

Title: COVID-19 and the Unraveling of Experimental Medicine - Part III

Authors: K. E. Thorp, James A. Thorp, Elise M. Thorp

References for COVID-19 vaccine associated complications

All 1,366 references for COVID-19 vaccine associated complications are listed by subject matter. All 1,366 references are hyperlinked here and are all published in peer-reviewed medical journals from the onset of the COVID-19 vaccinations on December 15, 2020 to March 15, 2022 (16 months).

Subject-wise segregation of 1,366 references		
COVID-19 Vaccine Published Complications Subject of Article(s)	Number of Publication(s)	Reference Numbers in the Hyperlink
Anaphylaxis	47	1 - 47
Antiphospholipid Antibodies	3	48 - 50
Arterial & Venous Thromboembolism	160	51 - 210
Arthritis	2	211 - 212
Auto-Immune Disorders	21	213 - 233
Autopsy Findings	11	234 - 244
Blood Disorders	10	245 - 254
Cancer	7	255 - 261
Cardiac Disease (Myocarditis / Pericarditis)	336	262 - 597
Cardiac Disease (other)	15	598 - 612
Dementia / Alzheimer's / Delirium	2	613 - 614
Encephalopathy & Neurological Injury	46	615 - 660
Eye Diseases	11	661 - 671
Facial Nerve Palsy	28	672 - 699
Gastroparesis	1	700
Guillain Barre Syndrome	51	701 - 751
Hearing Loss / Tinnitus	13	752 - 764
Hemolytic Uremic Syndrome	1	765
Hemorrhage	38	766 - 803
Hepatitis	19	804 - 822
Immune and DNA Impacts	7	823 - 829
Kidney / Urinary Disorders	23	830 - 852
Lung Disease	3	853 - 855
Lymphadenopathy	60	856 - 915
Multiple Sclerosis	1	916
Muscle Disorders	5	917 - 921
Prion Disease	1	922
Radiation Recall Syndrome	5	923 - 927
Rhabdomyolysis	12	928 - 939
Seizure Disorder	6	940 - 945
Shoulder / Musculoskeletal / Bursitis	7	946 - 952
Skin Reactions	41	953 - 993
Thyroid Disease	33	994 - 1026
Vaccine-Induced Thrombotic Thrombocytopenia	209	1027 - 1235
Varicella Zoster (Shingles) / Herpes	27	1236 - 1262
Vasculitis	48	1263 - 1310
Miscellaneous	56	1311 - 1366
TOTAL	1366	1 - 1366

1. Turner PJ, Ansotegui IJ, Campbell DE, et al. COVID-19 vaccine-associated anaphylaxis: A statement of the World Allergy Organization Anaphylaxis Committee. *World Allergy Organ J.* 2021 Feb;14(2):100517. doi: 10.1016/j.waojou.2021.100517. Epub 2021 Feb 3. PMID: 33558825; PMCID: PMC7857113. <https://www.sciencedirect.com/science/article/pii/S1939455121000119>.
2. Klimek L, Bergmann KC, Brehler R, et al. Practical handling of allergic reactions to COVID-19 vaccines: A position paper from German and Austrian Allergy Societies AeDA, DGAKI, GPA and ÖGAI. *Allergo J Int.* 2021 Apr 19:1-17. doi: 10.1007/s40629-021-00165-7. Epub ahead of print. PMID: 33898162; PMCID: PMC8054127. <https://www.ncbi.nlm.nih.gov/pubmed/33898162>
3. Klimek L, Novak N, Hamelmann E, et al. Severe allergic reactions after COVID-19 vaccination with the Pfizer/BioNTech vaccine in Great Britain and USA: Position statement of the German Allergy Societies: Medical Association of German Allergologists (AeDA), German Society for Allergology and Clinical Immunology (DGAKI) and Society for Pediatric Allergology and Environmental Medicine (GPA). *Allergo J Int.* 2021;30(2):51-55. doi: 10.1007/s40629-020-00160-4. Epub 2021 Feb 24. PMID: 33643776; PMCID: PMC7903024. <https://www.ncbi.nlm.nih.gov/pubmed/33643776>
4. Krantz MS, Stone CA Jr, Rolando LA, et al. An academic hospital experience screening mRNA COVID-19 vaccine risk using patient allergy history. *J Allergy Clin Immunol Pract.* 2021 Oct;9(10):3807-3810. doi: 10.1016/j.jaip.2021.07.010. Epub 2021 Jul 19. PMID: 34293499; PMCID: PMC8288228. <https://www.sciencedirect.com/science/article/pii/S2213219821007972>
5. Abi Zeid Daou C, Natout MA, El Hadi N. Biphasic anaphylaxis after exposure to the first dose of Pfizer-BioNTech COVID-19 mRNA vaccine. *J Med Virol.* 2021 Oct;93(10):6027-6029. doi: 10.1002/jmv.27109. Epub 2021 Jun 6. PMID: 34050949; PMCID: PMC8242856. <https://pubmed.ncbi.nlm.nih.gov/34050949/>
6. Warren CM, Snow TT, Lee AS, Shah MM, et al.. Assessment of Allergic and Anaphylactic Reactions to mRNA COVID-19 Vaccines With Confirmatory Testing in a US Regional Health System. *JAMA Netw Open.* 2021 Sep 1;4(9):e2125524. doi: 10.1001/jamanetworkopen.2021.25524. PMID: 34533570; PMCID: PMC8449279. <https://www.ncbi.nlm.nih.gov/pubmed/34533570>
7. Shimabukuro T, Nair N. Allergic Reactions Including Anaphylaxis After Receipt of the First Dose of Pfizer-BioNTech COVID-19 Vaccine. *JAMA.* 2021 Feb 23;325(8):780-781. doi: 10.1001/jama.2021.0600. PMID: 33475702. <https://pubmed.ncbi.nlm.nih.gov/33475702/>
8. Cabanillas B, Akdis CA, Novak N. Allergic reactions to the first COVID-19 vaccine: A potential role of polyethylene glycol? *Allergy.* 2021 Jun;76(6):1617-1618. doi: 10.1111/all.14711. PMID: 33320974. <https://pubmed.ncbi.nlm.nih.gov/33320974/>

9. de Vrieze J. Pfizer's vaccine raises allergy concerns. *Science*. 2021 Jan 1;371(6524):10-11. doi: 10.1126/science.371.6524.10. PMID: 33384356. <https://pubmed.ncbi.nlm.nih.gov/33384356/>
10. CDC COVID-19 Response Team; Food and Drug Administration. Allergic Reactions Including Anaphylaxis After Receipt of the First Dose of Pfizer-BioNTech COVID-19 Vaccine - United States, December 14-23, 2020. *MMWR Morb Mortal Wkly Rep*. 2021 Jan 15;70(2):46-51. doi: 10.15585/mmwr.mm7002e1. PMID: 33444297; PMCID: PMC7808711. <https://pubmed.ncbi.nlm.nih.gov/33444297/>
11. CDC COVID-19 Response Team; Food and Drug Administration. Allergic Reactions Including Anaphylaxis After Receipt of the First Dose of Moderna COVID-19 Vaccine - United States, December 21, 2020-January 10, 2021. *MMWR Morb Mortal Wkly Rep*. 2021 Jan 29;70(4):125-129. doi: 10.15585/mmwr.mm7004e1. PMID: 33507892; PMCID: PMC7842812. <https://pubmed.ncbi.nlm.nih.gov/33507892/>
12. Lee E, Lee YK, Kim TE, et al. Reports of anaphylaxis after coronavirus disease 2019 vaccination, South Korea, 26 February to 30 April 2021. *Euro Surveill*. 2021 Aug;26(33):2100694. doi: 10.2807/1560-7917.ES.2021.26.33.2100694. PMID: 34414880; PMCID: PMC8380974. <https://pubmed.ncbi.nlm.nih.gov/34414880/>
13. Shimabukuro TT, Cole M, Su JR. Reports of Anaphylaxis After Receipt of mRNA COVID-19 Vaccines in the US-December 14, 2020-January 18, 2021. *JAMA*. 2021 Mar 16;325(11):1101-1102. doi: 10.1001/jama.2021.1967. PMID: 33576785. <https://pubmed.ncbi.nlm.nih.gov/33576785/>
14. Arcolaci A, Bronte V, Zanoni G. Immunization practices and risk of anaphylaxis: a current update, comprehensive of COVID-19 vaccination data. *Curr Opin Allergy Clin Immunol*. 2021 Oct 1;21(5):418-425. doi: 10.1097/ACI.0000000000000769. PMID: 34269740. <https://pubmed.ncbi.nlm.nih.gov/34269740/>
15. Desai AP, Desai AP, Loomis GJ. Relationship between pre-existing allergies and anaphylactic reactions post mRNA COVID-19 vaccine administration. *Vaccine*. 2021 Jul 22;39(32):4407-4409. doi: 10.1016/j.vaccine.2021.06.058. Epub 2021 Jun 23. PMID: 34215453; PMCID: PMC8220987. <https://pubmed.ncbi.nlm.nih.gov/34215453/>
16. Erdeljic Turk V. Anaphylaxis associated with the mRNA COVID-19 vaccines: Approach to allergy investigation. *Clin Immunol*. 2021 Jun;227:108748. doi: 10.1016/j.clim.2021.108748. Epub 2021 Apr 28. PMID: 33932618; PMCID: PMC8080508. <https://pubmed.ncbi.nlm.nih.gov/33932618/>
17. Klimek L, Novak N, Hamelmann E, et al. Severe allergic reactions after COVID-19 vaccination with the Pfizer/BioNTech vaccine in Great Britain and USA: Position statement of the German Allergy Societies: Medical Association of German Allergologists (AeDA), German Society for Allergology and Clinical Immunology (DGAKI) and Society for Pediatric

- Allergy and Environmental Medicine (GPA). *Allergo J Int.* 2021;30(2):51-55. doi: 10.1007/s40629-020-00160-4. Epub 2021 Feb 24. PMID: 33643776; PMCID: PMC7903024. <https://pubmed.ncbi.nlm.nih.gov/33643776/>
18. Moghimi SM. Allergic Reactions and Anaphylaxis to LNP-Based COVID-19 Vaccines. *Mol Ther.* 2021 Mar 3;29(3):898-900. doi: 10.1016/j.ymthe.2021.01.030. Epub 2021 Feb 5. PMID: 33571463; PMCID: PMC7862013. <https://pubmed.ncbi.nlm.nih.gov/33571463/>
 19. Iguchi T, Umeda H, Kojima M, et al. Cumulative Adverse Event Reporting of Anaphylaxis After mRNA COVID-19 Vaccine (Pfizer-BioNTech) Injections in Japan: The First-Month Report. *Drug Saf.* 2021 Nov;44(11):1209-1214. doi: 10.1007/s40264-021-01104-9. Epub 2021 Aug 4. PMID: 34347278; PMCID: PMC8335977. <https://pubmed.ncbi.nlm.nih.gov/34347278/>
 20. Alnæs M, Storaas T, Sørensen M, et al. Covid-19-vaksiner gir økt risiko for anafylaksi [COVID-19 vaccines increase the risk of anaphylaxis]. *Tidsskr Nor Laegeforen.* 2021 Feb 16;141(4). Norwegian. doi: 10.4045/tidsskr.21.0109. PMID: 33685103. <https://pubmed.ncbi.nlm.nih.gov/33685103/>
 21. Abi Zeid Daou C, Natout MA, El Hadi N. Biphasic anaphylaxis after exposure to the first dose of Pfizer-BioNTech COVID-19 mRNA vaccine. *J Med Virol.* 2021 Oct;93(10):6027-6029. doi: 10.1002/jmv.27109. Epub 2021 Jun 6. PMID: 34050949; PMCID: PMC8242856. <https://pubmed.ncbi.nlm.nih.gov/34050949/>
 22. Blumenthal KG, Robinson LB, Camargo CA Jr, et al. Acute Allergic Reactions to mRNA COVID-19 Vaccines. *JAMA.* 2021 Apr 20;325(15):1562-1565. doi: 10.1001/jama.2021.3976. PMID: 33683290; PMCID: PMC7941251. <https://pubmed.ncbi.nlm.nih.gov/33683290/>
 23. Restivo V, Candore G, Barrale M, et al. Allergy to Polyethylenglicole of Anti-SARS CoV2 Vaccine Recipient: A Case Report of Young Adult Recipient and the Management of Future Exposure to SARS-CoV2. *Vaccines (Basel).* 2021 Apr 21;9(5):412. doi: 10.3390/vaccines9050412. PMID: 33919151; PMCID: PMC8143141. <https://pubmed.ncbi.nlm.nih.gov/33919151/>
 24. Hashimoto T, Ozaki A, Bhandari D, et al. High anaphylaxis rates following vaccination with the Pfizer BNT162b2 mRNA vaccine against COVID-19 in Japanese healthcare workers: a secondary analysis of initial post-approval safety data. *J Travel Med.* 2021 Oct 11;28(7):taab090. doi: 10.1093/jtm/taab090. PMID: 34128049; PMCID: PMC8344519. <https://pubmed.ncbi.nlm.nih.gov/34128049/>
 25. Arroliga ME, Dhanani K, Arroliga AC, et al. Allergic reactions and adverse events associated with administration of mRNA-based vaccines. A health-care system experience. *Allergy Asthma Proc.* 2021 Sep 1;42(5):395-399. doi: 10.2500/aap.2021.42.210069. PMID: 34474708; PMCID: PMC8677490. <https://pubmed.ncbi.nlm.nih.gov/34474708/>

26. Tuyls S, Van Der Brempt X, Faber M, et al. Allergic reactions to COVID-19 vaccines: statement of the Belgian Society for Allergy and Clinical Immunology (BelSACI). *Acta Clin Belg*. 2021 Apr 1;1:1-6. doi: 10.1080/17843286.2021.1909447. Epub ahead of print. PMID: 33792500. <https://www.tandfonline.com/doi/abs/10.1080/17843286.2021.1909447>
27. Kelso JM. IgE-mediated allergy to polyethylene glycol (PEG) as a cause of anaphylaxis to mRNA COVID-19 vaccines. *Clin Exp Allergy*. 2022 Jan;52(1):10-11. doi: 10.1111/cea.13995. Epub 2021 Sep 21. PMID: 34318537; PMCID: PMC8444836. <https://pubmed.ncbi.nlm.nih.gov/34318537/>
28. Phillips EJ. Allergic Reactions After COVID-19 Vaccination-Putting Risk Into Perspective. *JAMA Netw Open*. 2021 Aug 2;4(8):e2122326. doi: 10.1001/jamanetworkopen.2021.22326. PMID: 34463751. <https://pubmed.ncbi.nlm.nih.gov/34463751/>
29. Hatziantoniou S, Maltezou HC, Tsakris A, et al. Anaphylactic reactions to mRNA COVID-19 vaccines: A call for further study. *Vaccine*. 2021 May 6;39(19):2605-2607. doi: 10.1016/j.vaccine.2021.03.073. Epub 2021 Apr 6. PMID: 33846043; PMCID: PMC8023205. <https://pubmed.ncbi.nlm.nih.gov/33846043/188>.
30. Ring J, Worm M, Wollenberg A, et al. Risk of severe allergic reactions to COVID-19 vaccines among patients with allergic skin diseases - practical recommendations. A position statement of ETFAD with external experts. *J Eur Acad Dermatol Venereol*. 2021 Jun;35(6):e362-e365. doi: 10.1111/jdv.17237. Epub 2021 Apr 3. PMID: 33752263; PMCID: PMC8250791. <https://pubmed.ncbi.nlm.nih.gov/33752263/>
31. Klimek L, Novak N, Cabanillas B, et al. Allergenic components of the mRNA-1273 vaccine for COVID-19: Possible involvement of polyethylene glycol and IgG-mediated complement activation. *Allergy*. 2021 Nov;76(11):3307-3313. doi: 10.1111/all.14794. Epub 2021 Jun 17. PMID: 33657648; PMCID: PMC8013891. <https://pubmed.ncbi.nlm.nih.gov/33657648/>
32. Sellaturay P, Nasser S, Islam S, et al. Polyethylene glycol (PEG) is a cause of anaphylaxis to the Pfizer/BioNTech mRNA COVID-19 vaccine. *Clin Exp Allergy*. 2021 Jun;51(6):861-863. doi: 10.1111/cea.13874. Epub 2021 Apr 9. PMID: 33825239; PMCID: PMC8251011. <https://pubmed.ncbi.nlm.nih.gov/33825239/>
33. Park HJ, Montgomery JR, Boggs NA. Anaphylaxis After the Covid-19 Vaccine in a Patient With Cholinergic Urticaria. *Mil Med*. 2021 Apr 14:usab138. doi: 10.1093/milmed/usab138. Epub ahead of print. PMID: 33851711; PMCID: PMC8083203. <https://pubmed.ncbi.nlm.nih.gov/33851711/>
34. Laisuan W, Wongsu C, Chiewchalerm Sri C, et al. CoronaVac COVID-19 Vaccine-Induced Anaphylaxis: Clinical Characteristics and Revaccination Outcomes. *J Asthma Allergy*. 2021 Oct 7;14:1209-1215. doi: 10.2147/JAA.S333098. PMID: 34675550; PMCID: PMC8504472. <https://pubmed.ncbi.nlm.nih.gov/34675550/>.

35. Mayfield J, Bandi S, Ganti L, et al. Anaphylaxis after Moderna COVID-19 vaccine. *Ther Adv Vaccines Immunother*. 2021 Oct 28;9:25151355211048418. doi: 10.1177/25151355211048418. PMID: 34734159; PMCID: PMC8558796. <https://pubmed.ncbi.nlm.nih.gov/34734159/>.
36. Li L, Robinson LB, Patel R, et al. Association of Self-reported High-Risk Allergy History With Allergy Symptoms After COVID-19 Vaccination. *JAMA Netw Open*. 2021 Oct 1;4(10):e2131034. doi: 10.1001/jamanetworkopen.2021.31034. PMID: 34698847; PMCID: PMC8548941. <https://pubmed.ncbi.nlm.nih.gov/34698847/>
37. Somiya M, Mine S, Yasukawa K, et al. Sex differences in the incidence of anaphylaxis to LNP-mRNA COVID-19 vaccines. *Vaccine*. 2021 Jun 8;39(25):3313-3314. doi: 10.1016/j.vaccine.2021.04.066. Epub 2021 May 6. PMID: 34020815; PMCID: PMC8101867. <https://pubmed.ncbi.nlm.nih.gov/34020815/>
38. Shimabukuro T. Allergic reactions including anaphylaxis after receipt of the first dose of Pfizer-BioNTech COVID-19 vaccine - United States, December 14-23, 2020. *Am J Transplant*. 2021 Mar;21(3):1332-1337. doi: 10.1111/ajt.16516. PMID: 33641264; PMCID: PMC8013489. <https://pubmed.ncbi.nlm.nih.gov/33641264/>
39. Shimabukuro T. Allergic reactions including anaphylaxis after receipt of the first dose of Moderna COVID-19 vaccine - United States, December 21, 2020-January 10, 2021. *Am J Transplant*. 2021 Mar;21(3):1326-1331. doi: 10.1111/ajt.16517. PMID: 33641268; PMCID: PMC8013433. <https://pubmed.ncbi.nlm.nih.gov/33641268/>
40. Frank A, Radparvar S, Manasia A, et al. Prolonged Anaphylaxis to Pfizer Coronavirus Disease 2019 Vaccine: A Case Report and Mechanism of Action. *Crit Care Explor*. 2021 Apr 2;3(4):e0397. doi: 10.1097/CCE.0000000000000397. PMID: 33834172; PMCID: PMC8021358. <https://pubmed.ncbi.nlm.nih.gov/33834172/>
41. Lim XR, Leung BP, Ng CYL, et al. Pseudo-Anaphylactic Reactions to Pfizer BNT162b2 Vaccine: Report of 3 Cases of Anaphylaxis Post Pfizer BNT162b2 Vaccination. *Vaccines (Basel)*. 2021 Aug 31;9(9):974. doi: 10.3390/vaccines9090974. PMID: 34579211; PMCID: PMC8471482. <https://pubmed.ncbi.nlm.nih.gov/34579211/>
42. Pitlick MM, Park MA, Gonzalez-Estrada A, et al. Biphasic anaphylaxis after first dose of messenger RNA coronavirus disease 2019 vaccine with positive polysorbate 80 skin testing result. *Ann Allergy Asthma Immunol*. 2021 Oct;127(4):498-499. doi: 10.1016/j.anai.2021.07.020. Epub 2021 Jul 31. PMID: 34343674; PMCID: PMC8325373. <https://pubmed.ncbi.nlm.nih.gov/34343674/>
43. Abi Zeid Daou C, Natout MA, et al. Biphasic anaphylaxis after exposure to the first dose of Pfizer-BioNTech COVID-19 mRNA vaccine. *J Med Virol*. 2021 Oct;93(10):6027-6029. doi: 10.1002/jmv.27109. Epub 2021 Jun 6. PMID: 34050949; PMCID: PMC8242856. <https://pubmed.ncbi.nlm.nih.gov/34050949/>

44. Iguchi T, Umeda H, Kojima M, et al. Cumulative Adverse Event Reporting of Anaphylaxis After mRNA COVID-19 Vaccine (Pfizer-BioNTech) Injections in Japan: The First-Month Report. *Drug Saf.* 2021 Nov;44(11):1209-1214. doi: 10.1007/s40264-021-01104-9. Epub 2021 Aug 4. PMID: 34347278; PMCID: PMC8335977. <https://www.ncbi.nlm.nih.gov/pubmed/34347278>
45. CDC COVID-19 Response Team; Food and Drug Administration. Allergic Reactions Including Anaphylaxis After Receipt of the First Dose of Pfizer-BioNTech COVID-19 Vaccine - United States, December 14-23, 2020. *MMWR Morb Mortal Wkly Rep.* 2021 Jan 15;70(2):46-51. doi: 10.15585/mmwr.mm7002e1. PMID: 33444297; PMCID: PMC7808711. <https://www.ncbi.nlm.nih.gov/pubmed/33444297>
46. Abi Zeid Daou C, Natout MA, El Hadi N. Biphasic anaphylaxis after exposure to the first dose of Pfizer-BioNTech COVID-19 mRNA vaccine. *J Med Virol.* 2021 Oct;93(10):6027-6029. doi: 10.1002/jmv.27109. Epub 2021 Jun 6. PMID: 34050949; PMCID: PMC8242856. <https://pubmed.ncbi.nlm.nih.gov/34050949/>
47. Garvey LH, Nasser S. Anaphylaxis to the first COVID-19 vaccine: is polyethylene glycol (PEG) the culprit? *Br J Anaesth.* 2021 Mar;126(3):e106-e108. doi: 10.1016/j.bja.2020.12.020. Epub 2020 Dec 17. PMID: 33386124; PMCID: PMC7834677. <https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC7834677/>

Antiphospholipid Antibodies

48. Talotta R, Robertson ES. Antiphospholipid antibodies and risk of post-COVID-19 vaccination thrombophilia: The straw that breaks the camel's back? *Cytokine Growth Factor Rev.* 2021 Aug;60:52-60. doi: 10.1016/j.cytogfr.2021.05.001. Epub 2021 May 28. PMID: 34090785; PMCID: PMC8159713. <https://docs.google.com/document/d/1XzajasO8VMMnC3CdxSBKks1o7kiOLXFQ>
49. Moreno-Torres V, Gutiérrez Á, Valdenebro M, Ortega A, Cítores MJ, Montero E. Catastrophic antiphospholipid syndrome triggered by mRNA COVID-19 vaccine. *Clin Exp Rheumatol.* 2021 Dec 7. Epub ahead of print. PMID: 34874824.
50. Sato K, Anayama M, Sumi M, Kobayashi H. [Immune thrombocytopenia after BNT162b2 mRNA COVID-19 vaccination]. *Rinsho Ketsueki.* 2021;62(12):1688-1693. Japanese. doi: 10.11406/rinketsu.62.1688. PMID: 35022338.

Arterial & Venous Thromboembolism

51. Perry RJ, Tamborska A, Bhagteshwar S, et al. Cerebral venous thrombosis after COVID-19 vaccination in the UK: a multicentre cohort study: [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(21\)01608-1/](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(21)01608-1/)

52. Marcucci R, Marietta M. Vaccine-induced thrombotic thrombocytopenia: the elusive link between thrombosis and adenovirus-based SARS-CoV-2 vaccines. *Intern Emerg Med*. 2021 Aug;16(5):1113-1119. doi: 10.1007/s11739-021-02793-x. Epub 2021 Jun 30. PMID: 34191218; PMCID: PMC8243058.
53. Esba LCA, Al Jeraisy M. Reported adverse effects following COVID-19 vaccination at a tertiary care hospital, focus on cerebral venous sinus thrombosis (CVST). *Expert Rev Vaccines*. 2021 Aug;20(8):1037-1042. doi: 10.1080/14760584.2021.1940145. Epub 2021 Jun 17. PMID: 34092166; PMCID: PMC8220435. <https://pubmed.ncbi.nlm.nih.gov/34092166/>
54. Andraska EA, Kulkarni R, Chaudhary M, et al. Three cases of acute venous thromboembolism in females after vaccination for coronavirus disease 2019. *J Vasc Surg Venous Lymphat Disord*. 2022 Jan;10(1):14-17. doi: 10.1016/j.jvsv.2021.07.009. Epub 2021 Aug 2. PMID: 34352418; PMCID: PMC8327605. <https://www.sciencedirect.com/science/article/pii/S2213333X21003929>
55. Tajstra M, Jaroszewicz J, Gąsior M. Acute Coronary Tree Thrombosis After Vaccination for COVID-19. *JACC Cardiovasc Interv*. 2021 May 10;14(9):e103-e104. doi: 10.1016/j.jcin.2021.03.003. PMID: 33958175; PMCID: PMC8092130. <https://www.sciencedirect.com/science/article/abs/pii/S1936879821003988>
56. See I, Su JR, Lale A, et al. US Case Reports of Cerebral Venous Sinus Thrombosis With Thrombocytopenia After Ad26.COV2.S Vaccination, March 2 to April 21, 2021. *JAMA*. 2021 Jun 22;325(24):2448-2456. doi: 10.1001/jama.2021.7517. PMID: 33929487; PMCID: PMC8087975. <https://pubmed.ncbi.nlm.nih.gov/33929487/>
57. Öcal O, Stecher SS, Wildgruber M. Portal vein thrombosis associated with ChAdOx1 nCov-19 vaccination. *Lancet Gastroenterol Hepatol*. 2021 Aug;6(8):676. doi: 10.1016/S2468-1253(21)00197-7. Epub 2021 Jun 9. PMID: 34115963; PMCID: PMC8186953. [https://www.thelancet.com/journals/langas/article/PIIS2468-1253\(21\)00197-7/](https://www.thelancet.com/journals/langas/article/PIIS2468-1253(21)00197-7/)
58. Sharifian-Dorche M, Bahmanyar M, Sharifian-Dorche A, et al. Vaccine-induced immune thrombotic thrombocytopenia and cerebral venous sinus thrombosis post COVID-19 vaccination; a systematic review. *J Neurol Sci*. 2021 Sep 15;428:117607. doi: 10.1016/j.jns.2021.117607. Epub 2021 Aug 3. PMID: 34365148; PMCID: PMC8330139. <https://www.sciencedirect.com/science/article/pii/S0022510X21003014>
59. Gresele P, Marietta M, Ageno W, et al. Management of cerebral and splanchnic vein thrombosis associated with thrombocytopenia in subjects previously vaccinated with Vaxzevria (AstraZeneca): a position statement from the Italian Society for the Study of Haemostasis and Thrombosis (SISST). *Blood Transfus*. 2021 Jul;19(4):281-283. doi: 10.2450/2021.0117-21. Epub 2021 Apr 15. PMID: 33871350; PMCID: PMC8297668. <https://pubmed.ncbi.nlm.nih.gov/33871350/>

60. Long B, Bridwell R, Gottlieb M. Thrombosis with thrombocytopenia syndrome associated with COVID-19 vaccines. *Am J Emerg Med.* 2021 Nov;49:58-61. doi: 10.1016/j.ajem.2021.05.054. Epub 2021 May 25. PMID: 34062319; PMCID: PMC8143907. <https://www.sciencedirect.com/science/article/abs/pii/S0735675721004381>
61. Gupta A, Sardar P, Cash ME, et al. Covid-19 vaccine- induced thrombosis and thrombocytopenia-a commentary on an important and practical clinical dilemma. *Prog Cardiovasc Dis.* 2021 Jul-Aug;67:105-107. doi: 10.1016/j.pcad.2021.05.001. Epub 2021 May 18. PMID: 34019911; PMCID: PMC8130591. <https://www.sciencedirect.com/science/article/abs/pii/S0033062021000505>
62. Cattaneo M. Thrombosis with Thrombocytopenia Syndrome associated with viral vector COVID-19 vaccines. *Eur J Intern Med.* 2021 Jul;89:22-24. doi: 10.1016/j.ejim.2021.05.031. Epub 2021 May 25. PMID: 34092488; PMCID: PMC8148431. <https://www.sciencedirect.com/science/article/abs/pii/S0953620521001904>
63. Elrashdy F, Tambuwala MM, Hassan SS, et al. Autoimmunity roots of the thrombotic events after COVID-19 vaccination. *Autoimmun Rev.* 2021 Nov;20(11):102941. doi: 10.1016/j.autrev.2021.102941. Epub 2021 Sep 9. PMID: 34508917; PMCID: PMC8426137. <https://www.sciencedirect.com/science/article/abs/pii/S1568997221002160>
64. Greinacher A, Thiele T, Warkentin TE, Wet al. Thrombotic Thrombocytopenia after ChAdOx1 nCov-19 Vaccination. *N Engl J Med.* 2021 Jun 3;384(22):2092-2101. doi: 10.1056/NEJMoa2104840. Epub 2021 Apr 9. PMID: 33835769; PMCID: PMC8095372. https://www.nejm.org/doi/full/10.1056/NEJMoa2104840?query=recirc_curatedRelated_article
65. Pomara C, Sessa F, Ciaccio M, et al. Post-mortem findings in vaccine-induced thrombotic thombocytopenia. *Haematologica.* 2021 Aug 1;106(8):2291-2293. doi: 10.3324/haematol.2021.279075. PMID: 34011138; PMCID: PMC8327725. <https://haematologica.org/article/view/haematol.2021.279075>
66. Douxfils J, Favresse J, Dogné JM, et al. Hypotheses behind the very rare cases of thrombosis with thrombocytopenia syndrome after SARS-CoV-2 vaccination. *Thromb Res.* 2021 Jul;203:163-171. doi: 10.1016/j.thromres.2021.05.010. Epub 2021 May 15. PMID: 34029848; PMCID: PMC8123522. <https://www.sciencedirect.com/science/article/abs/pii/S0896841121000895>
67. Dias L, Soares-Dos-Reis R, Meira J, et al. Cerebral Venous Thrombosis after BNT162b2 mRNA SARS-CoV-2 vaccine. *J Stroke Cerebrovasc Dis.* 2021 Aug;30(8):105906. doi: 10.1016/j.jstrokecerebrovasdis.2021.105906. Epub 2021 May 25. PMID: 34111775; PMCID:

PMC8148614.: <https://www.sciencedirect.com/science/article/abs/pii/S1052305721003098>

68. Melas N. Portal vein thrombosis occurring after the first dose of SARS-CoV-2 mRNA vaccine in a patient with antiphospholipid syndrome". 2021 dec. Science Direct. Vol 5. : <https://www.sciencedirect.com/science/article/pii/S2666572721000389>
69. Clark RT, Johnson L, Billotti J, Fet al. Early Outcomes of Bivalirudin Therapy for Thrombotic Thrombocytopenia and Cerebral Venous Sinus Thrombosis After Ad26.COV2.S Vaccination. Ann Emerg Med. 2021 Oct;78(4):511-514. doi: 10.1016/j.annemergmed.2021.04.035. Epub 2021 Jul 3. PMID: 34226070; PMCID: PMC8253724. <https://www.sciencedirect.com/science/article/pii/S0196064421003425>
70. Lee EJ, Lee AI. Cerebral venous sinus thrombosis after vaccination: the UK experience. Lancet. 2021 Sep 25;398(10306):1107-1109. doi: 10.1016/S0140-6736(21)01788-8. Epub 2021 Aug 6. PMID: 34370974; PMCID: PMC8346246.: [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(21\)01788-8/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(21)01788-8/fulltext)
71. Schultz NH, Sørvoll IH, Michelsen AE, et al. Thrombosis and Thrombocytopenia after ChAdOx1 nCoV-19 Vaccination. N Engl J Med. 2021 Jun 3;384(22):2124-2130. doi: 10.1056/NEJMoa2104882. Epub 2021 Apr 9. PMID: 33835768; PMCID: PMC8112568. https://www.nejm.org/doi/full/10.1056/NEJMoa2104882?query=recirc_curatedRelated_article
72. Dutta A, Ghosh R, Bhattacharya D, et al. Anti-PF4 antibody negative cerebral venous sinus thrombosis without thrombocytopenia following immunization with COVID-19 vaccine in an elderly non-comorbid Indian male, managed with conventional heparin-warfarin based anticoagulation. Diabetes Metab Syndr. 2021 Jul-Aug;15(4):102184. doi: 10.1016/j.dsx.2021.06.021. Epub 2021 Jun 24. PMID: 34186376; PMCID: PMC8223002. <https://www.sciencedirect.com/science/article/pii/S1871402121002046>
73. Dalan R, Boehm BO. Thrombosis post COVID-19 vaccinations: Potential link to ACE pathways. Thromb Res. 2021 Oct;206:137-138. doi: 10.1016/j.thromres.2021.08.018. Epub 2021 Aug 28. PMID: 34479129; PMCID: PMC8397505. <https://www.sciencedirect.com/science/article/pii/S0049384821004369>
74. Bikdeli B, Chatterjee S, Arora S, et al. Cerebral Venous Sinus Thrombosis in the U.S. Population, After Adenovirus-Based SARS-CoV-2 Vaccination, and After COVID-19. J Am Coll Cardiol. 2021 Jul 27;78(4):408-411. doi: 10.1016/j.jacc.2021.06.001. Epub 2021 Jun 8. PMID: 34116145; PMCID: PMC8186447. <https://www.sciencedirect.com/science/article/pii/S0735109721051949>
75. Guan CY, Tsai SH, Fan JS, et al. Middle-age Asian male with cerebral venous thrombosis after COVID-19 AstraZeneca vaccination. Am J Emerg Med. 2022 Jan;51:427.e3-427.e4. doi:

- 10.1016/j.ajem.2021.07.011. Epub 2021 Jul 8. PMID: 34274191; PMCID: PMC8265178. <https://www.sciencedirect.com/science/article/pii/S0735675721005714>
76. Mehta PR, Apap Mangion S, Bengler M, et al. Cerebral venous sinus thrombosis and thrombocytopenia after COVID-19 vaccination - A report of two UK cases. *Brain Behav Immun.* 2021 Jul;95:514-517. doi: 10.1016/j.bbi.2021.04.006. Epub 2021 Apr 20. PMID: 33857630; PMCID: PMC8056834. <https://www.sciencedirect.com/science/article/abs/pii/S088915912100163X>
77. Grupo de trabajo multidisciplinar de FACME sobre el manejo de la trombosis venosa cerebral relacionada con la vacunación frente a COVID-19. Recomendaciones diagnóstico-terapéuticas del grupo de trabajo de expertos de FACME ad-hoc sobre el manejo de la trombosis venosa cerebral relacionada con la vacunación frente a COVID-19 [Diagnostic and treatment recommendations from the FACME ad-hoc expert working group on the management of cerebral venous sinus thrombosis associated with COVID-19 vaccination]. *Neurologia.* 2021 Jul-Aug;36(6):451-461. Spanish. doi: 10.1016/j.nrl.2021.05.001. Epub 2021 May 6. PMID: 34049738; PMCID: PMC8101796. <https://www.sciencedirect.com/science/article/pii/S0213485321000839>
78. Wolf ME, Luz B, Niehaus L, et al. Thrombocytopenia and Intracranial Venous Sinus Thrombosis after "COVID-19 Vaccine AstraZeneca" Exposure. *J Clin Med.* 2021 Apr 9;10(8):1599. doi: 10.3390/jcm10081599. PMID: 33918932; PMCID: PMC8069989. <https://pubmed.ncbi.nlm.nih.gov/33918932/>
79. Smadja DM, Yue QY, Chocron R, et al. Vaccination against COVID-19: insight from arterial and venous thrombosis occurrence using data from VigiBase. *Eur Respir J.* 2021 Jul 1;58(1):2100956. doi: 10.1183/13993003.00956-2021. PMID: 33863748; PMCID: PMC8051185. <https://pubmed.ncbi.nlm.nih.gov/33863748/>
80. Schulz JB, Berlit P, Diener HC, et al. COVID-19 Vaccine-Associated Cerebral Venous Thrombosis in Germany. *Ann Neurol.* 2021 Oct;90(4):627-639. doi: 10.1002/ana.26172. Epub 2021 Aug 23. PMID: 34288044; PMCID: PMC8427115. <https://onlinelibrary.wiley.com/doi/10.1002/ana.26172>
81. Fan BE, Shen JY, Lim XR, et al. Cerebral venous thrombosis post BNT162b2 mRNA SARS-CoV-2 vaccination: A black swan event. *Am J Hematol.* 2021 Sep 1;96(9):E357-E361. doi: 10.1002/ajh.26272. Epub 2021 Jun 26. PMID: 34133027; PMCID: PMC8420211. <https://pubmed.ncbi.nlm.nih.gov/34133027/>
82. Ciccone A, Zanotti B; working group on cerebral venous thrombosis after COVID-19 vaccination. The importance of recognizing cerebral venous thrombosis following anti-COVID-19 vaccination. *Eur J Intern Med.* 2021 Jul;99:115-117. doi: 10.1016/j.ejim.2021.05.006. Epub 2021 May 10. PMID: 34001390; PMCID: PMC8108377. <https://pubmed.ncbi.nlm.nih.gov/34001390/>

83. Sangli S, Virani A, Cheronis N, et al. Thrombosis With Thrombocytopenia After the Messenger RNA-1273 Vaccine. *Ann Intern Med.* 2021 Oct;174(10):1480-1482. doi: 10.7326/L21-0244. Epub 2021 Jun 29. PMID: 34181446; PMCID: PMC8251935. <https://pubmed.ncbi.nlm.nih.gov/34181446/>
84. Cari L, Fiore P, Naghavi Alhosseini M, et al. Blood clots and bleeding events following BNT162b2 and ChAdOx1 nCoV-19 vaccine: An analysis of European data. *J Autoimmun.* 2021 Aug;122:102685. doi: 10.1016/j.jaut.2021.102685. Epub 2021 Jun 23. PMID: 34174723; PMCID: PMC8220408. <https://pubmed.ncbi.nlm.nih.gov/34174723/>
85. Long B, Bridwell R, Gottlieb M. Thrombosis with thrombocytopenia syndrome associated with COVID-19 vaccines. *Am J Emerg Med.* 2021 Nov;49:58-61. doi: 10.1016/j.ajem.2021.05.054. Epub 2021 May 25. PMID: 34062319; PMCID: PMC8143907. <https://www.sciencedirect.com/science/article/abs/pii/S0735675721004381>.
86. Dutta A, Ghosh R, Bhattacharya D, et al. Anti-PF4 antibody negative cerebral venous sinus thrombosis without thrombocytopenia following immunization with COVID-19 vaccine in an elderly non-comorbid Indian male, managed with conventional heparin-warfarin based anticoagulation. *Diabetes Metab Syndr.* 2021 Jul-Aug;15(4):102184. doi: 10.1016/j.dsx.2021.06.021. Epub 2021 Jun 24. PMID: 34186376; PMCID: PMC8223002. <https://www.sciencedirect.com/science/article/pii/S1871402121002046>.
87. Cari L, Fiore P, Naghavi Alhosseini M, et al. Blood clots and bleeding events following BNT162b2 and ChAdOx1 nCoV-19 vaccine: An analysis of European data. *J Autoimmun.* 2021 Aug;122:102685. doi: 10.1016/j.jaut.2021.102685. Epub 2021 Jun 23. PMID: 34174723; PMCID: PMC8220408. <https://www.sciencedirect.com/science/article/pii/S0896841121000937>.
88. D'Agostino V, Caranci F, Negro A, et al. A Rare Case of Cerebral Venous Thrombosis and Disseminated Intravascular Coagulation Temporally Associated to the COVID-19 Vaccine Administration. *J Pers Med.* 2021 Apr 8;11(4):285. doi: 10.3390/jpm11040285. PMID: 33917902; PMCID: PMC8068274. <https://pubmed.ncbi.nlm.nih.gov/33917902/>
89. Al-Maqbali JS, Al Rasbi S, Kashoub MS, et al. A 59-Year-Old Woman with Extensive Deep Vein Thrombosis and Pulmonary Thromboembolism 7 Days Following a First Dose of the Pfizer-BioNTech BNT162b2 mRNA COVID-19 Vaccine. *Am J Case Rep.* 2021 Jun 12;22:e932946. doi: 10.12659/AJCR.932946. PMID: 34117206; PMCID: PMC8212841. <https://pubmed.ncbi.nlm.nih.gov/34117206/>
90. Geeraerts T, Montastruc F, Bonneville F, et al. Oxford-AstraZeneca COVID-19 vaccine-induced cerebral venous thrombosis and thrombocytopenia: A missed opportunity for a rapid return of experience. *Anaesth Crit Care Pain Med.* 2021 Aug;40(4):100889. doi: 10.1016/j.accpm.2021.100889. Epub 2021 May 24. PMID: 34033927; PMCID: PMC8141689. <https://pubmed.ncbi.nlm.nih.gov/34033927/>

91. Wang RL, Chiang WF, Shyu HY, et al. COVID-19 vaccine-associated acute cerebral venous thrombosis and pulmonary artery embolism. *QJM*. 2021 Nov 5;114(7):506-507. doi: 10.1093/qjmed/hcab185. PMID: 34247246; PMCID: PMC8344576. <https://pubmed.ncbi.nlm.nih.gov/34247246/>.
92. Barral M, Arrive L, El Mouhadi-Barnier S, et al. Thromboaspiration and fibrinolysis infusion for portomesenteric thrombosis after AstraZeneca COVID-19 vaccine administration. *Intensive Care Med*. 2021 Sep;47(9):1034-1036. doi: 10.1007/s00134-021-06458-3. Epub 2021 Jun 16. PMID: 34132839; PMCID: PMC8206184. <https://pubmed.ncbi.nlm.nih.gov/34132839/>
93. Wiedmann M, Skattør T, Stray-Pedersen A, et al. Vaccine Induced Immune Thrombotic Thrombocytopenia Causing a Severe Form of Cerebral Venous Thrombosis With High Fatality Rate: A Case Series. *Front Neurol*. 2021 Jul 30;12:721146. doi: 10.3389/fneur.2021.721146. PMID: 34393988; PMCID: PMC8363077. <https://pubmed.ncbi.nlm.nih.gov/34393988/>.
94. Marchandot B, Carmona A, Trimaille A, et al. Procoagulant microparticles: a possible link between vaccine-induced immune thrombocytopenia (VITT) and cerebral sinus venous thrombosis. *J Thromb Thrombolysis*. 2021 Oct;52(3):689-691. doi: 10.1007/s11239-021-02505-4. Epub 2021 Jun 15. PMID: 34129181; PMCID: PMC8204296. <https://pubmed.ncbi.nlm.nih.gov/34129181/>.
95. Gras-Champel V, Liabeuf S, Baud M, et al. Atypical thrombosis associated with VaxZevria® (AstraZeneca) vaccine: Data from the French Network of Regional Pharmacovigilance Centres. *Therapie*. 2021 Jul-Aug;76(4):369-373. doi: 10.1016/j.therap.2021.05.007. Epub 2021 May 19. PMID: 34083026; PMCID: PMC8165560. <https://pubmed.ncbi.nlm.nih.gov/34083026/>.
96. Wang RL, Chiang WF, Shyu HY, et al. COVID-19 vaccine-associated acute cerebral venous thrombosis and pulmonary artery embolism. *QJM*. 2021 Nov 5;114(7):506-507. doi: 10.1093/qjmed/hcab185. PMID: 34247246; PMCID: PMC8344576. <https://pubmed.ncbi.nlm.nih.gov/34247246/>.
97. Taylor P, Allen L, Shrikrishnapalasuriyar N, et al. Vaccine-induced thrombosis and thrombocytopenia with bilateral adrenal haemorrhage. *Clin Endocrinol (Oxf)*. 2021 Jul 8:10.1111/cen.14548. doi: 10.1111/cen.14548. Epub ahead of print. PMID: 34235757; PMCID: PMC8444929. <https://pubmed.ncbi.nlm.nih.gov/34235757/>.
98. Chen YA, Huang HY, Wu SH, et al. Thrombosis of the palmar digital vein after Oxford-AstraZeneca COVID-19 vaccination. *Int J Dermatol*. 2021 Nov;60(11):e469-e471. doi: 10.1111/ijd.15897. Epub 2021 Sep 2. PMID: 34473841; PMCID: PMC8652811. <https://pubmed.ncbi.nlm.nih.gov/34473841/>.
99. Ramessur R, Saffar N, Czako B, et al. Cutaneous thrombosis associated with skin necrosis following Oxford-AstraZeneca COVID-19 vaccination. *Clin Exp Dermatol*. 2021

Dec;46(8):1610-1612. doi: 10.1111/ced.14819. Epub 2021 Jul 29. PMID: 34189756; PMCID: PMC8444634. <https://pubmed.ncbi.nlm.nih.gov/34189756/>

100. Kow CS, Hasan SS. Cerebral Venous Thrombosis following COVID-19 Vaccination. *J Stroke Cerebrovasc Dis.* 2021 Oct;30(10):105866. doi: 10.1016/j.jstrokecerebrovasdis.2021.105866. Epub 2021 May 10. PMID: 34045111; PMCID: PMC8108371. <https://pubmed.ncbi.nlm.nih.gov/34045111/>.
101. Baldi I, Azzolina D, Francavilla A, et al. Thrombotic Events after COVID-19 Vaccination in the Over-50s: Results from a Population-Based Study in Italy. *Vaccines (Basel).* 2021 Nov 10;9(11):1307. doi: 10.3390/vaccines9111307. PMID: 34835237; PMCID: PMC8620372. <https://pubmed.ncbi.nlm.nih.gov/34835237/>
102. Mendes-de-Almeida DP, Martins-Gonçalves R, Morato-Santos R, et al. Intracerebral hemorrhage associated with vaccine-induced thrombotic thrombocytopenia following ChAdOx1 nCOVID-19 vaccine in a pregnant woman. *Haematologica.* 2021 Nov 1;106(11):3025-3028. doi: 10.3324/haematol.2021.279407. PMID: 34261297; PMCID: PMC8561298. <https://pubmed.ncbi.nlm.nih.gov/34261297/>
103. Ashrani AA, Crusan DJ, Petterson T, et al. Age- and Sex-Specific Incidence of Cerebral Venous Sinus Thrombosis Associated With Ad26.COVS COVID-19 Vaccination. *JAMA Intern Med.* 2022 Jan 1;182(1):80-83. doi: 10.1001/jamainternmed.2021.6352. PMID: 34724036; PMCID: PMC8561428. <https://pubmed.ncbi.nlm.nih.gov/34724036/>.
104. Palaiodimou L, Stefanou MI, Katsanos AH, et al. Cerebral Venous Sinus Thrombosis and Thrombotic Events After Vector-Based COVID-19 Vaccines: A Systematic Review and Meta-analysis. *Neurology.* 2021 Nov 23;97(21):e2136-e2147. doi: 10.1212/WNL.0000000000012896. Epub 2021 Oct 5. PMID: 34610990. <https://pubmed.ncbi.nlm.nih.gov/34610990/>.
105. von Hundelshausen P, Lorenz R, Siess W, et al. Vaccine-Induced Immune Thrombotic Thrombocytopenia (VITT): Targeting Pathomechanisms with Bruton Tyrosine Kinase Inhibitors. *Thromb Haemost.* 2021 Nov;121(11):1395-1399. doi: 10.1055/a-1481-3039. Epub 2021 Apr 13. PMID: 33851389. <https://pubmed.ncbi.nlm.nih.gov/33851389/>
106. Sessa M, Kragholm K, Hviid A, et al. Thromboembolic events in younger women exposed to Pfizer-BioNTech or Moderna COVID-19 vaccines. *Expert Opin Drug Saf.* 2021 Nov;20(11):1451-1453. doi: 10.1080/14740338.2021.1955101. Epub 2021 Jul 26. PMID: 34264151; PMCID: PMC8330010. <https://pubmed.ncbi.nlm.nih.gov/34264151/>
107. Soltani Hekmat A, Javanmardi K. Possible Risk of Thrombotic Events following Oxford-AstraZeneca COVID-19 Vaccination in Women Receiving Estrogen. *Biomed Res Int.* 2021 Oct 25;2021:7702863. doi: 10.1155/2021/7702863. PMID: 34734086; PMCID: PMC8560237. <https://pubmed.ncbi.nlm.nih.gov/34734086/>

108. Mungmunpantipantip R, Wiwanitkit V. Thrombosis After Adenovirus-Vectored COVID-19 Vaccination: A Concern on Underlying Illness. *Clin Appl Thromb Hemost*. 2021 Jan-Dec;27:10760296211060446. doi: 10.1177/10760296211060446. PMID: 34755555; PMCID: PMC8586168.: <https://pubmed.ncbi.nlm.nih.gov/34755555/>
109. von Hundelshausen P, Lorenz R, Siess W, et al. Vaccine-Induced Immune Thrombotic Thrombocytopenia (VITT): Targeting Pathomechanisms with Bruton Tyrosine Kinase Inhibitors. *Thromb Haemost*. 2021 Nov;121(11):1395-1399. doi: 10.1055/a-1481-3039. Epub 2021 Apr 13. PMID: 33851389. <https://pubmed.ncbi.nlm.nih.gov/33851389/>
110. Yocum A, Simon EL. Thrombotic Thrombocytopenic Purpura after Ad26.COV2-S Vaccination. *Am J Emerg Med*. 2021 Nov;49:441.e3-441.e4. doi: 10.1016/j.ajem.2021.05.001. Epub 2021 May 4. PMID: 33980419; PMCID: PMC8095021. <https://pubmed.ncbi.nlm.nih.gov/33980419/>
111. Sessa M, Kragholm K, Hviid A, et al. Thromboembolic events in younger women exposed to Pfizer-BioNTech or Moderna COVID-19 vaccines. *Expert Opin Drug Saf*. 2021 Nov;20(11):1451-1453. doi: 10.1080/14740338.2021.1955101. Epub 2021 Jul 26. PMID: 34264151; PMCID: PMC8330010. <https://pubmed.ncbi.nlm.nih.gov/34264151/>
112. Soltani Hekmat A, Javanmardi K. Possible Risk of Thrombotic Events following Oxford-AstraZeneca COVID-19 Vaccination in Women Receiving Estrogen. *Biomed Res Int*. 2021 Oct 25;2021:7702863. doi: 10.1155/2021/7702863. PMID: 34734086; PMCID: PMC8560237. <https://pubmed.ncbi.nlm.nih.gov/34734086/>
113. Gresele P, Momi S, Marcucci R, et al. Interactions of adenoviruses with platelets and coagulation and the vaccine-induced immune thrombotic thrombocytopenia syndrome. *Haematologica*. 2021 Dec 1;106(12):3034-3045. doi: 10.3324/haematol.2021.279289. PMID: 34407607; PMCID: PMC8634187. <https://pubmed.ncbi.nlm.nih.gov/34407607/>
114. Waqar SHB, Khan AA, Memon S. Thrombotic thrombocytopenic purpura: a new menace after COVID bnt162b2 vaccine. *Int J Hematol*. 2021 Nov;114(5):626-629. doi: 10.1007/s12185-021-03190-y. Epub 2021 Jul 15. PMID: 34264514; PMCID: PMC8280631.: <https://pubmed.ncbi.nlm.nih.gov/34264514/>.
115. Hasegawa T, Yazaki Y. Unusual Site of Deep Vein Thrombosis After mRNA Coronavirus Disease-2019 (COVID-19) Vaccination. *Circ J*. 2021 Nov 27. doi: 10.1253/circj.CJ-21-0882. Epub ahead of print. PMID: 34840204. <https://pubmed.ncbi.nlm.nih.gov/34840204/>
116. Gabarin N, Patterson S, Pai M, et al. Venous Thromboembolism and Mild Thrombocytopenia after ChAdOx1 nCoV-19 Vaccination. *Thromb Haemost*. 2021 Dec;121(12):1677-1680. doi: 10.1055/a-1585-6182. Epub 2021 Aug 12. PMID: 34384129; PMCID: PMC8632250. <https://pubmed.ncbi.nlm.nih.gov/34384129/>.

117. Mungmunpantipantip R, Wiwanitkit V. Thromboses of major arteries and ChAdOx1 nCov-19 vaccination. *Neurol Res Pract*. 2021 Nov 29;3(1):61. doi: 10.1186/s42466-021-00160-x. PMID: 34839830; PMCID: PMC8627790. <https://pubmed.ncbi.nlm.nih.gov/34839830/>
118. Andraska EA, Kulkarni R, Chaudhary M, et al. Three cases of acute venous thromboembolism in females after vaccination for coronavirus disease 2019. *J Vasc Surg Venous Lymphat Disord*. 2022 Jan;10(1):14-17. doi: 10.1016/j.jvsv.2021.07.009. Epub 2021 Aug 2. PMID: 34352418; PMCID: PMC8327605. <https://pubmed.ncbi.nlm.nih.gov/34352418/>
119. Crossette-Thambiah C, Pericleous C, Asmar N, et al. Clinical and biological features of cerebral venous sinus thrombosis following ChAdOx1 nCov-19 vaccination. *J Neurol Neurosurg Psychiatry*. 2021 Sep 29;jnnp-2021-327340. doi: 10.1136/jnnp-2021-327340. Epub ahead of print. PMID: 34588182. <https://jnnp.bmj.com/content/early/2021/09/29/jnnp-2021-327340>.
120. Zur-Wyrozumska K. CAd26.COV2-S vaccination can reveal inherited thrombophilia: a case of massive cerebral venous sinus thrombosis in a young man with normal platelet count. *Pol Arch Intern Med*. 2022 Jan 28;132(1). doi: 10.20452/pamw.16114. Epub 2021 Oct 11. PMID: 34632750. <https://pubmed.ncbi.nlm.nih.gov/34632750/>
121. Ambrosetti M, Pontali E. COVID-19 vaccine-induced thrombosis. *Int J Tuberc Lung Dis*. 2021 Sep 1;25(9):691-692. doi: 10.5588/ijtld.21.0389. PMID: 34802488. <https://pubmed.ncbi.nlm.nih.gov/34802488/>.
122. Ostrowski SR, Sogaard OS, Tolstrup M, et al. Inflammation and Platelet Activation After COVID-19 Vaccines - Possible Mechanisms Behind Vaccine-Induced Immune Thrombocytopenia and Thrombosis. *Front Immunol*. 2021 Nov 23;12:779453. doi: 10.3389/fimmu.2021.779453. PMID: 34887867; PMCID: PMC8649717. <https://pubmed.ncbi.nlm.nih.gov/34887867/>.
123. Hinton J, Briosa E, Gala A, Corbett S. mRNA COVID-19 Vaccine-Related Anaphylactoid Reaction and Coronary Thrombosis. *Mayo Clin Proc*. 2021 Dec;96(12):3182-3183. doi: 10.1016/j.mayocp.2021.10.010. Epub 2021 Oct 22. PMID: 34863404; PMCID: PMC8531274. <https://pubmed.ncbi.nlm.nih.gov/34863404/>.
124. Geeraerts T, Montastruc F, Bonneville F, et al. Oxford-AstraZeneca COVID-19 vaccine-induced cerebral venous thrombosis and thrombocytopaenia: A missed opportunity for a rapid return of experience. *Anaesth Crit Care Pain Med*. 2021 Aug;40(4):100889. doi: 10.1016/j.accpm.2021.100889. Epub 2021 May 24. PMID: 34033927; PMCID: PMC8141689. <https://www.sciencedirect.com/science/article/pii/S235255682100093X>
125. Anderson A, Seddon M, Shahzad K, et al. Post-COVID-19 vaccination occurrence of splenic infarction due to arterial thrombosis. *BMJ Case Rep*. 2021 Dec 7;14(12):e243846. doi: 10.1136/bcr-2021-243846. PMID: 34876440; PMCID: PMC8655567. <https://pubmed.ncbi.nlm.nih.gov/34876440/>

126. Haakonsen HB, Nystedt A. Deep vein thrombosis more than two weeks after vaccination against COVID-19. *Tidsskr Nor Laegeforen*. 2021 Apr 28;141. English, Norwegian. doi: 10.4045/tidsskr.21.0274. PMID: 33928773. <https://pubmed.ncbi.nlm.nih.gov/33928773/>
127. Braun T, Viard M, Juenemann M, et al. Case Report: Take a Second Look: Covid-19 Vaccination-Related Cerebral Venous Thrombosis and Thrombotic Thrombocytopenia Syndrome. *Front Neurol*. 2021 Nov 22;12:763049. doi: 10.3389/fneur.2021.763049. PMID: 34880826; PMCID: PMC8645635. <https://pubmed.ncbi.nlm.nih.gov/34880826/>
128. Greinacher A, Selleng K, Palankar R, et al. Insights in ChAdOx1 nCoV-19 vaccine-induced immune thrombotic thrombocytopenia. *Blood*. 2021 Dec 2;138(22):2256-2268. doi: 10.1182/blood.2021013231. PMID: 34587242; PMCID: PMC8483989. <https://pubmed.ncbi.nlm.nih.gov/34587242/>
129. van Dijk MMH, Veldman HD, Aarts F, et al. A case of unusual mild clinical presentation of COVID-19 vaccine-induced immune thrombotic thrombocytopenia with splanchnic vein thrombosis. *Ann Hepatol*. 2022 Jan-Feb;27(1):100590. doi: 10.1016/j.aohep.2021.100590. Epub 2021 Nov 27. PMID: 34843991; PMCID: PMC8626153. <https://pubmed.ncbi.nlm.nih.gov/34843991/>
130. Cheng N. Cerebral Venous Sinus Thrombosis After Pfizer-BioNTech COVID-19 (BNT162b2) Vaccination. *J Clin Neurol*. 2021 Oct;17(4):573-575. doi: 10.3988/jcn.2021.17.4.573. PMID: 34595867; PMCID: PMC8490890. <https://pubmed.ncbi.nlm.nih.gov/34595867/>
131. Chang JC, Hawley HB. Vaccine-Associated Thrombocytopenia and Thrombosis: Venous Endotheliopathy Leading to Venous Combined Micro-Macrothrombosis. *Medicina (Kaunas)*. 2021 Oct 26;57(11):1163. doi: 10.3390/medicina57111163. PMID: 34833382; PMCID: PMC8621006. <https://pubmed.ncbi.nlm.nih.gov/34833382/>
132. Rodríguez-Pardo J, Gilo-Arrojo F, Ruiz-Ares G, et al. Thrombosis and Thrombocytopenia Syndrome Causing Isolated Symptomatic Carotid Occlusion after Covid-19 Vaccine. *Thromb Haemost*. 2022 Feb;122(2):300-303. doi: 10.1055/a-1674-0341. Epub 2021 Oct 20. PMID: 34670287. <https://pubmed.ncbi.nlm.nih.gov/34670287/>
133. Bhan C, Bheesham N, Shakuntulla F, et al. An unusual presentation of acute deep vein thrombosis after the Moderna COVID-19 vaccine-a case report. *Ann Transl Med*. 2021 Oct;9(20):1605. doi: 10.21037/atm-21-2772. PMID: 34790811; PMCID: PMC8576696. <https://pubmed.ncbi.nlm.nih.gov/34790811/>
134. Panovska-Stavridis I, Pivkova-Veljanovska A, Trajkova S, et al. A Rare Case of Superior Ophthalmic Vein Thrombosis and Thrombocytopenia Following ChAdOx1 nCoV-19 Vaccine Against SARS-CoV-2. *Mediterr J Hematol Infect Dis*. 2021 Mar 1;13(1):e2021048. doi: 10.4084/MJHID.2021.048. PMID: 34276917; PMCID: PMC8265377. <https://pubmed.ncbi.nlm.nih.gov/34276917/>

135. Park YS. Thrombosis and severe acute respiratory syndrome coronavirus 2 vaccines: vaccine-induced immune thrombotic thrombocytopenia. *Clin Exp Pediatr*. 2021 Aug;64(8):400-405. doi: 10.3345/cep.2021.00717. Epub 2021 Jun 30. PMID: 34237213; PMCID: PMC8342878. <https://pubmed.ncbi.nlm.nih.gov/34237213/>.
136. Cliff-Patel N, Moncrieff L, Ziauddin V. Renal Vein Thrombosis and Pulmonary Embolism Secondary to Vaccine-induced Thrombotic Thrombocytopenia (VITT). *Eur J Case Rep Intern Med*. 2021 Jun 30;8(7):002692. doi: 10.12890/2021_002692. PMID: 34268278; PMCID: PMC8276919. <https://pubmed.ncbi.nlm.nih.gov/34268278/>.
137. Jones M, Boisvert A, Landry J, et al. Limb ischemia and pulmonary artery thrombosis after the ChAdOx1 nCoV-19 (Oxford-AstraZeneca) vaccine: a case of vaccine-induced immune thrombotic thrombocytopenia. *CMAJ*. 2021 Jun 14;193(24):E906-E910. doi: 10.1503/cmaj.210795. Epub 2021 May 14. PMID: 33990339; PMCID: PMC8248449. <https://pubmed.ncbi.nlm.nih.gov/33990339/>.
138. Hwang J, Lee SB, Lee SW, et al. Comparison of vaccine-induced thrombotic events between ChAdOx1 nCoV-19 and Ad26.COV.2.S vaccines. *J Autoimmun*. 2021 Aug;122:102681. doi: 10.1016/j.jaut.2021.102681. Epub 2021 Jun 15. PMID: 34139631; PMCID: PMC8204660. <https://pubmed.ncbi.nlm.nih.gov/34139631/>.
139. Bayas A, Menacher M, Christ M, et al. Bilateral superior ophthalmic vein thrombosis, ischaemic stroke, and immune thrombocytopenia after ChAdOx1 nCoV-19 vaccination. *Lancet*. 2021 May 1;397(10285):e11. doi: 10.1016/S0140-6736(21)00872-2. Epub 2021 Apr 14. PMID: 33864750; PMCID: PMC8046413. <https://pubmed.ncbi.nlm.nih.gov/33864750/>
140. Furie KL, Cushman M, Elkind MSV, et al. Diagnosis and Management of Cerebral Venous Sinus Thrombosis With Vaccine-Induced Immune Thrombotic Thrombocytopenia. *Stroke*. 2021 Jul;52(7):2478-2482. doi: 10.1161/STROKEAHA.121.035564. Epub 2021 Apr 29. PMID: 33914590. <https://pubmed.ncbi.nlm.nih.gov/33914590/>
141. Morales Varas G, Calle Flores A, Sánchez Casado M. Venous sinus thrombosis following vaccination with ChAdOx1 nCov-19. *Med Intensiva (Engl Ed)*. 2021 Aug 19:S0210-5691(21)00177-7. English, Spanish. doi: 10.1016/j.medin.2021.07.003. Epub ahead of print. PMID: 34420802; PMCID: PMC8376560. <https://pubmed.ncbi.nlm.nih.gov/34420802/>
142. Krzywicka K, Heldner MR, Sánchez van Kammen M, et al. Post-SARS-CoV-2-vaccination cerebral venous sinus thrombosis: an analysis of cases notified to the European Medicines Agency. *Eur J Neurol*. 2021 Nov;28(11):3656-3662. doi: 10.1111/ene.15029. Epub 2021 Aug 4. PMID: 34293217; PMCID: PMC8444640. <https://pubmed.ncbi.nlm.nih.gov/34293217/>
143. Hippisley-Cox J, Patone M, Mei XW, et al. Risk of thrombocytopenia and thromboembolism after covid-19 vaccination and SARS-CoV-2 positive testing: self-

- controlled case series study. *BMJ*. 2021 Aug 26;374:n1931. doi: 10.1136/bmj.n1931. PMID: 34446426; PMCID: PMC8388189. <https://pubmed.ncbi.nlm.nih.gov/34446426/>
144. Cari L, Fiore P, Naghavi Alhosseini M, et al. Blood clots and bleeding events following BNT162b2 and ChAdOx1 nCoV-19 vaccine: An analysis of European data. *J Autoimmun*. 2021 Aug;122:102685. doi: 10.1016/j.jaut.2021.102685. Epub 2021 Jun 23. PMID: 34174723; PMCID: PMC8220408. <https://pubmed.ncbi.nlm.nih.gov/34174723/>
 145. Pottegård A, Lund LC, Karlstad Ø, et al. Arterial events, venous thromboembolism, thrombocytopenia, and bleeding after vaccination with Oxford-AstraZeneca ChAdOx1-S in Denmark and Norway: population based cohort study. *BMJ*. 2021 May 5;373:n1114. doi: 10.1136/bmj.n1114. PMID: 33952445; PMCID: PMC8097496. <https://pubmed.ncbi.nlm.nih.gov/33952445/>
 146. Simpson CR, Shi T, Vasileiou E, et al. First-dose ChAdOx1 and BNT162b2 COVID-19 vaccines and thrombocytopenic, thromboembolic and hemorrhagic events in Scotland. *Nat Med*. 2021 Jul;27(7):1290-1297. doi: 10.1038/s41591-021-01408-4. Epub 2021 Jun 9. PMID: 34108714; PMCID: PMC8282499. <https://pubmed.ncbi.nlm.nih.gov/34108714/>
 147. Bandapaati S, Bobba H, Navinan MR. Coeliac artery and splenic artery thrombosis complicated with splenic infarction 7 days following the first dose of Oxford vaccination, causal relationship or coincidence? *BMJ Case Rep*. 2021 Jul 14;14(7):e243799. doi: 10.1136/bcr-2021-243799. PMID: 34261633; PMCID: PMC8280896. <https://pubmed.ncbi.nlm.nih.gov/34261633/>.
 148. Lin W, Ko CA, Sung YF, et al. Cerebral Venous Sinus Thrombosis, Pulmonary Embolism, and Thrombocytopenia After COVID-19 Vaccination in a Taiwanese Man: A Case Report and Literature Review. *Front Neurol*. 2021 Sep 24;12:738329. doi: 10.3389/fneur.2021.738329. PMID: 34630307; PMCID: PMC8498326. <https://pubmed.ncbi.nlm.nih.gov/34630307/>
 149. Jamme M, Mosnino E, Hayon J, et al. Fatal cerebral venous sinus thrombosis after COVID-19 vaccination. *Intensive Care Med*. 2021 Jul;47(7):790-791. doi: 10.1007/s00134-021-06425-y. Epub 2021 May 13. PMID: 33983464; PMCID: PMC8117129. <https://pubmed.ncbi.nlm.nih.gov/33983464/>
 150. Elrashdy F, Tambuwala MM, Hassan SS, et al. Autoimmunity roots of the thrombotic events after COVID-19 vaccination. *Autoimmun Rev*. 2021 Nov;20(11):102941. doi: 10.1016/j.autrev.2021.102941. Epub 2021 Sep 9. PMID: 34508917; PMCID: PMC8426137. <https://pubmed.ncbi.nlm.nih.gov/34508917/>.
 151. Premkumar M, Bhujade H, Karki T, et al. New Portal Vein Thrombosis in Cirrhosis-is the thrombophilia exacerbated due to Vaccine or COVID-19? *J Clin Exp Hepatol*. 2021 Nov 8. doi: 10.1016/j.jceh.2021.10.149. Epub ahead of print. PMID: 34776709; PMCID: PMC8574119. [https://www.icehepatology.com/article/S0973-6883\(21\)00545-4/fulltext](https://www.icehepatology.com/article/S0973-6883(21)00545-4/fulltext).

152. Garnier M, Curado A, Billoir P, et al. Imaging of Oxford/AstraZeneca® COVID-19 vaccine-induced immune thrombotic thrombocytopenia. *Diagn Interv Imaging*. 2021 Oct;102(10):649-650. doi: 10.1016/j.diii.2021.04.005. Epub 2021 Apr 28. PMID: 33962903; PMCID: PMC8080133. <https://pubmed.ncbi.nlm.nih.gov/33962903/>.
153. Yamaguchi Y, Kimihira L, Nagasawa H, et al. Cerebral Venous Sinus Thrombosis After BNT162b2 mRNA COVID-19 Vaccination. *Cureus*. 2021 Oct 14;13(10):e18775. doi: 10.7759/cureus.18775. PMID: 34796065; PMCID: PMC8590453. <https://pubmed.ncbi.nlm.nih.gov/34796065/>.
154. Al-Mayhani T, Saber S, Stubbs MJ, et al. Ischaemic stroke as a presenting feature of ChAdOx1 nCoV-19 vaccine-induced immune thrombotic thrombocytopenia. *J Neurol Neurosurg Psychiatry*. 2021 Nov;92(11):1247-1248. doi: 10.1136/jnnp-2021-326984. Epub 2021 May 25. PMID: 34035134. <https://pubmed.ncbi.nlm.nih.gov/34035134/>
155. Koh JS, Hoe RHM, Yong MH, et al. Hospital-based observational study of neurological disorders in patients recently vaccinated with COVID-19 mRNA vaccines. *J Neurol Sci*. 2021 Nov 15;430:120030. doi: 10.1016/j.jns.2021.120030. Epub 2021 Oct 13. PMID: 34688190; PMCID: PMC8511874. <https://pubmed.ncbi.nlm.nih.gov/34688190/>
156. Cleaver J, Ibitoye R, Morrison H, et al. Endovascular treatment for vaccine-induced cerebral venous sinus thrombosis and thrombocytopenia following ChAdOx1 nCoV-19 vaccination: a report of three cases. *J Neurointerv Surg*. 2021 Nov 15:neurintsurg-2021-018238. doi: 10.1136/neurintsurg-2021-018238. Epub ahead of print. PMID: 34782400. <https://pubmed.ncbi.nlm.nih.gov/34782400/>
157. Cari L, Alhosseini MN, Fiore P, et al. Cardiovascular, neurological, and pulmonary events following vaccination with the BNT162b2, ChAdOx1 nCoV-19, and Ad26.COV2.S vaccines: An analysis of European data. *J Autoimmun*. 2021 Dec;125:102742. doi: 10.1016/j.jaut.2021.102742. Epub 2021 Oct 26. PMID: 34710832; PMCID: PMC8547775. <https://pubmed.ncbi.nlm.nih.gov/34710832/>
158. Lippi G, Favaloro EJ. Cerebral Venous Thrombosis Developing after COVID-19 Vaccination: VITT, VATT, TTS, and More. *Semin Thromb Hemost*. 2022 Feb;48(1):8-14. doi: 10.1055/s-0041-1736168. Epub 2021 Oct 25. PMID: 34695859. <https://pubmed.ncbi.nlm.nih.gov/34695859/>
159. Gangat N, Guglielmelli P, Betti S, et al. Cerebral venous thrombosis and myeloproliferative neoplasms: A three-center study of 74 consecutive cases. *Am J Hematol*. 2021 Dec 1;96(12):1580-1586. doi: 10.1002/ajh.26336. Epub 2021 Sep 10. PMID: 34453762. <https://pubmed.ncbi.nlm.nih.gov/34453762/>.
160. Lioudaki S, Kontopodis N, Pontikoglou C, et al. Multiple Sites of Arterial Thrombosis in A 35-Year Old Patient after ChAdOx1 (AstraZeneca) Vaccination, Requiring Emergent Femoral and Carotid Surgical Thrombectomy. *Ann Vasc Surg*. 2022 Feb;79:438.e1-438.e4.

- doi: 10.1016/j.avsg.2021.07.033. Epub 2021 Oct 10. PMID: 34644642. <https://pubmed.ncbi.nlm.nih.gov/34644642/>
161. Watts I, Smith D, Mounter S, et al. A case series of vaccine-induced thrombotic thrombocytopenia in a London teaching hospital. *Br J Clin Pharmacol*. 2021 Oct 25;10.1111/bcp.15116. doi: 10.1111/bcp.15116. Epub ahead of print. PMID: 34694650; PMCID: PMC8652623. <https://pubmed.ncbi.nlm.nih.gov/34694650/>
 162. Kuzumi A, Yoshizaki A, Chiba K, et al. Genital necrosis with cutaneous thrombosis after COVID-19 mRNA vaccination. *J Eur Acad Dermatol Venereol*. 2021 Nov 28. doi: 10.1111/jdv.17837. Epub ahead of print. PMID: 34839563. <https://pubmed.ncbi.nlm.nih.gov/34839563/>
 163. Yagi Y, Asami Y, Kyoya M, et al. Cerebral venous sinus thrombosis after mRNA-based COVID-19 vaccination. *Neurol Sci*. 2022 Jan;43(1):41-43. doi: 10.1007/s10072-021-05714-0. Epub 2021 Nov 16. PMID: 34783932; PMCID: PMC8593397. <https://pubmed.ncbi.nlm.nih.gov/34783932/>.
 164. Thachil J. COVID-19 Vaccine-Induced Immune Thrombosis with Thrombocytopenia (VITT) and the Shades of Grey in Thrombus Formation. *Semin Thromb Hemost*. 2022 Feb;48(1):15-18. doi: 10.1055/s-0041-1735453. Epub 2021 Oct 8. PMID: 34624910. <https://pubmed.ncbi.nlm.nih.gov/34624910/>
 165. Castelli GP, Pognani C, Sozzi C, et al. Cerebral venous sinus thrombosis associated with thrombocytopenia post-vaccination for COVID-19. *Crit Care*. 2021 Apr 12;25(1):137. doi: 10.1186/s13054-021-03572-y. PMID: 33845870; PMCID: PMC8039796. <https://pubmed.ncbi.nlm.nih.gov/33845870/>.
 166. Syed K, Chaudhary H, Donato A. Central Venous Sinus Thrombosis with Subarachnoid Hemorrhage Following an mRNA COVID-19 Vaccination: Are These Reports Merely Coincidental? *Am J Case Rep*. 2021 Sep 3;22:e933397. doi: 10.12659/AJCR.933397. PMID: 34478433; PMCID: PMC8422566. <https://pubmed.ncbi.nlm.nih.gov/34478433/>
 167. Carli G, Nichele I, Ruggeri M, et al. Deep vein thrombosis (DVT) occurring shortly after the second dose of mRNA SARS-CoV-2 vaccine. *Intern Emerg Med*. 2021 Apr;16(3):803-804. doi: 10.1007/s11739-021-02685-0. Epub 2021 Mar 9. PMID: 33687691; PMCID: PMC7940863. <https://pubmed.ncbi.nlm.nih.gov/33687691/>
 168. Wiest NE, Johns GS, Edwards E. A Case of Acute Pulmonary Embolus after mRNA SARS-CoV-2 Immunization. *Vaccines (Basel)*. 2021 Aug 14;9(8):903. doi: 10.3390/vaccines9080903. PMID: 34452028; PMCID: PMC8402540. <https://pubmed.ncbi.nlm.nih.gov/34452028/>
 169. Muir KW, Perry RJ. The International Cerebral Venous Thrombosis Consortium report on cerebral venous thrombosis following vaccination against SARS-CoV-2. *Eur J Neurol*. 2021

- Nov;28(11):3543-3544. doi: 10.1111/ene.15085. Epub 2021 Sep 14. PMID: 34462996; PMCID: PMC8652852. <https://pubmed.ncbi.nlm.nih.gov/34462996/>
170. Schulz JB, Berlit P, Diener HC, et al. COVID-19 Vaccine-Associated Cerebral Venous Thrombosis in Germany. *Ann Neurol*. 2021 Oct;90(4):627-639. doi: 10.1002/ana.26172. Epub 2021 Aug 23. PMID: 34288044; PMCID: PMC8427115. <https://pubmed.ncbi.nlm.nih.gov/34288044/>.
171. Walter U, Volmer E, Wittstock M, et al. Hirnvenen- und Sinusthrombose nach COVID-19-Schutzimpfung : Neurologisch-radiologisches Prozedere [Cerebral venous sinus thrombosis after COVID-19 vaccination : Neurological and radiological management]. *Radiologe*. 2021 Oct;61(10):923-932. German. doi: 10.1007/s00117-021-00887-3. Epub 2021 Jul 29. PMID: 34327553; PMCID: PMC8320717. <https://pubmed.ncbi.nlm.nih.gov/34327553/>.
172. Franchini M, Testa S, Pezzo M, et al. Cerebral venous thrombosis and thrombocytopenia post-COVID-19 vaccination. *Thromb Res*. 2021 Jun;202:182-183. doi: 10.1016/j.thromres.2021.04.001. Epub 2021 Apr 8. PMID: 33878469; PMCID: PMC8028600. <https://pubmed.ncbi.nlm.nih.gov/33878469/>.
173. Mehta PR, Apap Mangion S, Bengner M, et al. Cerebral venous sinus thrombosis and thrombocytopenia after COVID-19 vaccination - A report of two UK cases. *Brain Behav Immun*. 2021 Jul;95:514-517. doi: 10.1016/j.bbi.2021.04.006. Epub 2021 Apr 20. PMID: 33857630; PMCID: PMC8056834. <https://pubmed.ncbi.nlm.nih.gov/33857630/>.
174. Ciccone A. SARS-CoV-2 vaccine-induced cerebral venous thrombosis. *Eur J Intern Med*. 2021 Jul;89:19-21. doi: 10.1016/j.ejim.2021.05.026. Epub 2021 May 25. PMID: 34090750; PMCID: PMC8148433. <https://pubmed.ncbi.nlm.nih.gov/34090750/>.
175. Walter U, Fuchs M, Grossmann A, et al. Adenovirus-Vectored COVID-19 Vaccine-Induced Immune Thrombosis of Carotid Artery: A Case Report. *Neurology*. 2021 Jul 26:10.1212/WNL.0000000000012576. doi: 10.1212/WNL.0000000000012576. Epub ahead of print. PMID: 34312301. <https://pubmed.ncbi.nlm.nih.gov/34312301/>.
176. Yahyavi-Firouz-Abadi N, Naik RP. Cerebral venous sinus thrombosis associated with vaccine-induced thrombotic thrombocytopenia. *Neuroradiol J*. 2021 Aug 1:19714009211036687. doi: 10.1177/19714009211036687. Epub ahead of print. PMID: 34333995. <https://pubmed.ncbi.nlm.nih.gov/34333995/>
177. Dias L, Soares-Dos-Reis R, Meira J, et al. Cerebral Venous Thrombosis after BNT162b2 mRNA SARS-CoV-2 vaccine. *J Stroke Cerebrovasc Dis*. 2021 Aug;30(8):105906. doi: 10.1016/j.jstrokecerebrovasdis.2021.105906. Epub 2021 May 25. PMID: 34111775; PMCID: PMC8148614. <https://pubmed.ncbi.nlm.nih.gov/34111775/>.
178. Kow CS, Hasan SS. Cerebral Venous Thrombosis following COVID-19 Vaccination. *J Stroke Cerebrovasc Dis*. 2021 Oct;30(10):105866. doi:

- 10.1016/j.jstrokecerebrovasdis.2021.105866. Epub 2021 May 10. PMID: 34045111; PMCID: PMC8108371. <https://pubmed.ncbi.nlm.nih.gov/34045111/>
179. Jamme M, Mosnino E, Hayon J, et al. Fatal cerebral venous sinus thrombosis after COVID-19 vaccination. *Intensive Care Med.* 2021 Jul;47(7):790-791. doi: 10.1007/s00134-021-06425-y. Epub 2021 May 13. PMID: 33983464; PMCID: PMC8117129. <https://pubmed.ncbi.nlm.nih.gov/33983464/>
180. Bikdeli B, Chatterjee S, Arora S, et al. Cerebral Venous Sinus Thrombosis in the U.S. Population, After Adenovirus-Based SARS-CoV-2 Vaccination, and After COVID-19. *J Am Coll Cardiol.* 2021 Jul 27;78(4):408-411. doi: 10.1016/j.jacc.2021.06.001. Epub 2021 Jun 8. PMID: 34116145; PMCID: PMC8186447. <https://pubmed.ncbi.nlm.nih.gov/34116145/>
181. Gürtler L, Seitz R, Schramm W. Cerebral venous thrombosis after COVID-19 vaccination: is the risk of thrombosis increased by intravascular application of the vaccine? *Infection.* 2021 Oct;49(5):1071-1074. doi: 10.1007/s15010-021-01658-x. Epub 2021 Jul 21. PMID: 34286453; PMCID: PMC8294245. <https://pubmed.ncbi.nlm.nih.gov/34286453/>.
182. Syed K, Chaudhary H, Donato A. Central Venous Sinus Thrombosis with Subarachnoid Hemorrhage Following an mRNA COVID-19 Vaccination: Are These Reports Merely Coincidental? *Am J Case Rep.* 2021 Sep 3;22:e933397. doi: 10.12659/AJCR.933397. PMID: 34478433; PMCID: PMC8422566. <https://pubmed.ncbi.nlm.nih.gov/34478433/>
183. Ikenberg B, Demleitner AF, Thiele T, et al. Cerebral venous sinus thrombosis after ChAdOx1 nCov-19 vaccination with a misleading first cerebral MRI scan. *Stroke Vasc Neurol.* 2021 Dec;6(4):668-670. doi: 10.1136/svn-2021-001095. Epub 2021 Jul 8. PMID: 34244448; PMCID: PMC8717801. <https://pubmed.ncbi.nlm.nih.gov/34244448/>
184. Clark RT, Johnson L, Billotti J, et al. Early Outcomes of Bivalirudin Therapy for Thrombotic Thrombocytopenia and Cerebral Venous Sinus Thrombosis After Ad26.COVS.2.S Vaccination. *Ann Emerg Med.* 2021 Oct;78(4):511-514. doi: 10.1016/j.annemergmed.2021.04.035. Epub 2021 Jul 3. PMID: 34226070; PMCID: PMC8253724. <https://pubmed.ncbi.nlm.nih.gov/34226070/>
185. Castelli GP, Pognani C, Sozzi C, et al. Cerebral venous sinus thrombosis associated with thrombocytopenia post-vaccination for COVID-19. *Crit Care.* 2021 Apr 12;25(1):137. doi: 10.1186/s13054-021-03572-y. PMID: 33845870; PMCID: PMC8039796. <https://pubmed.ncbi.nlm.nih.gov/33845870/>.
186. Zakaria Z, Sapiai NA, Ghani ARI. Cerebral venous sinus thrombosis 2 weeks after the first dose of mRNA SARS-CoV-2 vaccine. *Acta Neurochir (Wien).* 2021 Aug;163(8):2359-2362. doi: 10.1007/s00701-021-04860-w. Epub 2021 Jun 8. PMID: 34101024; PMCID: PMC8186353. <https://pubmed.ncbi.nlm.nih.gov/34101024/>.
187. Wiedmann M, Skattør T, Stray-Pedersen A, et al. Vaccine Induced Immune Thrombotic Thrombocytopenia Causing a Severe Form of Cerebral Venous Thrombosis With High

- Fatality Rate: A Case Series. *Front Neurol.* 2021 Jul 30;12:721146. doi: 10.3389/fneur.2021.721146. PMID: 34393988; PMCID: PMC8363077. <https://pubmed.ncbi.nlm.nih.gov/34393988/>.
188. Esba LCA, Al Jeraisy M. Reported adverse effects following COVID-19 vaccination at a tertiary care hospital, focus on cerebral venous sinus thrombosis (CVST). *Expert Rev Vaccines.* 2021 Aug;20(8):1037-1042. doi: 10.1080/14760584.2021.1940145. Epub 2021 Jun 17. PMID: 34092166; PMCID: PMC8220435. <https://pubmed.ncbi.nlm.nih.gov/34092166/>
 189. Guan CY, Tsai SH, Fan JS, et al. Middle-age Asian male with cerebral venous thrombosis after COVID-19 AstraZeneca vaccination. *Am J Emerg Med.* 2022 Jan;51:427.e3-427.e4. doi: 10.1016/j.ajem.2021.07.011. Epub 2021 Jul 8. PMID: 34274191; PMCID: PMC8265178. <https://pubmed.ncbi.nlm.nih.gov/34274191/>
 190. Dutta A, Ghosh R, Bhattacharya D, et al. Anti-PF4 antibody negative cerebral venous sinus thrombosis without thrombocytopenia following immunization with COVID-19 vaccine in an elderly non-comorbid Indian male, managed with conventional heparin-warfarin based anticoagulation. *Diabetes Metab Syndr.* 2021 Jul-Aug;15(4):102184. doi: 10.1016/j.dsx.2021.06.021. Epub 2021 Jun 24. PMID: 34186376; PMCID: PMC8223002. <https://pubmed.ncbi.nlm.nih.gov/34186376/>
 191. Pottegård A, Lund LC, Karlstad Ø, et al. Arterial events, venous thromboembolism, thrombocytopenia, and bleeding after vaccination with Oxford-AstraZeneca ChAdOx1-S in Denmark and Norway: population based cohort study. *BMJ.* 2021 May 5;373:n1114. doi: 10.1136/bmj.n1114. PMID: 33952445; PMCID: PMC8097496. <https://pubmed.ncbi.nlm.nih.gov/33952445/>
 192. Marchandot B, Carmona A, Trimaille A, et al. Procoagulant microparticles: a possible link between vaccine-induced immune thrombocytopenia (VITT) and cerebral sinus venous thrombosis. *J Thromb Thrombolysis.* 2021 Oct;52(3):689-691. doi: 10.1007/s11239-021-02505-4. Epub 2021 Jun 15. PMID: 34129181; PMCID: PMC8204296. <https://pubmed.ncbi.nlm.nih.gov/34129181/>
 193. See I, Su JR, Lale A, et al. US Case Reports of Cerebral Venous Sinus Thrombosis With Thrombocytopenia After Ad26.COVS.2.S Vaccination, March 2 to April 21, 2021. *JAMA.* 2021 Jun 22;325(24):2448-2456. doi: 10.1001/jama.2021.7517. PMID: 33929487; PMCID: PMC8087975. <https://pubmed.ncbi.nlm.nih.gov/33929487/>.
 194. Lee EJ, Lee AI. Cerebral venous sinus thrombosis after vaccination: the UK experience. *Lancet.* 2021 Sep 25;398(10306):1107-1109. doi: 10.1016/S0140-6736(21)01788-8. Epub 2021 Aug 6. PMID: 34370974; PMCID: PMC8346246. <https://pubmed.ncbi.nlm.nih.gov/34370974/>
 195. Şimşek F, Tosunoğlu R. Massive cerebral venous thrombosis and venous watershed infarction as late complications of COVID-19: a case report. *Neurol Sci.* 2021

- Nov;42(11):4421-4423. doi: 10.1007/s10072-021-05513-7. Epub 2021 Aug 10. PMID: 34373991; PMCID: PMC8352747. <https://pubmed.ncbi.nlm.nih.gov/34373991/>
196. Gabarin N, Patterson S, Pai M, et al. Venous Thromboembolism and Mild Thrombocytopenia after ChAdOx1 nCoV-19 Vaccination. *Thromb Haemost.* 2021 Dec;121(12):1677-1680. doi: 10.1055/a-1585-6182. Epub 2021 Aug 12. PMID: 34384129; PMCID: PMC8632250. <https://pubmed.ncbi.nlm.nih.gov/34384129/>
197. Bonato S, Artoni A, Lecchi A, et al. Massive cerebral venous thrombosis due to vaccine-induced immune thrombotic thrombocytopenia. *Haematologica.* 2021 Nov 1;106(11):3021-3024. doi: 10.3324/haematol.2021.279246. PMID: 34261296; PMCID: PMC8561270. <https://pubmed.ncbi.nlm.nih.gov/34261296/>
198. Lee EJ, Lee AI. Cerebral venous sinus thrombosis after vaccination: the UK experience. *Lancet.* 2021 Sep 25;398(10306):1107-1109. doi: 10.1016/S0140-6736(21)01788-8. Epub 2021 Aug 6. PMID: 34370974; PMCID: PMC8346246. <https://pubmed.ncbi.nlm.nih.gov/34370974/>
199. Kawano H, Hashimoto Y, Hirano T. [Cerebral vein/venous sinus thrombosis with thrombocytopenia syndrome after COVID-19 vaccination]. *Rinsho Shinkeigaku.* 2021 Sep 28;61(9):594-601. Japanese. doi: 10.5692/clinicalneuro.001646. Epub 2021 Aug 7. PMID: 34373413. <https://pubmed.ncbi.nlm.nih.gov/34373413/>
200. Strobel D, Haberkamp S, Zundler S. Portal Vein Thrombosis due to Vaccine-Induced Immune Thrombotic Thrombocytopenia (VITT) after Covid Vaccination with ChAdOx1 nCoV-19. *Ultraschall Med.* 2021 Oct;42(5):551-552. English. doi: 10.1055/a-1579-9303. Epub 2021 Oct 1. PMID: 34598301. https://pubmed.ncbi.nlm.nih.gov/34598301
201. García-Azorín D, Do TP, Gantenbein AR, et al. Delayed headache after COVID-19 vaccination: a red flag for vaccine induced cerebral venous thrombosis. *J Headache Pain.* 2021 Sep 17;22(1):108. doi: 10.1186/s10194-021-01324-5. PMID: 34535076; PMCID: PMC8446734. <https://pubmed.ncbi.nlm.nih.gov/34535076/>.
202. Walter U, Volmer E, Wittstock M, et al. Hirnvenen- und Sinusthrombose nach COVID-19-Schutzimpfung : Neurologisch-radiologisches Prozedere [Cerebral venous sinus thrombosis after COVID-19 vaccination : Neurological and radiological management]. *Radiologe.* 2021 Oct;61(10):923-932. German. doi: 10.1007/s00117-021-00887-3. Epub 2021 Jul 29. PMID: 34327553; PMCID: PMC8320717. <https://pubmed.ncbi.nlm.nih.gov/34327553/>.
203. Fousse M, Schub D, Merzou F, et al. Case report: cerebral sinus vein thrombosis in two patients with AstraZeneca SARS-CoV-2 vaccination. *J Neurol.* 2022 Feb;269(2):583-586. doi: 10.1007/s00415-021-10731-2. Epub 2021 Oct 5. PMID: 34609603; PMCID: PMC8491181. <https://pubmed.ncbi.nlm.nih.gov/34609603/>

204. Hussain H, Sehring M, Soriano S. Deep Venous Thrombosis after Ad26.COVID.S Vaccination in Adult Male. *Case Rep Crit Care*. 2021 Oct 14;2021:7682655. doi: 10.1155/2021/7682655. PMID: 34659839; PMCID: PMC8516572. <https://pubmed.ncbi.nlm.nih.gov/34659839/>.
205. Hidayat R, Diafiri D, Zairinal RA, et al. Acute Ischaemic Stroke Incidence after Coronavirus Vaccine in Indonesia: Case Series. *Curr Neurovasc Res*. 2021;18(3):360-363. doi: 10.2174/1567202618666210927095613. PMID: 34579636. <https://pubmed.ncbi.nlm.nih.gov/34579636/>
206. Shazley O, Alshazley M. A COVID-Positive 52-Year-Old Man Presented With Venous Thromboembolism and Disseminated Intravascular Coagulation Following Johnson & Johnson Vaccination: A Case-Study. *Cureus*. 2021 Jul 14;13(7):e16383. doi: 10.7759/cureus.16383. PMID: 34408937; PMCID: PMC8362796. <https://www.ncbi.nlm.nih.gov/pubmed/34408937>
207. Scully M, Singh D, Lown R, et al. Pathologic Antibodies to Platelet Factor 4 after ChAdOx1 nCoV-19 Vaccination. *N Engl J Med*. 2021 Jun 10;384(23):2202-2211. doi: 10.1056/NEJMoa2105385. Epub 2021 Apr 16. PMID: 33861525; PMCID: PMC8112532. <https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8112532/>
208. Son YB, Kim TB, Min HJ, Lee J, Yang J, Kim MG, Jo SK, Cho WY, Oh SW. A Case Report of Thrombotic Thrombocytopenia After ChAdOx1 nCov-19 Vaccination and Heparin Use During Hemodialysis. *J Korean Med Sci*. 2022 Mar 14;37(10):e75. doi: 10.3346/jkms.2022.37.e75. PMID: 35289136. <https://pubmed.ncbi.nlm.nih.gov/35289136/>
209. de Gregorio C, Colarusso L, Calcaterra G, Bassareo PP, Ieni A, Mazzeo AT, Ferrazzo G, Noto A, Koniari I, Mehta JL, Kounis NG. Cerebral Venous Sinus Thrombosis following COVID-19 Vaccination: Analysis of 552 Worldwide Cases.
210. Tomassini L, Paolini D, Petrasso PEY, Manta AM, Piersanti V, Straccamore M, Ciallella C. What about cerebral venous sinus thrombosis? A series of three autopsy cases. *Leg Med (Tokyo)*. 2022 Mar 7;56:102052. doi: 10.1016/j.legalmed.2022.102052. Epub ahead of print. PMID: 35276490.

Arthritis

211. Dimopoulou D, Vartzelis G, Dasoula F, et al. Immunogenicity of the COVID-19 mRNA vaccine in adolescents with juvenile idiopathic arthritis on treatment with TNF inhibitors. *Ann Rheum Dis*. 2021 Nov 29;annrheumdis-2021-221607. doi: 10.1136/annrheumdis-2021-221607. Epub ahead of print. PMID: 34844930. <https://www.ncbi.nlm.nih.gov/pubmed/34844930>

212. Furer V, Eviatar T, Zisman D, et al. Immunogenicity and safety of the BNT162b2 mRNA COVID-19 vaccine in adult patients with autoimmune inflammatory rheumatic diseases and in the general population: a multicentre study. *Ann Rheum Dis*. 2021 Oct;80(10):1330-1338. doi: 10.1136/annrheumdis-2021-220647. Epub 2021 Jun 14. PMID: 34127481; PMCID: PMC8206170. <https://www.ncbi.nlm.nih.gov/pubmed/34127481>

Auto-Immune Disorders

213. Watad A, De Marco G, Mahajna H, et al. Immune-Mediated Disease Flares or New-Onset Disease in 27 Subjects Following mRNA/DNA SARS-CoV-2 Vaccination. *Vaccines (Basel)*. 2021 Apr 29;9(5):435. doi: 10.3390/vaccines9050435. PMID: 33946748; PMCID: PMC8146571. <https://pubmed.ncbi.nlm.nih.gov/33946748/>
214. Gadi SRV, Brunker PAR, Al-Samkari H, et al. Severe autoimmune hemolytic anemia following receipt of SARS-CoV-2 mRNA vaccine. *Transfusion*. 2021 Nov;61(11):3267-3271. doi: 10.1111/trf.16672. Epub 2021 Oct 3. PMID: 34549821; PMCID: PMC8661722. <https://pubmed.ncbi.nlm.nih.gov/34549821/>
215. Jeon YH, Lim DH, Choi SW, et al. A flare of Still's disease following COVID-19 vaccination in a 34-year-old patient. *Rheumatol Int*. 2021 Nov 19:1–6. doi: 10.1007/s00296-021-05052-6. Epub ahead of print. PMID: 34797392; PMCID: PMC8602986. <https://pubmed.ncbi.nlm.nih.gov/34797392/>
216. Saraceno JJF, Souza GM, Dos Santos Finamor LP, et al. Vogt-Koyanagi-Harada Syndrome following COVID-19 and ChAdOx1 nCoV-19 (AZD1222) vaccine. *Int J Retina Vitreous*. 2021 Aug 30;7(1):49. doi: 10.1186/s40942-021-00319-3. PMID: 34462013; PMCID: PMC8404022. <https://pubmed.ncbi.nlm.nih.gov/34462013/>
217. Buchhorn R, Meyer C, Schulze-Forster K, et al. Autoantibody Release in Children after Corona Virus mRNA Vaccination: A Risk Factor of Multisystem Inflammatory Syndrome? *Vaccines (Basel)*. 2021 Nov 18;9(11):1353. doi: 10.3390/vaccines9111353. PMID: 34835284; PMCID: PMC8618727. <https://www.ncbi.nlm.nih.gov/pubmed/34835284>
218. Papasavvas I, Herbort CP Jr. Reactivation of Vogt-Koyanagi-Harada disease under control for more than 6 years, following anti-SARS-CoV-2 vaccination. *J Ophthalmic Inflamm Infect*. 2021 Jul 5;11(1):21. doi: 10.1186/s12348-021-00251-5. PMID: 34224024; PMCID: PMC8256412. <https://pubmed.ncbi.nlm.nih.gov/34224024/>
219. Watad A, De Marco G, Mahajna H, et al. Immune-Mediated Disease Flares or New-Onset Disease in 27 Subjects Following mRNA/DNA SARS-CoV-2 Vaccination. *Vaccines (Basel)*. 2021 Apr 29;9(5):435. doi: 10.3390/vaccines9050435. PMID: 33946748; PMCID: PMC8146571. <https://pubmed.ncbi.nlm.nih.gov/33946748/>
220. Kreuter A, Licciardi-Fernandez MJ, Burmann SN, et al. Induction and exacerbation of subacute cutaneous lupus erythematosus following mRNA-based or adenoviral vector-

- based SARS-CoV-2 vaccination. *Clin Exp Dermatol*. 2022 Jan;47(1):161-163. doi: 10.1111/ced.14858. Epub 2021 Sep 13. PMID: 34291477; PMCID: PMC8444843. <https://pubmed.ncbi.nlm.nih.gov/34291477/>
221. Khan TA, Sidhu N, Khan L, et al. Bilateral Immune-Mediated Keratolysis After Immunization With SARS-CoV-2 Recombinant Viral Vector Vaccine. *Cornea*. 2021 Dec 1;40(12):1629-1632. doi: 10.1097/ICO.0000000000002844. PMID: 34483273. <https://pubmed.ncbi.nlm.nih.gov/34483273/>.
222. An QJ, Qin DA, Pei JX. Reactive arthritis after COVID-19 vaccination. *Hum Vaccin Immunother*. 2021 Sep 2;17(9):2954-2956. doi: 10.1080/21645515.2021.1920274. Epub 2021 May 25. PMID: 34033732; PMCID: PMC8381833. <https://pubmed.ncbi.nlm.nih.gov/34033732/>.
223. Vera-Lastra O, Ordinola Navarro A, Cruz Domiguez MP, et al. Two Cases of Graves' Disease Following SARS-CoV-2 Vaccination: An Autoimmune/Inflammatory Syndrome Induced by Adjuvants. *Thyroid*. 2021 Sep;31(9):1436-1439. doi: 10.1089/thy.2021.0142. Epub 2021 May 3. PMID: 33858208. <https://pubmed.ncbi.nlm.nih.gov/33858208/>
224. Etemadifar M, Sigari AA, Sedaghat N, et al. Acute relapse and poor immunization following COVID-19 vaccination in a rituximab-treated multiple sclerosis patient. *Hum Vaccin Immunother*. 2021 Oct 3;17(10):3481-3483. doi: 10.1080/21645515.2021.1928463. Epub 2021 May 20. PMID: 34015240; PMCID: PMC8437516. <https://pubmed.ncbi.nlm.nih.gov/34015240/>
225. Gadi SRV, Brunker PAR, Al-Samkari H, et al. Severe autoimmune hemolytic anemia following receipt of SARS-CoV-2 mRNA vaccine. *Transfusion*. 2021 Nov;61(11):3267-3271. doi: 10.1111/trf.16672. Epub 2021 Oct 3. PMID: 34549821; PMCID: PMC8661722. <https://onlinelibrary.wiley.com/doi/10.1111/trf.16672>
226. Chen, Y, Xu, Z, Wang, P, Li, X-M, Shuai, Z-W, Ye, D-Q, et al. New-onset autoimmune phenomena post-COVID-19 vaccination. *Immunology*. 2022; 00: 1– 16. <https://doi.org/10.1111/imm.13443>
227. Barbhaiya M, Levine JM, Bykerk VP, et al. Systemic rheumatic disease flares after SARS-CoV-2 vaccination among rheumatology outpatients in New York City. *Annals of the Rheumatic Diseases* 2021;80:1352-1354. <https://ard.bmj.com/content/80/10/1352>
228. Akinosoglou K, Tzivaki I, Marangos M. Covid-19 vaccine and autoimmunity: Awakening the sleeping dragon. *Clin Immunol*. 2021 May;226:108721. doi: 10.1016/j.clim.2021.108721. Epub 2021 Apr 3. PMID: 33823270; PMCID: PMC8019233. <https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8019233/>
229. Lemoine C, Padilla C, Krampe N, et al. Systemic lupus erythematosus after Pfizer COVID-19 vaccine: a case report. *Clin Rheumatol*. 2022 Mar 16:1–5. doi: 10.1007/s10067-022-

06126-x. Epub ahead of print. PMID: 35294664; PMCID: PMC8924566.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8924566/>

230. Dimopoulou D, Spyridis N, Vartzelis G, et al. Safety and tolerability of the COVID-19 messenger RNA vaccine in adolescents with juvenile idiopathic arthritis treated with tumor necrosis factor inhibitors. *Arthritis Rheumatol.* 2022 Feb;74(2):365-366. doi: 10.1002/art.41977. Epub 2022 Jan 4. PMID: 34492161; PMCID: PMC8653078. <https://www.ncbi.nlm.nih.gov/pubmed/34492161>
231. Ntouros PA, Vlachogiannis NI, Pappa M, et al. Effective DNA damage response after acute but not chronic immune challenge: SARS-CoV-2 vaccine versus Systemic Lupus Erythematosus. *Clin Immunol.* 2021 Aug;229:108765. doi: 10.1016/j.clim.2021.108765. Epub 2021 Jun 2. PMID: 34089859; PMCID: PMC8171000. <https://www.ncbi.nlm.nih.gov/pubmed/34089859>
232. Gouda W, Albasri A, Alsaqabi F, Al Sabah HY, Alkandari M, Abdelnaby H. Dermatomyositis Following BNT162b2 mRNA COVID-19 Vaccination. *J Korean Med Sci.* 2022 Feb 7;37(5):e32. doi: 10.3346/jkms.2022.37.e32. PMID: 35132838; PMCID: PMC8822116.
233. Cadiou S, Perdriger A, Ardois S, Albert JD, Berthoud O, Lescoat A, Guggenbuhl P, Robin F. SARS-CoV-2, polymyalgia rheumatica and giant cell arteritis: COVID-19 vaccine shot as a trigger? Comment on: "Can SARS-CoV-2 trigger relapse of polymyalgia rheumatica?" by Manzo et al. *Joint Bone Spine* 2021;88:105150. *Joint Bone Spine.* 2022 Jan;89(1):105282. doi: 10.1016/j.jbspin.2021.105282. Epub 2021 Sep 29. PMID: 34600148; PMCID: PMC8480145.

Autopsy Findings

234. Sessa F, Salerno M, Esposito M, et al. Autopsy Findings and Causality Relationship between Death and COVID-19 Vaccination: A Systematic Review. *J Clin Med.* 2021 Dec 15;10(24):5876. doi: 10.3390/jcm10245876. PMID: 34945172; PMCID: PMC8709364. <https://www.ncbi.nlm.nih.gov/pubmed/34945172>
235. Schneider J, Sottmann L, Greinacher A, et al. Postmortem investigation of fatalities following vaccination with COVID-19 vaccines. *Int J Legal Med.* 2021 Nov;135(6):2335-2345. doi: 10.1007/s00414-021-02706-9. Epub 2021 Sep 30. PMID: 34591186; PMCID: PMC8482743. <https://www.ncbi.nlm.nih.gov/pubmed/34591186>
236. Choi S, Lee S, Seo JW, Kim MJ, Jeon YH, Park JH, Lee JK, Yeo NS. Myocarditis-induced Sudden Death after BNT162b2 mRNA COVID-19 Vaccination in Korea: Case Report Focusing on Histopathological Findings. *J Korean Med Sci.* 2021 Oct 18;36(40):e286. doi: 10.3346/jkms.2021.36.e286. PMID: 34664804; PMCID: PMC8524235.
237. Hansen T, Titze U, Kulamadayil-Heidenreich NSA, Glombitza S, Tebbe JJ, Röcken C, Schulz B, Weise M, Wilkens L. First case of postmortem study in a patient vaccinated against

- SARS-CoV-2. *Int J Infect Dis.* 2021 Jun;107:172-175. doi: 10.1016/j.ijid.2021.04.053. Epub 2021 Apr 16. PMID: 33872783; PMCID: PMC8051011.
238. Sessa F, Salerno M, Esposito M, Di Nunno N, Zamboni P, Pomara C. Autopsy Findings and Causality Relationship between Death and COVID-19 Vaccination: A Systematic Review. *J Clin Med.* 2021 Dec 15;10(24):5876. doi: 10.3390/jcm10245876. PMID: 34945172; PMCID: PMC8709364.
239. Edler C, Klein A, Schröder AS, Sperhake JP, Ondruschka B. Deaths associated with newly launched SARS-CoV-2 vaccination (Comirnaty®). *Leg Med (Tokyo).* 2021 Jul;51:101895. doi: 10.1016/j.legalmed.2021.101895. Epub 2021 Apr 17. PMID: 33895650; PMCID: PMC8052499.
240. Pomara C, Sessa F, Ciaccio M, Dieli F, Esposito M, Giammanco GM, Garozzo SF, Giarratano A, Prati D, Rappa F, Salerno M, Tripodo C, Mannucci PM, Zamboni P. COVID-19 Vaccine and Death: Causality Algorithm According to the WHO Eligibility Diagnosis. *Diagnostics (Basel).* 2021 May 26;11(6):955. doi: 10.3390/diagnostics11060955. PMID: 34073536; PMCID: PMC8229116.
241. Gill JR, Tashjian R, Duncanson E. Autopsy Histopathologic Cardiac Findings in Two Adolescents Following the Second COVID-19 Vaccine Dose. *Arch Pathol Lab Med.* 2022 Feb 14. doi: 10.5858/arpa.2021-0435-SA. Epub ahead of print. PMID: 35157759.
242. Yeo A, Kuek B, Lau M, Tan SR, Chan S. Post COVID-19 vaccine deaths - Singapore's early experience. *Forensic Sci Int.* 2022 Jan 19;332:111199. doi: 10.1016/j.forsciint.2022.111199. Epub ahead of print. PMID: 35078041; PMCID: PMC8767909.
243. Sessa F, Salerno M, Esposito M, Di Nunno N, Zamboni P, Pomara C. Autopsy Findings and Causality Relationship between Death and COVID-19 Vaccination: A Systematic Review. *J Clin Med.* 2021 Dec 15;10(24):5876. doi: 10.3390/jcm10245876. PMID: 34945172; PMCID: PMC8709364.
244. Hirschbühl K, Schaller T, Märkl B, Claus R, Sipos E, Rentschler L, Maccagno A, Grosser B, Kling E, Neidig M, Kröncke T, Spring O, Braun G, Bösmüller H, Seidl M, Esposito I, Pablik J, Hilsenbeck J, Boor P, Beer M, Dintner S, Wylezich C. High viral loads: what drives fatal cases of COVID-19 in vaccinees? - an autopsy study. *Mod Pathol.* 2022 Apr 1:1–9. doi: 10.1038/s41379-022-01069-9. Epub ahead of print. PMID: 35365771; PMCID: PMC8974809.

Blood Disorders

245. Robichaud J, Côté C, Côté F. Systemic capillary leak syndrome after ChAdOx1 nCoV-19 (Oxford-AstraZeneca) vaccination. *CMAJ.* 2021 Aug 30;193(34):E1341-E1344. doi: 10.1503/cmaj.211212. Epub 2021 Aug 6. PMID: 34362727; PMCID: PMC8432311. <https://pubmed.ncbi.nlm.nih.gov/34362727/>

246. Gerber GF, Yuan X, Yu J, et al. COVID-19 vaccines induce severe hemolysis in paroxysmal nocturnal hemoglobinuria. *Blood*. 2021 Jul 1;137(26):3670-3673. doi: 10.1182/blood.2021011548. PMID: 33945618; PMCID: PMC8099541. <https://ashpublications.org/blood/article/137/26/3670/475905/COVID-19-vaccines-induce-severe-hemolysis-in>
247. Trogstad L, Robertson AH, Mjaaland S, et al. Association between ChAdOx1 nCoV-19 vaccination and bleeding episodes: Large population-based cohort study. *Vaccine*. 2021 Sep 24;39(40):5854-5857. doi: 10.1016/j.vaccine.2021.08.055. Epub 2021 Aug 31. PMID: 34479760; PMCID: PMC8406020. <https://pubmed.ncbi.nlm.nih.gov/34479760/>.
248. Leung VS, Lin Y. Rituximab-induced acute lympholysis and pancytopenia after COVID-19 vaccination. *Clin Case Rep*. 2021 Aug 16;9(8):e04517. doi: 10.1002/ccr3.4517. PMID: 34429981; PMCID: PMC8365555. <https://pubmed.ncbi.nlm.nih.gov/34429981/>
249. Ai S, Awford A, Roncolato F. Hemophagocytic lymphohistiocytosis following ChAdOx1 nCoV-19 vaccination. *J Med Virol*. 2022 Jan;94(1):14-16. doi: 10.1002/jmv.27279. Epub 2021 Aug 23. PMID: 34406660; PMCID: PMC8426904. <https://pubmed.ncbi.nlm.nih.gov/34406660/>.
250. Trogstad L, Robertson AH, Mjaaland S, et al. Association between ChAdOx1 nCoV-19 vaccination and bleeding episodes: Large population-based cohort study. *Vaccine*. 2021 Sep 24;39(40):5854-5857. doi: 10.1016/j.vaccine.2021.08.055. Epub 2021 Aug 31. PMID: 34479760; PMCID: PMC8406020. <https://pubmed.ncbi.nlm.nih.gov/34479760/>.
251. Choi GJ, Baek SH, Kim J, et al. Fatal Systemic Capillary Leak Syndrome after SARS-CoV-2 Vaccination in Patient with Multiple Myeloma. *Emerg Infect Dis*. 2021 Nov;27(11):2973-2975. doi: 10.3201/eid2711.211723. Epub 2021 Aug 30. PMID: 34459725; PMCID: PMC8544977. <https://pubmed.ncbi.nlm.nih.gov/34459725/>
252. Cory P, Lawrence H, Abdulrahim H, et al. Lessons of the month 3: Haemophagocytic lymphohistiocytosis following COVID-19 vaccination (ChAdOx1 nCoV-19). *Clin Med (Lond)*. 2021 Nov;21(6):e677-e679. doi: 10.7861/clinmed.2021-0564. PMID: 34862234; PMCID: PMC8806304. <https://pubmed.ncbi.nlm.nih.gov/34862234/>
253. Wu V, Lopez CA, Hines AM, Barrientos JC. Haemophagocytic lymphohistiocytosis following COVID-19 mRNA vaccination. *BMJ Case Rep*. 2022 Mar 16;15(3):e247022. doi: 10.1136/bcr-2021-247022. PMID: 35296502. <https://pubmed.ncbi.nlm.nih.gov/35296502/>
254. Inoue M, Yasue Y, Kobayashi Y, Sugiyama Y. Systemic capillary leak syndrome (SCLS) after receiving BNT162b2 mRNA COVID-19 (Pfizer-BioNTech) vaccine. *BMJ Case Rep*. 2022 Mar 15;15(3):e248927. doi: 10.1136/bcr-2022-248927. PMID: 35292552. <https://pubmed.ncbi.nlm.nih.gov/35292552/>

Cancer

255. Sumi T, Nagahisa Y, Matsuura K, et al. Lung squamous cell carcinoma with hemoptysis after vaccination with tozinameran (BNT162b2, Pfizer-BioNTech). *Thorac Cancer*. 2021 Nov;12(22):3072-3075. doi: 10.1111/1759-7714.14179. Epub 2021 Oct 6. PMID: 34612003; PMCID: PMC8590897. <https://pubmed.ncbi.nlm.nih.gov/34612003/>
256. Brumfiel CM, Patel MH, DiCaudo DJ, Rosenthal AC, Pittelkow MR, Mangold AR. Recurrence of primary cutaneous CD30-positive lymphoproliferative disorder following COVID-19 vaccination. *Leuk Lymphoma*. 2021 Oct;62(10):2554-2555. doi: 10.1080/10428194.2021.1924371. Epub 2021 May 11. PMID: 33974494.
257. Panou E, Nikolaou V, Marinos L, Kallambou S, Sidiropoulou P, Gerochristou M, Stratigos A. Recurrence of cutaneous T-cell lymphoma post viral vector COVID-19 vaccination. *J Eur Acad Dermatol Venereol*. 2022 Feb;36(2):e91-e93. doi: 10.1111/jdv.17736. Epub 2021 Oct 31. PMID: 34628691.
258. Dahiya S, Luetkens T, Lutfi F, Avila S, Iraguha T, Margiotta P, Hankey KG, Lesho P, Law JY, Lee ST, Baddley J, Kocoglu M, Yared JA, Hardy NM, Rapoport AP, Atanackovic D. Impaired immune response to COVID-19 vaccination in patients with B-cell malignancies after CD19 CAR T-cell therapy. *Blood Adv*. 2022 Jan 25;6(2):686-689. doi: 10.1182/bloodadvances.2021006112. PMID: 34941995; PMCID: PMC8709721.
259. Mehta N, Sales RM, Babagbemi K, et al. Unilateral axillary adenopathy in the setting of COVID-19 vaccine: Follow-up. *Clin Imaging*. 2021 Dec;80:83-87. doi: 10.1016/j.clinimag.2021.06.037. Epub 2021 Jul 9. PMID: 34298342; PMCID: PMC8268700. <https://pubmed.ncbi.nlm.nih.gov/34298342/>
260. Faermann R, Nissan N, Halshtok-Neiman O, et al. COVID-19 Vaccination Induced Lymphadenopathy in a Specialized Breast Imaging Clinic in Israel: Analysis of 163 cases. *Acad Radiol*. 2021 Sep;28(9):1191-1197. doi: 10.1016/j.acra.2021.06.003. Epub 2021 Jun 10. PMID: 34257025; PMCID: PMC8189756. <https://pubmed.ncbi.nlm.nih.gov/34257025/>.
261. de Bock E, Trumpi K, Suijkerbuijk KPM, Vriens MR, Richir MC. Diagnostic pitfalls after COVID-19 vaccination in melanoma and breast cancer patients: A case series. *Int J Surg Case Rep*. 2022 Mar 12;93:106938. doi: 10.1016/j.ijscr.2022.106938. Epub ahead of print. PMID: 35298983. <https://pubmed.ncbi.nlm.nih.gov/35298983/>

Cardiac Disease (Myocarditis / Pericarditis)

262. Tinoco M, Leite S, Faria B, Cardoso S, et al. Perimyocarditis Following COVID-19 Vaccination. *Clin Med Insights Cardiol*. 2021 Nov 24;15:11795468211056634. doi: 10.1177/11795468211056634. PMID: 34866957; PMCID: PMC8637777. <https://www.ncbi.nlm.nih.gov/pubmed/34866957>

263. Kornowski R, Witberg G. Acute myocarditis caused by COVID-19 disease and following COVID-19 vaccination. *Open Heart*. 2022 Mar;9(1):e001957. doi: 10.1136/openhrt-2021-001957. PMID: 35264415; PMCID: PMC8914394.
264. Calcaterra G, Mehta JL, de Gregorio C, et al. COVID 19 Vaccine for Adolescents. Concern about Myocarditis and Pericarditis. *Pediatr Rep*. 2021 Sep 1;13(3):530-533. doi: 10.3390/pediatric13030061. PMID: 34564344; PMCID: PMC8482102. <https://www.ncbi.nlm.nih.gov/pubmed/34564344>
265. Puchalski M, Kamińska H, Bartoszek M, Brzewski M, Werner B. COVID-19-Vaccination-Induced Myocarditis in Teenagers: Case Series with Further Follow-Up. *Int J Environ Res Public Health*. 2022 Mar 15;19(6):3456. doi: 10.3390/ijerph19063456. PMID: 35329143; PMCID: PMC8954790.
266. Schauer J, Buddhe S, Colyer J, et al. Myopericarditis After the Pfizer Messenger Ribonucleic Acid Coronavirus Disease Vaccine in Adolescents. *J Pediatr*. 2021 Nov;238:317-320. doi: 10.1016/j.jpeds.2021.06.083. Epub 2021 Jul 3. PMID: 34228985; PMCID: PMC8253718.
267. Nygaard U, Holm M, Bohnstedt C, et al. Population-based Incidence of Myopericarditis After COVID-19 Vaccination in Danish Adolescents. *Pediatr Infect Dis J*. 2022 Jan 1;41(1):e25-e28. doi: 10.1097/INF.0000000000003389. PMID: 34889875; PMCID: PMC8658061. <https://www.ncbi.nlm.nih.gov/pubmed/34889875>
268. Truong DT, Dionne A, Muniz JC, et al. Clinically Suspected Myocarditis Temporally Related to COVID-19 Vaccination in Adolescents and Young Adults: Suspected Myocarditis After COVID-19 Vaccination. *Circulation*. 2022 Feb;145(5):345-356. doi: 10.1161/CIRCULATIONAHA.121.056583. Epub 2021 Dec 6. PMID: 34865500. <https://www.ncbi.nlm.nih.gov/pubmed/34865500>
269. King WW, Petersen MR, Matar RM, et al. Myocarditis following mRNA vaccination against SARS-CoV-2, a case series. *Am Heart J Plus*. 2021 Aug;8:100042. doi: 10.1016/j.ahjo.2021.100042. Epub 2021 Aug 9. PMID: 34396358; PMCID: PMC8349733. <https://www.sciencedirect.com/science/article/pii/S2666602221000409>
270. Montgomery J, Ryan M, Engler R, et al. Myocarditis Following Immunization With mRNA COVID-19 Vaccines in Members of the US Military. *JAMA Cardiol*. 2021 Oct 1;6(10):1202-1206. doi: 10.1001/jamacardio.2021.2833. PMID: 34185045; PMCID: PMC8243257. <https://jamanetwork.com/journals/jamacardiology/fullarticle/2781601>
271. Dionne A, Sperotto F, Chamberlain S, et al. Association of Myocarditis With BNT162b2 Messenger RNA COVID-19 Vaccine in a Case Series of Children. *JAMA Cardiol*. 2021 Dec 1;6(12):1446-1450. doi: 10.1001/jamacardio.2021.3471. PMID: 34374740; PMCID: PMC8356143. <https://pubmed.ncbi.nlm.nih.gov/34374740/>

272. Marshall M, Ferguson ID, Lewis P, et al. Symptomatic Acute Myocarditis in 7 Adolescents After Pfizer-BioNTech COVID-19 Vaccination. *Pediatrics*. 2021 Sep;148(3):e2021052478. doi: 10.1542/peds.2021-052478. Epub 2021 Jun 4. PMID: 34088762. <https://pediatrics.aappublications.org/content/early/2021/06/04/peds.2021-052478>
273. Luk A, Clarke B, Dahdah N, et al. Myocarditis and Pericarditis After COVID-19 mRNA Vaccination: Practical Considerations for Care Providers. *Can J Cardiol*. 2021 Oct;37(10):1629-1634. doi: 10.1016/j.cjca.2021.08.001. Epub 2021 Aug 8. PMID: 34375696; PMCID: PMC8349442. <https://www.sciencedirect.com/science/article/pii/S0828282X21006243>
274. Pepe S, Gregory AT, Denniss AR. Myocarditis, Pericarditis and Cardiomyopathy After COVID-19 Vaccination. *Heart Lung Circ*. 2021 Oct;30(10):1425-1429. doi: 10.1016/j.hlc.2021.07.011. Epub 2021 Jul 31. PMID: 34340927; PMCID: PMC8324414. <https://www.sciencedirect.com/science/article/pii/S1443950621011562>
275. Bozkurt B, Kamat I, Hotez PJ. Myocarditis With COVID-19 mRNA Vaccines. *Circulation*. 2021 Aug 10;144(6):471-484. doi: 10.1161/CIRCULATIONAHA.121.056135. Epub 2021 Jul 20. PMID: 34281357; PMCID: PMC8340726. <https://www.ahajournals.org/doi/pdf/10.1161/CIRCULATIONAHA.121.056135>
276. Diaz GA, Parsons GT, Gering SK, et al. Myocarditis and Pericarditis After Vaccination for COVID-19. *JAMA*. 2021 Sep 28;326(12):1210-1212. doi: 10.1001/jama.2021.13443. PMID: 34347001; PMCID: PMC8340007. <https://jamanetwork.com/journals/jama/fullarticle/2782900>
277. Rosner CM, Genovese L, Tehrani BN, et al. Myocarditis Temporally Associated With COVID-19 Vaccination. *Circulation*. 2021 Aug 10;144(6):502-505. doi: 10.1161/CIRCULATIONAHA.121.055891. Epub 2021 Jun 16. PMID: 34133885; PMCID: PMC8340723. <https://www.ahajournals.org/doi/pdf/10.1161/CIRCULATIONAHA.121.055891>
278. Al-Rasbi S, Al-Maqbali JS, Al-Farsi R, Al Shukaili MA, Al-Riyami MH, Al Falahi Z, Al Farhan H, Al Alawi AM. Myocarditis, Pulmonary Hemorrhage, and Extensive Myositis with Rhabdomyolysis 12 Days After First Dose of Pfizer-BioNTech BNT162b2 mRNA COVID-19 Vaccine: A Case Report. *Am J Case Rep*. 2022 Feb 17;23:e934399. doi: 10.12659/AJCR.934399. PMID: 35173141; PMCID: PMC8865877.
279. Bautista García J, Peña Ortega P, Bonilla Fernández JA, et al. Acute myocarditis after administration of the BNT162b2 vaccine against COVID-19. *Rev Esp Cardiol (Engl Ed)*. 2021 Sep;74(9):812-814. doi: 10.1016/j.rec.2021.04.005. Epub 2021 Apr 27. PMID: 33994339; PMCID: PMC8075838. <https://pubmed.ncbi.nlm.nih.gov/33994339/>

280. Farahmand R, Trottier CA, Kannam JP, Ho KKL. Incidence of Myopericarditis and Myocardial Injury in Coronavirus Disease 2019 Vaccinated Subjects. *Am J Cardiol*. 2022 Feb 1;164:123-130. doi: 10.1016/j.amjcard.2021.10.022. Epub 2021 Nov 28. PMID: 34852929; PMCID: PMC8627580.
281. Sulemankhil I, Abdelrahman M, Negi SI. Temporal association between the COVID-19 Ad26.COV2.S vaccine and acute myocarditis: A case report and literature review. *Cardiovasc Revasc Med*. 2021 Aug 16:S1553-8389(21)00578-9. doi: 10.1016/j.carrev.2021.08.012. Epub ahead of print. PMID: 34420869; PMCID: PMC8364889. <https://www.sciencedirect.com/science/article/pii/S1553838921005789>
282. Nassar M, Nso N, Gonzalez C, et al. COVID-19 vaccine-induced myocarditis: Case report with literature review. *Diabetes Metab Syndr*. 2021 Sep-Oct;15(5):102205. doi: 10.1016/j.dsx.2021.102205. Epub 2021 Jul 10. Erratum in: *Diabetes Metab Syndr*. 2021 Sep-Oct;15(5):102277. PMID: 34293552; PMCID: PMC8270733. <https://www.sciencedirect.com/science/article/pii/S1871402121002253>
283. Shaw KE, Cavalcante JL, Han BK, et al. Possible Association Between COVID-19 Vaccine and Myocarditis: Clinical and CMR Findings. *JACC Cardiovasc Imaging*. 2021 Sep;14(9):1856-1861. doi: 10.1016/j.jcmg.2021.06.002. Epub 2021 Jun 16. PMID: 34246586; PMCID: PMC8245050. <https://www.sciencedirect.com/science/article/pii/S1936878X2100485X>
284. Minocha PK, Better D, Singh RK, et al. Recurrence of Acute Myocarditis Temporally Associated with Receipt of the mRNA Coronavirus Disease 2019 (COVID-19) Vaccine in a Male Adolescent. *J Pediatr*. 2021 Nov;238:321-323. doi: 10.1016/j.jpeds.2021.06.035. Epub 2021 Jun 22. PMID: 34166671; PMCID: PMC8216855. <https://www.sciencedirect.com/science/article/pii/S002234762100617X>
285. Habib MB, Hamamyh T, Elyas A, et al. Acute myocarditis following administration of BNT162b2 vaccine. *IDCases*. 2021 Jun 16;25:e01197. doi: 10.1016/j.idcr.2021.e01197. PMID: 34189042; PMCID: PMC8220234. <https://www.sciencedirect.com/science/article/pii/S2214250921001530>
286. Ujueta F, Azimi R, Lozier MR, et al. Lymphohistocytic myocarditis after Ad26.COV2.S viral vector COVID-19 vaccination. *Int J Cardiol Heart Vasc*. 2021 Oct;36:100869. doi: 10.1016/j.ijcha.2021.100869. Epub 2021 Sep 7. PMID: 34514078; PMCID: PMC8421108. <https://www.sciencedirect.com/science/article/pii/S2352906721001573>
287. Watkins K, Griffin G, Septaric K, et al. Myocarditis after BNT162b2 vaccination in a healthy male. *Am J Emerg Med*. 2021 Dec;50:815.e1-815.e2. doi: 10.1016/j.ajem.2021.06.051. Epub 2021 Jun 29. PMID: 34229940; PMCID: PMC8238643. <https://www.sciencedirect.com/science/article/pii/S0735675721005362>
288. Patrignani A, Schicchi N, Calcagnoli F, et al. Acute myocarditis following Comirnaty vaccination in a healthy man with previous SARS-CoV-2 infection. *Radiol Case Rep*. 2021

- Nov;16(11):3321-3325. doi: 10.1016/j.radcr.2021.07.082. Epub 2021 Aug 2. PMID: 34367386; PMCID: PMC8326008. <https://www.sciencedirect.com/science/article/pii/S1930043321005549>
289. Schauer J, Buddhe S, Colyer J, et al. Myopericarditis After the Pfizer Messenger Ribonucleic Acid Coronavirus Disease Vaccine in Adolescents. *J Pediatr.* 2021 Nov;238:317-320. doi: 10.1016/j.jpeds.2021.06.083. Epub 2021 Jul 3. PMID: 34228985; PMCID: PMC8253718. <https://www.sciencedirect.com/science/article/pii/S002234762100665X>
290. Ramírez-García A, Lozano Jiménez S, Darnaude Ximénez I, et al. Pericarditis after administration of the BNT162b2 mRNA COVID-19 vaccine. *Rev Esp Cardiol (Engl Ed).* 2021 Dec;74(12):1120-1122. doi: 10.1016/j.rec.2021.07.005. Epub 2021 Jul 16. PMID: 34364831; PMCID: PMC8282480. <https://www.sciencedirect.com/science/article/pii/S1885585721002218>
291. Williams CB, Choi JI, Hosseini F, et al. Acute Myocarditis Following mRNA-1273 SARS-CoV-2 Vaccination. *CJC Open.* 2021 Nov;3(11):1410-1412. doi: 10.1016/j.cjco.2021.07.008. Epub 2021 Jul 14. PMID: 34308326; PMCID: PMC8278869. <https://www.sciencedirect.com/science/article/pii/S2589790X21001931>
292. Ammirati E, Cavalotti C, Milazzo A, et al. Temporal relation between second dose BNT162b2 mRNA Covid-19 vaccine and cardiac involvement in a patient with previous SARS-COV-2 infection. *Int J Cardiol Heart Vasc.* 2021 Jun;34:100774. doi: 10.1016/j.ijcha.2021.100774. Epub 2021 Mar 31. PMID: 33821210; PMCID: PMC8011690. <https://www.sciencedirect.com/science/article/pii/S2352906721000622>
293. Das BB, Kohli U, Ramachandran P, et al. Myopericarditis after messenger RNA Coronavirus Disease 2019 Vaccination in Adolescents 12 to 18 Years of Age. *J Pediatr.* 2021 Nov;238:26-32.e1. doi: 10.1016/j.jpeds.2021.07.044. Epub 2021 Jul 30. PMID: 34339728; PMCID: PMC8321962. <https://www.sciencedirect.com/science/article/pii/S0022347621007368>
294. Cimaglia P, Tolomeo P, Rapezzi C. Acute myocarditis after SARS-CoV-2 vaccination in a 24-year-old man. *Rev Port Cardiol.* 2022 Jan;41(1):71-72. doi: 10.1016/j.repc.2021.07.005. Epub 2021 Jul 24. PMID: 34334935; PMCID: PMC8302854. <https://www.sciencedirect.com/science/article/pii/S0870255121003243>
295. Long SS. Important Insights into Myopericarditis after the Pfizer mRNA COVID-19 Vaccination in Adolescents. *J Pediatr.* 2021 Nov;238:5. doi: 10.1016/j.jpeds.2021.07.057. Epub 2021 Jul 29. PMID: 34332972; PMCID: PMC8440228. <https://www.sciencedirect.com/science/article/pii/S0022347621007496>
296. Dickey JB, Albert E, Badr M, et al. A Series of Patients With Myocarditis Following SARS-CoV-2 Vaccination With mRNA-1279 and BNT162b2. *JACC Cardiovasc Imaging.* 2021 Sep;14(9):1862-1863. doi: 10.1016/j.jcmg.2021.06.003. Epub 2021 Jun 16. PMID:

- 34246585; PMCID:
PMC8219373. <https://www.sciencedirect.com/science/article/pii/S1936878X21004861>
297. Boscolo Berto M, Spano G, Wagner Bet al. Takotsubo Cardiomyopathy After mRNA COVID-19 Vaccination. *Heart Lung Circ.* 2021 Dec;30(12):e119-e120. doi: 10.1016/j.hlc.2021.06.521. Epub 2021 Jul 15. PMID: 34330629; PMCID: PMC8279960. <https://www.sciencedirect.com/science/article/pii/S1443950621011331>
298. Singh B, Kaur P, Cedeno L, et al. COVID-19 mRNA Vaccine and Myocarditis. *Eur J Case Rep Intern Med.* 2021 Jun 14;8(7):002681. doi: 10.12890/2021_002681. PMID: 34268277; PMCID: PMC8276934. <https://pubmed.ncbi.nlm.nih.gov/34268277/>
299. Salah HM, Mehta JL. COVID-19 Vaccine and Myocarditis. *Am J Cardiol.* 2021 Oct 15;157:146-148. doi: 10.1016/j.amjcard.2021.07.009. Epub 2021 Jul 12. PMID: 34399967; PMCID: PMC8272967. <https://pubmed.ncbi.nlm.nih.gov/34399967/>
300. Fadah K, Abolbashari M, Ojha C, Alkhateeb H. Acute Myopericarditis After First Dose of mRNA-1273 SARS-CoV-2 Vaccine in a Young Adult. *Cureus.* 2022 Feb 11;14(2):e22111. doi: 10.7759/cureus.22111. PMID: 35308760; PMCID: PMC8918282.
301. Park H, Yun KW, Kim KR, et al. Epidemiology and Clinical Features of Myocarditis/Pericarditis before the Introduction of mRNA COVID-19 Vaccine in Korean Children: a Multicenter Study. *J Korean Med Sci.* 2021 Aug 16;36(32):e232. doi: 10.3346/jkms.2021.36.e232. PMID: 34402230; PMCID: PMC8369310. <https://search.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/en/covidwho-1360706>.
302. Kerneis M, Bihan K, Salem JE. COVID-19 vaccines and myocarditis. *Arch Cardiovasc Dis.* 2021 Jun-Jul;114(6-7):515-517. doi: 10.1016/j.acvd.2021.06.001. Epub 2021 Jun 26. PMID: 34246566; PMCID: PMC8233865. <https://pubmed.ncbi.nlm.nih.gov/34246566/>
303. Vidula MK, Ambrose M, Glassberg H, et al. Myocarditis and Other Cardiovascular Complications of the mRNA-Based COVID-19 Vaccines. *Cureus.* 2021 Jun 10;13(6):e15576. doi: 10.7759/cureus.15576. PMID: 34277198; PMCID: PMC8270057. <https://www.cureus.com/articles/61030-myocarditis-and-other-cardiovascular-complications-of-the-mrna-based-covid-19-vaccines>
304. Pepe S, Gregory AT, Denniss AR. Myocarditis, Pericarditis and Cardiomyopathy After COVID-19 Vaccination. *Heart Lung Circ.* 2021 Oct;30(10):1425-1429. doi: 10.1016/j.hlc.2021.07.011. Epub 2021 Jul 31. PMID: 34340927; PMCID: PMC8324414. <https://pubmed.ncbi.nlm.nih.gov/34340927/>
305. Bozkurt B, Kamat I, Hotez PJ. Myocarditis With COVID-19 mRNA Vaccines. *Circulation.* 2021 Aug 10;144(6):471-484. doi: 10.1161/CIRCULATIONAHA.121.056135. Epub 2021 Jul 20. PMID: 34281357; PMCID: PMC8340726. <https://www.ahajournals.org/doi/10.1161/CIRCULATIONAHA.121.056135>

306. Dionne A, Sperotto F, Chamberlain S, et al. Association of Myocarditis With BNT162b2 Messenger RNA COVID-19 Vaccine in a Case Series of Children. *JAMA Cardiol.* 2021 Dec 1;6(12):1446-1450. doi: 10.1001/jamacardio.2021.3471. PMID: 34374740; PMCID: PMC8356143. <https://jamanetwork.com/journals/jamacardiology/fullarticle/2783052>
307. Montgomery J, Ryan M, Engler R, et al. Myocarditis Following Immunization With mRNA COVID-19 Vaccines in Members of the US Military. *JAMA Cardiol.* 2021 Oct 1;6(10):1202-1206. doi: 10.1001/jamacardio.2021.2833. PMID: 34185045; PMCID: PMC8243257. <https://jamanetwork.com/journals/jamacardiology/fullarticle/2781601%5C>
308. Shay DK, Shimabukuro TT, DeStefano F. Myocarditis Occurring After Immunization With mRNA-Based COVID-19 Vaccines. *JAMA Cardiol.* 2021 Oct 1;6(10):1115-1117. doi: 10.1001/jamacardio.2021.2821. PMID: 34185047. <https://jamanetwork.com/journals/jamacardiology/fullarticle/2781600>
309. Verma AK, Lavine KJ, Lin CY. Myocarditis after Covid-19 mRNA Vaccination. *N Engl J Med.* 2021 Sep 30;385(14):1332-1334. doi: 10.1056/NEJMc2109975. Epub 2021 Aug 18. PMID: 34407340; PMCID: PMC8385564. <https://www.nejm.org/doi/full/10.1056/NEJMc2109975>
310. Kim HW, Jenista ER, Wendell DC, et al. Patients With Acute Myocarditis Following mRNA COVID-19 Vaccination. *JAMA Cardiol.* 2021 Oct 1;6(10):1196-1201. doi: 10.1001/jamacardio.2021.2828. PMID: 34185046; PMCID: PMC8243258. <https://jamanetwork.com/journals/jamacardiology/fullarticle/2781602>
311. Starekova J, Bluemke DA, Bradham WS, et al. Myocarditis Associated with mRNA COVID-19 Vaccination. *Radiology.* 2021 Nov;301(2):E409-E411. doi: 10.1148/radiol.2021211430. Epub 2021 Jul 20. PMID: 34282971; PMCID: PMC8574056. <https://pubs.rsna.org/doi/10.1148/radiol.2021211430>
312. Marshall M, Ferguson ID, Lewis P, et al. Symptomatic Acute Myocarditis in 7 Adolescents After Pfizer-BioNTech COVID-19 Vaccination. *Pediatrics.* 2021 Sep;148(3):e2021052478. doi: 10.1542/peds.2021-052478. Epub 2021 Jun 4. PMID: 34088762. <https://pediatrics.aappublications.org/content/148/3/e2021052478>
313. Patel YR, Louis DW, Atalay M, et al. Cardiovascular magnetic resonance findings in young adult patients with acute myocarditis following mRNA COVID-19 vaccination: a case series. *J Cardiovasc Magn Reson.* 2021 Sep 9;23(1):101. doi: 10.1186/s12968-021-00795-4. PMID: 34496880; PMCID: PMC8425992. <https://jcmr-online.biomedcentral.com/articles/10.1186/s12968-021-00795-4>
314. Wong P, McCrindle B, Wong K. Clinical Guidance for Young People with Myocarditis and Pericarditis after Vaccination with COVID-19 mRNA 2021 sept 1. *Canadian Pediatric*

Society. <https://www.cps.ca/en/documents/position/clinical-guidance-for-youth-with-myocarditis-and-pericarditis>

315. Kim IC, Kim H, Lee HJ, et al. Cardiac Imaging of Acute Myocarditis Following COVID-19 mRNA Vaccination. *J Korean Med Sci*. 2021 Aug 16;36(32):e229. doi: 10.3346/jkms.2021.36.e229. PMID: 34402228; PMCID: PMC8369314. <https://pubmed.ncbi.nlm.nih.gov/34402228/>
316. Snapiri O, Rosenberg Danziger C, Shirman N, et al. Transient Cardiac Injury in Adolescents Receiving the BNT162b2 mRNA COVID-19 Vaccine. *Pediatr Infect Dis J*. 2021 Oct 1;40(10):e360-e363. doi: 10.1097/INF.0000000000003235. PMID: 34077949; PMCID: PMC8443419. [https://journals.lww.com/pidj/Abstract/9000/Transient Cardiac Injury in Adolescents Receiving.95800.aspx](https://journals.lww.com/pidj/Abstract/9000/Transient_Cardiac_Injury_in_Adolescents_Receiving.95800.aspx)
317. Tano E, San Martin S, Girgis S, et al. Perimyocarditis in Adolescents After Pfizer-BioNTech COVID-19 Vaccine. *J Pediatric Infect Dis Soc*. 2021 Nov 11;10(10):962-966. doi: 10.1093/jpids/piab060. PMID: 34319393; PMCID: PMC8344528. <https://academic.oup.com/jpids/advance-article/doi/10.1093/jpids/piab060/6329543>
318. Lazaros G, Klein AL, Hatziantoniou S, et al. The Novel Platform of mRNA COVID-19 Vaccines and Myocarditis: Clues into the Potential Underlying Mechanism. *Vaccine*. 2021 Aug 16;39(35):4925-4927. doi: 10.1016/j.vaccine.2021.07.016. Epub 2021 Jul 13. PMID: 34312010; PMCID: PMC8275472. <https://pubmed.ncbi.nlm.nih.gov/34312010/>
319. Deb A, Abdelmalek J, Iwuji K, et al. Acute Myocardial Injury Following COVID-19 Vaccination: A Case Report and Review of Current Evidence from Vaccine Adverse Events Reporting System Database. *J Prim Care Community Health*. 2021 Jan-Dec;12:21501327211029230. doi: 10.1177/21501327211029230. PMID: 34219532; PMCID: PMC8255555. <https://pubmed.ncbi.nlm.nih.gov/34219532/>
320. Han T, Ma W, Shang, Wang C. Be Alert to the Risk of Adverse Cardiovascular Events after COVID-19 vaccination. *Exploratory Research and Hypothesis in Medicine*. 2020. <https://www.xiahepublishing.com/2472-0712/ERHM-2021-00033>
321. Muthukumar A, Narasimhan M, Li QZ, et al. In-Depth Evaluation of a Case of Presumed Myocarditis After the Second Dose of COVID-19 mRNA Vaccine. *Circulation*. 2021 Aug 10;144(6):487-498. doi: 10.1161/CIRCULATIONAHA.121.056038. Epub 2021 Jun 16. PMID: 34133883; PMCID: PMC8340727. <https://www.ahajournals.org/doi/10.1161/CIRCULATIONAHA.121.056038>
322. Chamling B, Vehof V, Drakos S, et al. Occurrence of acute infarct-like myocarditis following COVID-19 vaccination: just an accidental co-incidence or rather vaccination-associated autoimmune myocarditis? *Clin Res Cardiol*. 2021 Nov;110(11):1850-1854. doi: 10.1007/s00392-021-01916-w. Epub 2021 Jul 31. PMID: 34333695; PMCID: PMC8325525. <https://pubmed.ncbi.nlm.nih.gov/34333695/>

323. Minocha PK, Better D, Singh RK, et al. Recurrence of Acute Myocarditis Temporally Associated with Receipt of the mRNA Coronavirus Disease 2019 (COVID-19) Vaccine in a Male Adolescent. *J Pediatr*. 2021;238:321-323. doi:10.1016/j.jpeds.2021.06.035 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8216855/>
324. D'Angelo T, Cattafi A, Carerj ML, et al. Myocarditis After SARS-CoV-2 Vaccination: A Vaccine-Induced Reaction? *Can J Cardiol*. 2021 Oct;37(10):1665-1667. doi: 10.1016/j.cjca.2021.05.010. Epub 2021 Jun 9. PMID: 34118375; PMCID: PMC8187737. <https://pubmed.ncbi.nlm.nih.gov/34118375/>
325. Park J, Brekke DR, Bratincsak A. Self-limited myocarditis presenting with chest pain and ST segment elevation in adolescents after vaccination with the BNT162b2 mRNA vaccine. *Cardiol Young*. 2022 Jan;32(1):146-149. doi: 10.1017/S1047951121002547. Epub 2021 Jun 28. PMID: 34180390. <https://pubmed.ncbi.nlm.nih.gov/34180390/>
326. McLean K, Johnson TJ. Myopericarditis in a previously healthy adolescent male following COVID-19 vaccination: A case report. *Acad Emerg Med*. 2021 Aug;28(8):918-921. doi: 10.1111/acem.14322. Epub 2021 Jul 21. PMID: 34133825; PMCID: PMC8441784. <https://pubmed.ncbi.nlm.nih.gov/34133825/>
327. Ehrlich P, Klingel K, Ohlmann-Knafo S, et al. Biopsy-proven lymphocytic myocarditis following first mRNA COVID-19 vaccination in a 40-year-old male: case report. *Clin Res Cardiol*. 2021 Nov;110(11):1855-1859. doi: 10.1007/s00392-021-01936-6. Epub 2021 Sep 6. PMID: 34487236; PMCID: PMC8419377. <https://pubmed.ncbi.nlm.nih.gov/34487236/>
328. Hasnie AA, Hasnie UA, Patel N, Aziz MU, Xie M, Lloyd SG, Prabhu SD. Perimyocarditis following first dose of the mRNA-1273 SARS-CoV-2 (Moderna) vaccine in a healthy young male: a case report. *BMC Cardiovasc Disord*. 2021 Aug 4;21(1):375. doi: 10.1186/s12872-021-02183-3. PMID: 34348657; PMCID: PMC8334333.
329. Cereda A, Conca C, Barbieri L, et al. Acute myocarditis after the second dose of SARS-CoV-2 vaccine: Serendipity or atypical causal relationship? *Anatol J Cardiol*. 2021 Jul;25(7):522-523. doi: 10.5152/AnatolJCardiol.2021.99. PMID: 34236331; PMCID: PMC8274899. <https://pubmed.ncbi.nlm.nih.gov/34236331/>
330. Bautista García J, Peña Ortega P, Bonilla Fernández JA, et al. Miocarditis aguda tras administración de vacuna BNT162b2 contra la COVID-19 [Acute myocarditis after administration of the BNT162b2 vaccine against COVID-19]. *Rev Esp Cardiol*. 2021 Sep;74(9):812-814. Spanish. doi: 10.1016/j.recesp.2021.03.009. Epub 2021 Mar 20. PMID: 33776190; PMCID: PMC7980176. <https://www.sciencedirect.com/science/article/abs/pii/S188558572100133X>

331. Vidula MK, Ambrose M, Glassberg H, et al. Myocarditis and Other Cardiovascular Complications of the mRNA-Based COVID-19 Vaccines. *Cureus*. 2021 Jun 10;13(6):e15576. doi: 10.7759/cureus.15576. PMID: 34277198; PMCID: PMC8270057. <https://pubmed.ncbi.nlm.nih.gov/34277198/>
332. Ramírez-García A, Lozano Jiménez S, Darnaude Ximénez I, et al. Pericarditis after administration of the BNT162b2 mRNA COVID-19 vaccine. *Rev Esp Cardiol (Engl Ed)*. 2021 Dec;74(12):1120-1122. doi: 10.1016/j.rec.2021.07.005. Epub 2021 Jul 16. PMID: 34364831; PMCID: PMC8282480. <https://pubmed.ncbi.nlm.nih.gov/34364831/>
333. Khogali F, Abdelrahman R. Unusual Presentation of Acute Perimyocarditis Following SARS-COV-2 mRNA-1237 Moderna Vaccination. *Cureus*. 2021 Jul 23;13(7):e16590. doi: 10.7759/cureus.16590. PMID: 34447639; PMCID: PMC8381757. <https://pubmed.ncbi.nlm.nih.gov/34447639/>
334. Knowlton KU. Insights from a murine model of COVID-19 mRNA vaccination-induced myopericarditis: Could accidental intravenous vaccine injection induce myopericarditis? *Clin Infect Dis*. 2021 Aug 28:ciab741. doi: 10.1093/cid/ciab741. Epub ahead of print. PMID: 34453510. <https://pubmed.ncbi.nlm.nih.gov/34453510/>
335. łaźniak-Pfajfer A, Surmacz R, Rajewska-Tabor J, et al. Myocarditis associated with COVID-19 vaccination in three teenage males. *Pol Arch Intern Med*. 2021 Dec 1. doi: 10.20452/pamw.16160. Epub ahead of print. PMID: 34851078. <https://pubmed.ncbi.nlm.nih.gov/34851078/>.
336. Patel YR, Louis DW, Atalay M, et al. Cardiovascular magnetic resonance findings in young adult patients with acute myocarditis following mRNA COVID-19 vaccination: a case series. *J Cardiovasc Magn Reson*. 2021 Sep 9;23(1):101. doi: 10.1186/s12968-021-00795-4. PMID: 34496880; PMCID: PMC8425992. <https://pubmed.ncbi.nlm.nih.gov/34496880/>
337. Tinoco M, Leite S, Faria B, et al. Perimyocarditis Following COVID-19 Vaccination. *Clin Med Insights Cardiol*. 2021 Nov 24;15:11795468211056634. doi: 10.1177/11795468211056634. PMID: 34866957; PMCID: PMC8637777. <https://pubmed.ncbi.nlm.nih.gov/34866957/>
338. Chua GT, Kwan MYW, Chui CSL, et al. Epidemiology of Acute Myocarditis/Pericarditis in Hong Kong Adolescents Following Comirnaty Vaccination. *Clin Infect Dis*. 2021 Nov 28:ciab989. doi: 10.1093/cid/ciab989. Epub ahead of print. PMID: 34849657; PMCID: PMC8767823. <https://pubmed.ncbi.nlm.nih.gov/34849657/>.
339. Choi S, Lee S, Seo JW, et al. Myocarditis-induced Sudden Death after BNT162b2 mRNA COVID-19 Vaccination in Korea: Case Report Focusing on Histopathological Findings. *J Korean Med Sci*. 2021 Oct 18;36(40):e286. doi: 10.3346/jkms.2021.36.e286. PMID: 34664804; PMCID: PMC8524235. <https://pubmed.ncbi.nlm.nih.gov/34664804/>

340. Simone A, Herald J, Chen A, et al. Acute Myocarditis Following COVID-19 mRNA Vaccination in Adults Aged 18 Years or Older. *JAMA Intern Med.* 2021 Dec 1;181(12):1668-1670. doi: 10.1001/jamainternmed.2021.5511. PMID: 34605853; PMCID: PMC8491129. <https://pubmed.ncbi.nlm.nih.gov/34605853/>
341. Minocha PK, Better D, Singh RK, et al. Recurrence of Acute Myocarditis Temporally Associated with Receipt of the mRNA Coronavirus Disease 2019 (COVID-19) Vaccine in a Male Adolescent. *J Pediatr.* 2021 Nov;238:321-323. doi: 10.1016/j.jpeds.2021.06.035. Epub 2021 Jun 22. PMID: 34166671; PMCID: PMC8216855. <https://pubmed.ncbi.nlm.nih.gov/34166671/>
342. Kaneta K, Yokoi K, Jojima K, et al. Young Male With Myocarditis Following mRNA-1273 Vaccination Against Coronavirus Disease-2019 (COVID-19). *Circ J.* 2021 Nov 6. doi: 10.1253/circj.CJ-21-0818. Epub ahead of print. PMID: 34744118. <https://pubmed.ncbi.nlm.nih.gov/34744118/>
343. Cimaglia P, Tolomeo P, Rapezzi C. Acute myocarditis after SARS-CoV-2 vaccination in a 24-year-old man. *Rev Port Cardiol.* 2022 Jan;41(1):71-72. doi: 10.1016/j.repc.2021.07.005. Epub 2021 Jul 24. PMID: 34334935; PMCID: PMC8302854. <https://pubmed.ncbi.nlm.nih.gov/34334935/>.
344. Boursier C, Chevalier E, Filippetti L, et al. 68Ga-DOTATOC digital-PET imaging of inflammatory cell infiltrates in myocarditis following COVID-19 vaccination. *Eur J Nucl Med Mol Imaging.* 2021 Nov 8:1–2. doi: 10.1007/s00259-021-05609-4. Epub ahead of print. PMID: 34746968; PMCID: PMC8572651. <https://pubmed.ncbi.nlm.nih.gov/34746968/>
345. Chamling B, Vehof V, Drakos S, et al. Occurrence of acute infarct-like myocarditis following COVID-19 vaccination: just an accidental co-incidence or rather vaccination-associated autoimmune myocarditis? *Clin Res Cardiol.* 2021 Nov;110(11):1850-1854. doi: 10.1007/s00392-021-01916-w. Epub 2021 Jul 31. PMID: 34333695; PMCID: PMC8325525. <https://pubmed.ncbi.nlm.nih.gov/34333695/>.
346. Park J, Brekke DR, Bratincsak A. Self-limited myocarditis presenting with chest pain and ST segment elevation in adolescents after vaccination with the BNT162b2 mRNA vaccine. *Cardiol Young.* 2022 Jan;32(1):146-149. doi: 10.1017/S1047951121002547. Epub 2021 Jun 28. PMID: 34180390. <https://pubmed.ncbi.nlm.nih.gov/34180390/>
347. Montgomery J, Ryan M, Engler R, et al. Myocarditis Following Immunization With mRNA COVID-19 Vaccines in Members of the US Military. *JAMA Cardiol.* 2021 Oct 1;6(10):1202-1206. doi: 10.1001/jamacardio.2021.2833. PMID: 34185045; PMCID: PMC8243257. <https://pubmed.ncbi.nlm.nih.gov/34185045/>
348. Watkins K, Griffin G, Septaric K, et al. Myocarditis after BNT162b2 vaccination in a healthy male. *Am J Emerg Med.* 2021 Dec;50:815.e1-815.e2. doi: 10.1016/j.ajem.2021.06.051.

- Epub 2021 Jun 29. PMID: 34229940; PMCID: PMC8238643. <https://pubmed.ncbi.nlm.nih.gov/34229940/>
349. McLean K, Johnson TJ. Myopericarditis in a previously healthy adolescent male following COVID-19 vaccination: A case report. *Acad Emerg Med*. 2021 Aug;28(8):918-921. doi: 10.1111/acem.14322. Epub 2021 Jul 21. PMID: 34133825; PMCID: PMC8441784. <https://pubmed.ncbi.nlm.nih.gov/34133825/>
350. Williams CB, Choi JI, Hosseini F, et al. Acute Myocarditis Following mRNA-1273 SARS-CoV-2 Vaccination. *CJC Open*. 2021 Nov;3(11):1410-1412. doi: 10.1016/j.cjco.2021.07.008. Epub 2021 Jul 14. PMID: 34308326; PMCID: PMC8278869. <https://pubmed.ncbi.nlm.nih.gov/34308326/>.
351. Takase B, Hayashi K, Hisada T, et al. Chest Pain with New Abnormal Electrocardiogram Development after Injection of COVID-19 Vaccine Manufactured by Moderna. *Intern Med*. 2021 Dec 4. doi: 10.2169/internalmedicine.8711-21. Epub ahead of print. PMID: 34866106. <https://pubmed.ncbi.nlm.nih.gov/34866106/>
352. Ehrlich P, Klingel K, Ohlmann-Knafo S, et al. Biopsy-proven lymphocytic myocarditis following first mRNA COVID-19 vaccination in a 40-year-old male: case report. *Clin Res Cardiol*. 2021 Nov;110(11):1855-1859. doi: 10.1007/s00392-021-01936-6. Epub 2021 Sep 6. PMID: 34487236; PMCID: PMC8419377. <https://pubmed.ncbi.nlm.nih.gov/34487236/>
353. Kadwalwala M, Chadha B, Ortoleva J, et al. Multimodality imaging and histopathology in a young man presenting with fulminant lymphocytic myocarditis and cardiogenic shock after mRNA-1273 vaccination. *BMJ Case Rep*. 2021 Nov 30;14(11):e246059. doi: 10.1136/bcr-2021-246059. PMID: 34848416; PMCID: PMC8634223. <https://pubmed.ncbi.nlm.nih.gov/34848416/>
354. Kim D, Choi JH, Jang JY, et al. A Case Report for Myopericarditis after BNT162b2 COVID-19 mRNA Vaccination in a Korean Young Male. *J Korean Med Sci*. 2021 Oct 11;36(39):e277. doi: 10.3346/jkms.2021.36.e277. PMID: 34636504; PMCID: PMC8506415. <https://pubmed.ncbi.nlm.nih.gov/34636504/>
355. Patrignani A, Schicchi N, Calcagnoli F, et al. Acute myocarditis following Comirnaty vaccination in a healthy man with previous SARS-CoV-2 infection. *Radiol Case Rep*. 2021 Nov;16(11):3321-3325. doi: 10.1016/j.radcr.2021.07.082. Epub 2021 Aug 2. PMID: 34367386; PMCID: PMC8326008. <https://pubmed.ncbi.nlm.nih.gov/34367386/>
356. Lim Y, Kim MC, Kim KH, et al. Case Report: Acute Fulminant Myocarditis and Cardiogenic Shock After Messenger RNA Coronavirus Disease 2019 Vaccination Requiring Extracorporeal Cardiopulmonary Resuscitation. *Front Cardiovasc Med*. 2021 Oct 29;8:758996. doi: 10.3389/fcvm.2021.758996. PMID: 34778411; PMCID: PMC8586196. <https://pubmed.ncbi.nlm.nih.gov/34778411/>

357. Joob B, Wiwanitkit V. Acute myocarditis after coronavirus disease 2019 vaccination. *Anatol J Cardiol.* 2021 Nov;25(11):841-842. doi: 10.5152/AnatolJCardiol.2021.689. PMID: 34734821; PMCID: PMC8575404. <https://pubmed.ncbi.nlm.nih.gov/34734821/>
358. Singh A, Nguyen L, Everest S, Afzal S, Shim A. Acute Pericarditis Post mRNA-1273 COVID Vaccine Booster. *Cureus.* 2022 Feb 12;14(2):e22148. doi: 10.7759/cureus.22148. PMID: 35308666; PMCID: PMC8919431.
359. Dickey JB, Albert E, Badr M, et al. A Series of Patients With Myocarditis Following SARS-CoV-2 Vaccination With mRNA-1279 and BNT162b2. *JACC Cardiovasc Imaging.* 2021 Sep;14(9):1862-1863. doi: 10.1016/j.jcmg.2021.06.003. Epub 2021 Jun 16. PMID: 34246585; PMCID: PMC8219373. <https://pubmed.ncbi.nlm.nih.gov/34246585/>
360. Schauer J, Buddhe S, Colyer J, et al. Myopericarditis After the Pfizer Messenger Ribonucleic Acid Coronavirus Disease Vaccine in Adolescents. *J Pediatr.* 2021 Nov;238:317-320. doi: 10.1016/j.jpeds.2021.06.083. Epub 2021 Jul 3. PMID: 34228985; PMCID: PMC8253718. <https://pubmed.ncbi.nlm.nih.gov/34228985/>
361. Choi YK, Moon JY, Kim J, et al. Postvaccination Multisystem Inflammatory Syndrome in Adult with No Evidence of Prior SARS-CoV-2 Infection. *Emerg Infect Dis.* 2022 Feb;28(2):411-414. doi: 10.3201/eid2802.211938. Epub 2021 Dec 1. PMID: 34852213; PMCID: PMC8798698. <https://pubmed.ncbi.nlm.nih.gov/34852213/>
362. Maeda M, Isawa T, Tada N. Definite Acute Myocarditis After Coronavirus Disease 2019 mRNA Vaccination. *Circ J.* 2021 Dec 4. doi: 10.1253/circj.CJ-21-0840. Epub ahead of print. PMID: 34866122. <https://pubmed.ncbi.nlm.nih.gov/34866122/>
363. Maki H, Aikawa T, Ibe T, et al. Biventricular systolic dysfunction in acute myocarditis after SARS-CoV-2 mRNA-1273 vaccination. *Eur Heart J Cardiovasc Imaging.* 2022 Jan 24;23(2):e87. doi: 10.1093/ehjci/jeab206. PMID: 34601566. <https://pubmed.ncbi.nlm.nih.gov/34601566/>
364. Shiyovich A, Witberg G, Aviv Y, et al. Myocarditis following COVID-19 vaccination: magnetic resonance imaging study. *Eur Heart J Cardiovasc Imaging.* 2021 Nov 5;jeab230. doi: 10.1093/ehjci/jeab230. Epub ahead of print. PMID: 34739045. <https://pubmed.ncbi.nlm.nih.gov/34739045/>.
365. Schmitt P, Demoulin R, Poyet R, et al. Acute Myocarditis after COVID-19 vaccination: A case report. *Rev Med Interne.* 2021 Nov;42(11):797-800. doi: 10.1016/j.revmed.2021.10.003. Epub 2021 Oct 19. PMID: 34740463; PMCID: PMC8523482. https://docs.google.com/document/d/1Hc4bh_qNbZ7UVm5BLxkRdMPnnl9zcCsl/e
366. Dionne A, Sperotto F, Chamberlain S, et al. Association of Myocarditis With BNT162b2 Messenger RNA COVID-19 Vaccine in a Case Series of Children. *JAMA Cardiol.* 2021 Dec

- 1;6(12):1446-1450. doi: 10.1001/jamacardio.2021.3471. PMID: 34374740; PMCID: PMC8356143. <https://pubmed.ncbi.nlm.nih.gov/34374740/>
367. Truong DT, Dionne A, Muniz JC, et al. Clinically Suspected Myocarditis Temporally Related to COVID-19 Vaccination in Adolescents and Young Adults: Suspected Myocarditis After COVID-19 Vaccination. *Circulation*. 2022 Feb;145(5):345-356. doi: 10.1161/CIRCULATIONAHA.121.056583. Epub 2021 Dec 6. PMID: 34865500. <https://pubmed.ncbi.nlm.nih.gov/34865500/>
368. Murakami Y, Shinohara M, Oka Y, et al. Myocarditis Following a COVID-19 Messenger RNA Vaccination: A Japanese Case Series. *Intern Med*. 2021 Nov 27. doi: 10.2169/internalmedicine.8731-21. Epub ahead of print. PMID: 34840235. <https://www.ncbi.nlm.nih.gov/pubmed/34840235>
369. Nagasaka T, Koitabashi N, Ishibashi Y, et al. Acute Myocarditis Associated with COVID-19 Vaccination: A Case Report. *J Cardiol Cases*. 2021 Dec 3. doi: 10.1016/j.jccase.2021.11.006. Epub ahead of print. PMID: 34876937; PMCID: PMC8639400. <https://www.ncbi.nlm.nih.gov/pubmed/34876937>
370. Ujueta F, Azimi R, Lozier MR, et al. Lymphohistocytic myocarditis after Ad26.COV2.S viral vector COVID-19 vaccination. *Int J Cardiol Heart Vasc*. 2021 Oct;36:100869. doi: 10.1016/j.ijcha.2021.100869. Epub 2021 Sep 7. PMID: 34514078; PMCID: PMC8421108. <https://pubmed.ncbi.nlm.nih.gov/34514078/>
371. Chua GT, Kwan MYW, Chui CSL, et al. Epidemiology of Acute Myocarditis/Pericarditis in Hong Kong Adolescents Following Comirnaty Vaccination. *Clin Infect Dis*. 2021 Nov 28:ciab989. doi: 10.1093/cid/ciab989. Epub ahead of print. PMID: 34849657; PMCID: PMC8767823. <https://academic.oup.com/cid/advance-article-abstract/doi/10.1093/cid/ciab989/6445179>.
372. Perez Y, Levy ER, Joshi AY, et al. Myocarditis Following COVID-19 mRNA Vaccine: A Case Series and Incidence Rate Determination. *Clin Infect Dis*. 2021 Nov 3:ciab926. doi: 10.1093/cid/ciab926. Epub ahead of print. PMID: 34734240; PMCID: PMC8767838. <https://academic.oup.com/cid/advance-article/doi/10.1093/cid/ciab926/6420408>
373. Li M, Yuan J, Lv G, et al. Myocarditis and Pericarditis following COVID-19 Vaccination: Inequalities in Age and Vaccine Types. *J Pers Med*. 2021 Oct 28;11(11):1106. doi: 10.3390/jpm11111106. PMID: 34834458; PMCID: PMC8624452. <https://www.mdpi.com/2075-4426/11/11/1106>
374. Park H, Yun KW, Kim KR, et al. Epidemiology and Clinical Features of Myocarditis/Pericarditis before the Introduction of mRNA COVID-19 Vaccine in Korean Children: a Multicenter Study. *J Korean Med Sci*. 2021 Aug 16;36(32):e232. doi: 10.3346/jkms.2021.36.e232. PMID: 34402230; PMCID: PMC8369310. <https://pubmed.ncbi.nlm.nih.gov/34402230/>

375. Hajjo R, Sabbah DA, Bardaweel SK, et al. Shedding the Light on Post-Vaccine Myocarditis and Pericarditis in COVID-19 and Non-COVID-19 Vaccine Recipients. *Vaccines (Basel)*. 2021 Oct 15;9(10):1186. doi: 10.3390/vaccines9101186. PMID: 34696294; PMCID: PMC8541143. <https://pubmed.ncbi.nlm.nih.gov/34696294/>
376. Visclosky T, Theyyuni N, Klekowski N, et al. Myocarditis Following mRNA COVID-19 Vaccine. *Pediatr Emerg Care*. 2021 Nov 1;37(11):583-584. doi: 10.1097/PEC.0000000000002557. PMID: 34731877. https://journals.lww.com/pec-online/Abstract/2021/11000/Myocarditis_Following_mRNA_COVID_19_Vaccine.9.aspx.
377. Pepe S, Gregory AT, Denniss AR. Myocarditis, Pericarditis and Cardiomyopathy After COVID-19 Vaccination. *Heart Lung Circ*. 2021 Oct;30(10):1425-1429. doi: 10.1016/j.hlc.2021.07.011. Epub 2021 Jul 31. PMID: 34340927; PMCID: PMC8324414. [https://www.heartlungcirc.org/article/S1443-9506\(21\)01156-2/fulltext](https://www.heartlungcirc.org/article/S1443-9506(21)01156-2/fulltext)
378. Vidula MK, Ambrose M, Glassberg H, et al. Myocarditis and Other Cardiovascular Complications of the mRNA-Based COVID-19 Vaccines. *Cureus*. 2021 Jun 10;13(6):e15576. doi: 10.7759/cureus.15576. PMID: 34277198; PMCID: PMC8270057. <https://pubmed.ncbi.nlm.nih.gov/34277198/>
379. Shaw KE, Cavalcante JL, Han BK, et al. Possible Association Between COVID-19 Vaccine and Myocarditis: Clinical and CMR Findings. *JACC Cardiovasc Imaging*. 2021 Sep;14(9):1856-1861. doi: 10.1016/j.jcmg.2021.06.002. Epub 2021 Jun 16. PMID: 34246586; PMCID: PMC8245050. <https://pubmed.ncbi.nlm.nih.gov/34246586/>
380. Kounis NG, Mplani V, Koniari I, et al. Hypersensitivity myocarditis and COVID-19 vaccines. *Kardiol Pol*. 2021 Dec 2. doi: 10.33963/KP.a2021.0166. Epub ahead of print. PMID: 34856634. <https://pubmed.ncbi.nlm.nih.gov/34856634/>.
381. Hendren NS, Carter S, Grodin JL. Severe COVID-19 vaccine associated myocarditis: Zebra or unicorn? *Int J Cardiol*. 2021 Nov 15;343:197-198. doi: 10.1016/j.ijcard.2021.09.036. Epub 2021 Sep 21. PMID: 34560165; PMCID: PMC8453875. [https://www.internationaljournalofcardiology.com/article/S0167-5273\(21\)01477-7/fulltext](https://www.internationaljournalofcardiology.com/article/S0167-5273(21)01477-7/fulltext).
382. Aye YN, Mai AS, Zhang A, et al. Acute Myocardial Infarction and Myocarditis following COVID-19 Vaccination. *QJM*. 2021 Sep 29;hcab252. doi: 10.1093/qjmed/hcab252. Epub ahead of print. PMID: 34586408; PMCID: PMC8522388. <https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8522388/>
383. Witberg G, Barda N, Hoss S, et al. Myocarditis after Covid-19 Vaccination in a Large Health Care Organization. *N Engl J Med*. 2021 Dec 2;385(23):2132-2139. doi: 10.1056/NEJMoa2110737. Epub 2021 Oct 6. PMID: 34614329; PMCID: PMC8531986. <https://www.nejm.org/doi/10.1056/NEJMoa2110737>

384. Dionne A, Sperotto F, Chamberlain S, et al. Association of Myocarditis With BNT162b2 Messenger RNA COVID-19 Vaccine in a Case Series of Children. *JAMA Cardiol.* 2021 Dec 1;6(12):1446-1450. doi: 10.1001/jamacardio.2021.3471. PMID: 34374740; PMCID: PMC8356143. <https://jamanetwork.com/journals/jamacardiology/fullarticle/2783052>
385. Truong DT, Dionne A, Muniz JC, et al. Clinically Suspected Myocarditis Temporally Related to COVID-19 Vaccination in Adolescents and Young Adults: Suspected Myocarditis After COVID-19 Vaccination. *Circulation.* 2022 Feb;145(5):345-356. doi: 10.1161/CIRCULATIONAHA.121.056583. Epub 2021 Dec 6. PMID: 34865500. https://www.ahajournals.org/doi/abs/10.1161/CIRCULATIONAHA.121.056583?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%20pubmed
386. Azir M, Inman B, Webb J, et al. STEMI Mimic: Focal Myocarditis in an Adolescent Patient After mRNA COVID-19 Vaccine. *J Emerg Med.* 2021 Dec;61(6):e129-e132. doi: 10.1016/j.jemermed.2021.09.017. Epub 2021 Sep 27. PMID: 34756746; PMCID: PMC8469220. <https://pubmed.ncbi.nlm.nih.gov/34756746/>
387. Istampoulouoglou I, Dimitriou G, Späni S, et al. Myocarditis and pericarditis in association with COVID-19 mRNA-vaccination: cases from a regional pharmacovigilance centre. *Glob Cardiol Sci Pract.* 2021 Oct 30;2021(3):e202118. doi: 10.21542/gcsp.2021.18. PMID: 34805376; PMCID: PMC8587334. <https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8587334/>
388. Koizumi T, Awaya T, Yoshioka K, et al. Myocarditis after COVID-19 mRNA vaccines. *QJM.* 2021 Dec 20;114(10):741-743. doi: 10.1093/qjmed/hcab244. PMID: 34546329. <https://pubmed.ncbi.nlm.nih.gov/34546329/>.
389. Kim HW, Jenista ER, Wendell DC, et al. Patients With Acute Myocarditis Following mRNA COVID-19 Vaccination. *JAMA Cardiol.* 2021 Oct 1;6(10):1196-1201. doi: 10.1001/jamacardio.2021.2828. PMID: 34185046; PMCID: PMC8243258. <https://jamanetwork.com/journals/jamacardiology/fullarticle/2781602>.
390. Levin D, Shimon G, Fadlon-Derai M, et al. Myocarditis following COVID-19 vaccination - A case series. *Vaccine.* 2021 Oct 8;39(42):6195-6200. doi: 10.1016/j.vaccine.2021.09.004. Epub 2021 Sep 4. PMID: 34535317; PMCID: PMC8416687. <https://www.sciencedirect.com/science/article/pii/S0264410X21011725?via%3Dihub>.
391. Chelala L, Jeudy J, Hossain R, et al. Cardiac MRI Findings of Myocarditis After COVID-19 mRNA Vaccination in Adolescents. *AJR Am J Roentgenol.* 2021 Oct 27. doi: 10.2214/AJR.21.26853. Epub ahead of print. PMID: 34704459. <https://pubmed.ncbi.nlm.nih.gov/34704459/>
392. Shiyovich A, Witberg G, Aviv Y, et al. Myocarditis following COVID-19 vaccination: magnetic resonance imaging study. *Eur Heart J Cardiovasc Imaging.* 2021 Nov 5;jeab230. doi: 10.1093/ehjci/jeab230. Epub ahead of print. PMID:

34739045. <https://academic.oup.com/ehjicimaging/advance-article/doi/10.1093/ehjci/jeab230/6421640>.
393. Miqdad, Mohammed A et al. "Acute Myocarditis Following the Administration of the Second BNT162b2 COVID-19 Vaccine Dose." *Cureus* vol. 13,10 e18880. 18 Oct. 2021, doi:10.7759/cureus.18880 <https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8599115/>
394. Kaul R, Sreenivasan J, Goel A, Malik A, et al. Myocarditis following COVID-19 vaccination. *Int J Cardiol Heart Vasc.* 2021 Oct;36:100872. doi: 10.1016/j.ijcha.2021.100872. Epub 2021 Sep 20. PMID: 34568540; PMCID: PMC8450283. <https://www.sciencedirect.com/science/article/pii/S2352906721001603>
395. Alania-Torres E, Morillas-Climent H, García-Escrivá A, et al. Case Report: Probable Myocarditis After Covid-19 mRNA Vaccine in a Patient With Arrhythmogenic Left Ventricular Cardiomyopathy. *Front Cardiovasc Med.* 2021 Oct 12;8:759119. doi: 10.3389/fcvm.2021.759119. PMID: 34712717; PMCID: PMC8545905. <https://pubmed.ncbi.nlm.nih.gov/34712717/>.
396. Bautista García J, Peña Ortega P, et al. Acute myocarditis after administration of the BNT162b2 vaccine against COVID-19. *Rev Esp Cardiol (Engl Ed).* 2021 Sep;74(9):812-814. doi: 10.1016/j.rec.2021.04.005. Epub 2021 Apr 27. PMID: 33994339; PMCID: PMC8075838. <https://www.revespcardiol.org/en-linkresolver-acute-myocarditis-after-administration-bnt162b2-S188558572100133X>.
397. Starekova J, Bluemke DA, Bradham WS, et al. Myocarditis Associated with mRNA COVID-19 Vaccination. *Radiology.* 2021 Nov;301(2):E409-E411. doi: 10.1148/radiol.2021211430. Epub 2021 Jul 20. PMID: 34282971; PMCID: PMC8574056. <https://pubs.rsna.org/doi/10.1148/radiol.2021211430>
398. Schmitt P, Demoulin R, Poyet R, et al. Acute Myocarditis after COVID-19 vaccination: A case report. *Rev Med Interne.* 2021 Nov;42(11):797-800. doi: 10.1016/j.revmed.2021.10.003. Epub 2021 Oct 19. PMID: 34740463; PMCID: PMC8523482. <https://www.sciencedirect.com/science/article/pii/S0248866321007098>
399. Ambati S, Colon M, Mihic M, Sanchez J, Bakar A. Acute Myopericarditis after COVID-19 Vaccine in Teenagers. *Case Rep Cardiol.* 2021 Sep 20;2021:8268755. doi: 10.1155/2021/8268755. PMID: 34589238; PMCID: PMC8476255. <https://pubmed.ncbi.nlm.nih.gov/34589238/>.
400. Tano E, San Martin S, Girgis S, et al. Perimyocarditis in Adolescents After Pfizer-BioNTech COVID-19 Vaccine. *J Pediatric Infect Dis Soc.* 2021 Nov 11;10(10):962-966. doi: 10.1093/jpids/piab060. PMID: 34319393; PMCID: PMC8344528. <https://academic.oup.com/jpids/article/10/10/962/6329543>.

401. Nevet A. Acute myocarditis associated with anti-COVID-19 vaccination. *Clin Exp Vaccine Res.* 2021 May;10(2):196-197. doi: 10.7774/cevr.2021.10.2.196. Epub 2021 May 31. PMID: 34222133; PMCID: PMC8217579. <https://ecevr.org/DOIx.php?id=10.7774/cevr.2021.10.2.196>.
402. Viskin D, Topilsky Y, Aviram G, et al. Myocarditis Associated With COVID-19 Vaccination: Echocardiography, Cardiac Tomography, and Magnetic Resonance Imaging Findings. *Circ Cardiovasc Imaging.* 2021 Sep;14(9):e013236. doi: 10.1161/CIRCIMAGING.121.013236. Epub 2021 Aug 25. PMID: 34428917; PMCID: PMC8478100. <https://pubmed.ncbi.nlm.nih.gov/34428917/>.
403. Marshall M, Ferguson ID, Lewis P, et al. Symptomatic Acute Myocarditis in 7 Adolescents After Pfizer-BioNTech COVID-19 Vaccination. *Pediatrics.* 2021 Sep;148(3):e2021052478. doi: 10.1542/peds.2021-052478. Epub 2021 Jun 4. PMID: 34088762. <https://pubmed.ncbi.nlm.nih.gov/34088762/>.
404. Foltran D, Delmas C, Flumian C, et al. Myocarditis and Pericarditis in Adolescents after First and Second doses of mRNA COVID-19 Vaccines. *Eur Heart J Qual Care Clin Outcomes.* 2021 Nov 26:qcab090. doi: 10.1093/ehjqcco/qcab090. Epub ahead of print. PMID: 34849667; PMCID: PMC8690190. <https://academic.oup.com/ehjqcco/advance-article/doi/10.1093/ehjqcco/qcab090/6442104>.
405. Calcaterra G, Mehta JL, de Gregorio C, Butera G, Neroni P, Fanos V, Bassareo PP. COVID 19 Vaccine for Adolescents. Concern about Myocarditis and Pericarditis. *Pediatric Reports.* 2021; 13(3):530-533. <https://www.mdpi.com/2036-7503/13/3/61>.
406. Parmar K, Mekraksakit P, Del Rio-Pertuz G, Sethi P, Motes A, Hughes M, Wischmeyer J, Carbajal L, Sosa EA. Myocarditis following COVID-19 mRNA vaccination. *Proc (Bayl Univ Med Cent).* 2021 Nov 15;35(2):209-213. doi: 10.1080/08998280.2021.1990743. PMID: 35256821; PMCID: PMC8607537.
407. Kim IC, Kim H, Lee HJ, et al. Cardiac Imaging of Acute Myocarditis Following COVID-19 mRNA Vaccination. *J Korean Med Sci.* 2021 Aug 16;36(32):e229. doi: 10.3346/jkms.2021.36.e229. PMID: 34402228; PMCID: PMC8369314. <https://pubmed.ncbi.nlm.nih.gov/34402228/>
408. Rosner CM, Genovese L, Tehrani BN, et al. Myocarditis Temporally Associated With COVID-19 Vaccination. *Circulation.* 2021 Aug 10;144(6):502-505. doi: 10.1161/CIRCULATIONAHA.121.055891. Epub 2021 Jun 16. PMID: 34133885; PMCID: PMC8340723. <https://pubmed.ncbi.nlm.nih.gov/34133885/>
409. Deb A, Abdelmalek J, Iwuji K, et al. Acute Myocardial Injury Following COVID-19 Vaccination: A Case Report and Review of Current Evidence from Vaccine Adverse Events Reporting System Database. *J Prim Care Community Health.* 2021 Jan-Dec;12:21501327211029230. doi: 10.1177/21501327211029230. PMID: 34219532; PMCID: PMC8255555. <https://pubmed.ncbi.nlm.nih.gov/34219532/>

410. Nagasaka T, Koitabashi N, Ishibashi Y, et al. Acute Myocarditis Associated with COVID-19 Vaccination: A Case Report [published online ahead of print, 2021 Dec 3]. *J Cardiol Cases*. 2021;10.1016/j.jccase.2021.11.006. doi:10.1016/j.jccase.2021.11.006 <https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8639400/>
411. Murakami Y, Shinohara M, Oka Y, et al. Myocarditis Following a COVID-19 Messenger RNA Vaccination: A Japanese Case Series. *Intern Med*. 2021 Nov 27. doi: 10.2169/internalmedicine.8731-21. Epub ahead of print. PMID: 34840235. <https://pubmed.ncbi.nlm.nih.gov/34840235/>.
412. Onderko L, Starobin B, Riviere AE, et al. Myocarditis in the Setting of Recent COVID-19 Vaccination. *Case Rep Cardiol*. 2021 Oct 19;2021:6806500. doi: 10.1155/2021/6806500. PMID: 34712497; PMCID: PMC8548171. <https://pubmed.ncbi.nlm.nih.gov/34712497/>.
413. Mansour J, Short RG, Bhalla S, et al. Acute myocarditis after a second dose of the mRNA COVID-19 vaccine: a report of two cases. *Clin Imaging*. 2021 Oct;78:247-249. doi: 10.1016/j.clinimag.2021.06.019. Epub 2021 Jun 18. PMID: 34166884; PMCID: PMC8216670. [https://www.clinicalimaging.org/article/S0899-7071\(21\)00265-5/fulltext](https://www.clinicalimaging.org/article/S0899-7071(21)00265-5/fulltext).
414. Chua GT, Kwan MYW, Chui CSL, et al. Epidemiology of Acute Myocarditis/Pericarditis in Hong Kong Adolescents Following Comirnaty Vaccination. *Clin Infect Dis*. 2021 Nov 28:ciab989. doi: 10.1093/cid/ciab989. Epub ahead of print. PMID: 34849657; PMCID: PMC8767823. <https://academic.oup.com/cid/advance-article-abstract/doi/10.1093/cid/ciab989/6445179>
415. Perez Y, Levy ER, Joshi AY, et al. Myocarditis Following COVID-19 mRNA Vaccine: A Case Series and Incidence Rate Determination. *Clin Infect Dis*. 2021 Nov 3:ciab926. doi: 10.1093/cid/ciab926. Epub ahead of print. PMID: 34734240; PMCID: PMC8767838. <https://academic.oup.com/cid/advance-article/doi/10.1093/cid/ciab926/6420408>.
416. Li M, Yuan J, Lv G, et al. Myocarditis and Pericarditis following COVID-19 Vaccination: Inequalities in Age and Vaccine Types. *J Pers Med*. 2021 Oct 28;11(11):1106. doi: 10.3390/jpm11111106. PMID: 34834458; PMCID: PMC8624452. <https://www.mdpi.com/2075-4426/11/11/1106>
417. Park H, Yun KW, Kim KR, et al. Epidemiology and Clinical Features of Myocarditis/Pericarditis before the Introduction of mRNA COVID-19 Vaccine in Korean Children: a Multicenter Study. *J Korean Med Sci*. 2021 Aug 16;36(32):e232. doi: 10.3346/jkms.2021.36.e232. PMID: 34402230; PMCID: PMC8369310. <https://pubmed.ncbi.nlm.nih.gov/34402230/>
418. Hajjo R, Sabbah DA, Bardaweel SK, et al. Shedding the Light on Post-Vaccine Myocarditis and Pericarditis in COVID-19 and Non-COVID-19 Vaccine Recipients. *Vaccines (Basel)*.

- 2021 Oct 15;9(10):1186. doi: 10.3390/vaccines9101186. PMID: 34696294; PMCID: PMC8541143. <https://pubmed.ncbi.nlm.nih.gov/34696294/>
419. Gargano JW, Wallace M, Hadler SC, et al. Use of mRNA COVID-19 Vaccine After Reports of Myocarditis Among Vaccine Recipients: Update from the Advisory Committee on Immunization Practices - United States, June 2021. *MMWR Morb Mortal Wkly Rep.* 2021 Jul 9;70(27):977-982. doi: 10.15585/mmwr.mm7027e2. PMID: 34237049; PMCID: PMC8312754. <https://www.ncbi.nlm.nih.gov/pubmed/34237049>
420. Gatti M, Raschi E, Moretti U, et al. Influenza Vaccination and Myo-Pericarditis in Patients Receiving Immune Checkpoint Inhibitors: Investigating the Likelihood of Interaction through the Vaccine Adverse Event Reporting System and VigiBase. *Vaccines (Basel).* 2021 Jan 4;9(1):19. doi: 10.3390/vaccines9010019. PMID: 33406694; PMCID: PMC7823897. <https://www.ncbi.nlm.nih.gov/pubmed/33406694>
421. Gautam N, Saluja P, Fudim M, et al. A Late Presentation of COVID-19 Vaccine-Induced Myocarditis. *Cureus.* 2021 Sep 11;13(9):e17890. doi: 10.7759/cureus.17890. PMID: 34660088; PMCID: PMC8504680. <https://www.ncbi.nlm.nih.gov/pubmed/34660088>
422. Gellad WF. Myocarditis after vaccination against covid-19. *BMJ.* 2021 Dec 16;375:n3090. doi: 10.1136/bmj.n3090. PMID: 34916217. <https://www.ncbi.nlm.nih.gov/pubmed/34916217>
423. Greenhawt M, Abrams EM, Shaker M, et al. The Risk of Allergic Reaction to SARS-CoV-2 Vaccines and Recommended Evaluation and Management: A Systematic Review, Meta-Analysis, GRADE Assessment, and International Consensus Approach. *J Allergy Clin Immunol Pract.* 2021 Oct;9(10):3546-3567. doi: 10.1016/j.jaip.2021.06.006. Epub 2021 Jun 18. PMID: 34153517; PMCID: PMC8248554. <https://www.ncbi.nlm.nih.gov/pubmed/34153517>
424. Haaf P, Kuster GM, Mueller C, et al. The very low risk of myocarditis and pericarditis after mRNA COVID-19 vaccination should not discourage vaccination. *Swiss Med Wkly.* 2021 Oct 19;151:w30087. doi: 10.4414/smw.2021.w30087. PMID: 34668687. <https://www.ncbi.nlm.nih.gov/pubmed/34668687>
425. Hasnie AA, Hasnie UA, Patel N, et al. Perimyocarditis following first dose of the mRNA-1273 SARS-CoV-2 (Moderna) vaccine in a healthy young male: a case report. *BMC Cardiovasc Disord.* 2021 Aug 4;21(1):375. doi: 10.1186/s12872-021-02183-3. PMID: 34348657; PMCID: PMC8334333. <https://www.ncbi.nlm.nih.gov/pubmed/34348657>
426. Abbate A, Gavin J, Madanchi N, et al. Fulminant myocarditis and systemic hyperinflammation temporally associated with BNT162b2 mRNA COVID-19 vaccination in two patients. *Int J Cardiol.* 2021 Oct 1;340:119-121. doi: 10.1016/j.ijcard.2021.08.018. Epub 2021 Aug 18. PMID: 34416319; PMCID: PMC8372420. <https://www.ncbi.nlm.nih.gov/pubmed/34416319>

427. Abu Mouch S, Roguin A, Hellou E, et al. Myocarditis following COVID-19 mRNA vaccination. *Vaccine*. 2021 Jun 29;39(29):3790-3793. doi: 10.1016/j.vaccine.2021.05.087. Epub 2021 May 28. PMID: 34092429; PMCID: PMC8162819. <https://www.ncbi.nlm.nih.gov/pubmed/34092429>
428. Albert E, Aurigemma G, Saucedo J, Gerson DS. Myocarditis following COVID-19 vaccination. *Radiol Case Rep*. 2021 Aug;16(8):2142-2145. doi: 10.1016/j.radcr.2021.05.033. Epub 2021 May 18. PMID: 34025885; PMCID: PMC8130498. <https://www.ncbi.nlm.nih.gov/pubmed/34025885>
429. Aye YN, Mai AS, Zhang A, et al. Acute Myocardial Infarction and Myocarditis following COVID-19 Vaccination. *QJM*. 2021 Sep 29;hcab252. doi: 10.1093/qjmed/hcab252. Epub ahead of print. PMID: 34586408; PMCID: PMC8522388. <https://www.ncbi.nlm.nih.gov/pubmed/34586408>
430. Azir M, Inman B, Webb J, et al. STEMI Mimic: Focal Myocarditis in an Adolescent Patient After mRNA COVID-19 Vaccine. *J Emerg Med*. 2021 Dec;61(6):e129-e132. doi: 10.1016/j.jemermed.2021.09.017. Epub 2021 Sep 27. PMID: 34756746; PMCID: PMC8469220. <https://www.ncbi.nlm.nih.gov/pubmed/34756746>
431. Bhandari M, Pradhan A, Vishwakarma P, Sethi R. Coronavirus and cardiovascular manifestations- getting to the heart of the matter. *World J Cardiol*. 2021 Oct 26;13(10):556-565. doi: 10.4330/wjc.v13.i10.556. PMID: 34754400; PMCID: PMC8554355. <https://www.ncbi.nlm.nih.gov/pubmed/34754400>
432. Bozkurt B, Kamat I, Hotez PJ. Myocarditis With COVID-19 mRNA Vaccines. *Circulation*. 2021 Aug 10;144(6):471-484. doi: 10.1161/CIRCULATIONAHA.121.056135. Epub 2021 Jul 20. PMID: 34281357; PMCID: PMC8340726. <https://www.ncbi.nlm.nih.gov/pubmed/34281357>
433. Kaneta K, Yokoi K, Jojima K, et al. Young Male With Myocarditis Following mRNA-1273 Vaccination Against Coronavirus Disease-2019 (COVID-19). *Circ J*. 2021 Nov 6. doi: 10.1253/circj.CJ-21-0818. Epub ahead of print. PMID: 34744118. <https://www.ncbi.nlm.nih.gov/pubmed/34744118>
434. Lazaros G, Anastassopoulou C, Hatziantoniou S, et al. A case series of acute pericarditis following COVID-19 vaccination in the context of recent reports from Europe and the United States. *Vaccine*. 2021 Oct 29;39(45):6585-6590. doi: 10.1016/j.vaccine.2021.09.078. Epub 2021 Oct 5. PMID: 34635376; PMCID: PMC8491922. <https://pubmed.ncbi.nlm.nih.gov/34635376/>
435. Shen X, Koh MSH, Lim BY, et al. Acute pericarditis and cardiac tamponade after Covid-19 vaccination. *Singapore Med J*. 2021 Nov 8. doi: 10.11622/smedj.2021195. Epub ahead of print. PMID: 34749492. <https://pubmed.ncbi.nlm.nih.gov/34749492/>

436. Foltran D, Delmas C, Flumian C, et al. Myocarditis and Pericarditis in Adolescents after First and Second doses of mRNA COVID-19 Vaccines. *Eur Heart J Qual Care Clin Outcomes*. 2021 Nov 26;qcab090. doi: 10.1093/ehjqcco/qcab090. Epub ahead of print. PMID: 34849667; PMCID: PMC8690190. <https://pubmed.ncbi.nlm.nih.gov/34849667/>
437. Tano E, San Martin S, Girgis S, et al. Perimyocarditis in Adolescents After Pfizer-BioNTech COVID-19 Vaccine. *J Pediatric Infect Dis Soc*. 2021 Nov 11;10(10):962-966. doi: 10.1093/jpids/piab060. PMID: 34319393; PMCID: PMC8344528. <https://pubmed.ncbi.nlm.nih.gov/34319393/>
438. Ambati S, Colon M, Mihic M, et al. Acute Myopericarditis after COVID-19 Vaccine in Teenagers. *Case Rep Cardiol*. 2021 Sep 20;2021:8268755. doi: 10.1155/2021/8268755. PMID: 34589238; PMCID: PMC8476255. <https://pubmed.ncbi.nlm.nih.gov/34589238/>
439. Ramírez-García A, Lozano Jiménez S, Darnaude Ximénez I, et al. Pericarditis tras la administración de la vacuna de ARNm BNT162b2 contra la COVID-19 [Pericarditis after administration of the BNT162b2 mRNA COVID-19 vaccine]. *Rev Esp Cardiol*. 2021 Dec;74(12):1121-1123. Spanish. doi: 10.1016/j.recesp.2021.06.006. Epub 2021 Jun 12. PMID: 34149145; PMCID: PMC8196309. <https://pubmed.ncbi.nlm.nih.gov/34149145/>
440. Ashaari S, Sohaib HA, Bolger K. A case report: symptomatic pericarditis post-COVID-19 vaccination. *Eur Heart J Case Rep*. 2021 Sep 24;5(10):ytb375. doi: 10.1093/ehjcr/ytab375. PMID: 34693198; PMCID: PMC8522432. <https://pubmed.ncbi.nlm.nih.gov/34693198/>.
441. Kaul R, Sreenivasan J, Goel A, et al. Myocarditis following COVID-19 vaccination. *Int J Cardiol Heart Vasc*. 2021 Oct;36:100872. doi: 10.1016/j.ijcha.2021.100872. Epub 2021 Sep 20. PMID: 34568540; PMCID: PMC8450283. <https://www.ncbi.nlm.nih.gov/pubmed/34568540>
442. Kim HW, Jenista ER, Wendell DC, et al. Patients With Acute Myocarditis Following mRNA COVID-19 Vaccination. *JAMA Cardiol*. 2021 Oct 1;6(10):1196-1201. doi: 10.1001/jamacardio.2021.2828. PMID: 34185046; PMCID: PMC8243258. <https://www.ncbi.nlm.nih.gov/pubmed/34185046>
443. Kim IC, Kim H, Lee HJ, et al. Cardiac Imaging of Acute Myocarditis Following COVID-19 mRNA Vaccination. *J Korean Med Sci*. 2021 Aug 16;36(32):e229. doi: 10.3346/jkms.2021.36.e229. PMID: 34402228; PMCID: PMC8369314. <https://www.ncbi.nlm.nih.gov/pubmed/34402228>
444. King WW, Petersen MR, Matar RM, et al. Myocarditis following mRNA vaccination against SARS-CoV-2, a case series. *Am Heart J Plus*. 2021 Aug;8:100042. doi: 10.1016/j.ahjo.2021.100042. Epub 2021 Aug 9. PMID: 34396358; PMCID: PMC8349733. <https://www.ncbi.nlm.nih.gov/pubmed/34396358>
445. Witberg G, Barda N, Hoss S, et al. Myocarditis after Covid-19 Vaccination in a Large Health Care Organization. *N Engl J Med*. 2021 Dec 2;385(23):2132-2139. doi:

- 10.1056/NEJMoa2110737. Epub 2021 Oct 6. PMID: 34614329; PMCID: PMC8531986. <https://pubmed.ncbi.nlm.nih.gov/34614329/>
446. Chelala L, Jeudy J, Hossain R, et al. Cardiac MRI Findings of Myocarditis After COVID-19 mRNA Vaccination in Adolescents. *AJR Am J Roentgenol*. 2021 Oct 27. doi: 10.2214/AJR.21.26853. Epub ahead of print. PMID: 34704459. <https://www.ncbi.nlm.nih.gov/pubmed/34704459>
447. Choi S, Lee S, Seo JW, et al. Myocarditis-induced Sudden Death after BNT162b2 mRNA COVID-19 Vaccination in Korea: Case Report Focusing on Histopathological Findings. *J Korean Med Sci*. 2021 Oct 18;36(40):e286. doi: 10.3346/jkms.2021.36.e286. PMID: 34664804; PMCID: PMC8524235.. <https://www.ncbi.nlm.nih.gov/pubmed/34664804>
448. Chouchana L, Blet A, Al-Khalaf M, et al. Features of Inflammatory Heart Reactions Following mRNA COVID-19 Vaccination at a Global Level. *Clin Pharmacol Ther*. 2021 Dec 3. doi: 10.1002/cpt.2499. Epub ahead of print. PMID: 34860360.. <https://www.ncbi.nlm.nih.gov/pubmed/34860360>
449. Chua GT, Kwan MYW, Chui CSL, et al. Epidemiology of Acute Myocarditis/Pericarditis in Hong Kong Adolescents Following Comirnaty Vaccination. *Clin Infect Dis*. 2021 Nov 28:ciab989. doi: 10.1093/cid/ciab989. Epub ahead of print. PMID: 34849657; PMCID: PMC8767823. <https://www.ncbi.nlm.nih.gov/pubmed/34849657>
450. Clarke R, Ioannou A. Should T2 mapping be used in cases of recurrent myocarditis to differentiate between the acute inflammation and chronic scar? *J Pediatr*. 2021 Dec 18:S0022-3476(21)01232-4. doi: 10.1016/j.jpeds.2021.12.026. Epub ahead of print. PMID: 34933012. <https://www.ncbi.nlm.nih.gov/pubmed/34933012>
451. Colaneri M, De Filippo M, Licari A, et al. COVID vaccination and asthma exacerbation: might there be a link? *Int J Infect Dis*. 2021 Nov;112:243-246. doi: 10.1016/j.ijid.2021.09.026. Epub 2021 Sep 20. PMID: 34547487; PMCID: PMC8450144. <https://www.ncbi.nlm.nih.gov/pubmed/34547487>
452. Das BB, Kohli U, Ramachandran P, et al. Myopericarditis after messenger RNA Coronavirus Disease 2019 Vaccination in Adolescents 12 to 18 Years of Age. *J Pediatr*. 2021 Nov;238:26-32.e1. doi: 10.1016/j.jpeds.2021.07.044. Epub 2021 Jul 30. PMID: 34339728; PMCID: PMC8321962.. <https://www.ncbi.nlm.nih.gov/pubmed/34339728>
453. Das BB, Moskowitz WB, Taylor MB, Palmer A. Myocarditis and Pericarditis Following mRNA COVID-19 Vaccination: What Do We Know So Far? *Children (Basel)*. 2021 Jul 18;8(7):607. doi: 10.3390/children8070607. PMID: 34356586; PMCID: PMC8305058. <https://www.ncbi.nlm.nih.gov/pubmed/34356586>
454. Deb A, Abdelmalek J, Iwuji K, Nugent K. Acute Myocardial Injury Following COVID-19 Vaccination: A Case Report and Review of Current Evidence from Vaccine Adverse Events Reporting System Database. *J Prim Care Community Health*. 2021 Jan-

- Dec;12:21501327211029230. doi: 10.1177/21501327211029230. PMID: 34219532; PMCID: PMC8255555.. <https://www.ncbi.nlm.nih.gov/pubmed/34219532>
455. Dickey JB, Albert E, Badr M, et al. A Series of Patients With Myocarditis Following SARS-CoV-2 Vaccination With mRNA-1279 and BNT162b2. *JACC Cardiovasc Imaging*. 2021 Sep;14(9):1862-1863. doi: 10.1016/j.jcmg.2021.06.003. Epub 2021 Jun 16. PMID: 34246585; PMCID: PMC8219373.. <https://www.ncbi.nlm.nih.gov/pubmed/34246585>
456. Tutor A, Unis G, Ruiz B, Bolaji OA, et al. Spectrum of Suspected Cardiomyopathy Due to COVID-19: A Case Series. *Curr Probl Cardiol*. 2021 Oct;46(10):100926. doi: 10.1016/j.cpcardiol.2021.100926. Epub 2021 Jul 3. PMID: 34311983; PMCID: PMC8254392. <https://www.ncbi.nlm.nih.gov/pubmed/34311983>
457. Umei TC, Kishino Y, Shiraishi Y, et al. Recurrence of myopericarditis following mRNA COVID-19 vaccination in a male adolescent. *CJC Open*. 2021 Dec 9. doi: 10.1016/j.cjco.2021.12.002. Epub ahead of print. PMID: 34904134; PMCID: PMC8656213. <https://www.ncbi.nlm.nih.gov/pubmed/34904134>
458. Vidula MK, Ambrose M, Glassberg H, Chokshi N, Chen T, Ferrari VA, Han Y. Myocarditis and Other Cardiovascular Complications of the mRNA-Based COVID-19 Vaccines. *Cureus*. 2021 Jun 10;13(6):e15576. doi: 10.7759/cureus.15576. PMID: 34277198; PMCID: PMC8270057. <https://www.ncbi.nlm.nih.gov/pubmed/34277198>
459. Visclosky T, Theyyanni N, Klekowski N, Bradin S. Myocarditis Following mRNA COVID-19 Vaccine. *Pediatr Emerg Care*. 2021 Nov 1;37(11):583-584. doi: 10.1097/PEC.0000000000002557. PMID: 34731877. <https://www.ncbi.nlm.nih.gov/pubmed/34731877>
460. Watkins K, Griffin G, Septaric K, Simon EL. Myocarditis after BNT162b2 vaccination in a healthy male. *Am J Emerg Med*. 2021 Dec;50:815.e1-815.e2. doi: 10.1016/j.ajem.2021.06.051. Epub 2021 Jun 29. PMID: 34229940; PMCID: PMC8238643. <https://www.ncbi.nlm.nih.gov/pubmed/34229940>
461. Mevorach D, Anis E, Cedar N, et al. Myocarditis after BNT162b2 mRNA Vaccine against Covid-19 in Israel. *N Engl J Med*. 2021 Dec 2;385(23):2140-2149. doi: 10.1056/NEJMoa2109730. Epub 2021 Oct 6. PMID: 34614328; PMCID: PMC8531987. <https://www.ncbi.nlm.nih.gov/pubmed/34614328>
462. McLean K, Johnson TJ. Myopericarditis in a previously healthy adolescent male following COVID-19 vaccination: A case report. *Acad Emerg Med*. 2021 Aug;28(8):918-921. doi: 10.1111/acem.14322. Epub 2021 Jul 21. PMID: 34133825; PMCID: PMC8441784. <https://www.ncbi.nlm.nih.gov/pubmed/34133825>
463. Minocha PK, Better D, Singh RK, et al. Recurrence of Acute Myocarditis Temporally Associated with Receipt of the mRNA Coronavirus Disease 2019 (COVID-19) Vaccine in a Male Adolescent. *J Pediatr*. 2021 Nov;238:321-323. doi: 10.1016/j.jpeds.2021.06.035.

- Epub 2021 Jun 22. PMID: 34166671; PMCID: PMC8216855. <https://www.ncbi.nlm.nih.gov/pubmed/34166671>
464. Montgomery J, Ryan M, Engler R, et al. Myocarditis Following Immunization With mRNA COVID-19 Vaccines in Members of the US Military. *JAMA Cardiol.* 2021 Oct 1;6(10):1202-1206. doi: 10.1001/jamacardio.2021.2833. PMID: 34185045; PMCID: PMC8243257. <https://www.ncbi.nlm.nih.gov/pubmed/34185045>
465. Nygaard U, Holm M, Bohnstedt C, et al. Population-based Incidence of Myopericarditis After COVID-19 Vaccination in Danish Adolescents. *Pediatr Infect Dis J.* 2022 Jan 1;41(1):e25-e28. doi: 10.1097/INF.0000000000003389. PMID: 34889875; PMCID: PMC8658061. <https://www.ncbi.nlm.nih.gov/pubmed/34889875>
466. Park H, Yun KW, Kim KR, et al. Epidemiology and Clinical Features of Myocarditis/Pericarditis before the Introduction of mRNA COVID-19 Vaccine in Korean Children: a Multicenter Study. *J Korean Med Sci.* 2021 Aug 16;36(32):e232. doi: 10.3346/jkms.2021.36.e232. PMID: 34402230; PMCID: PMC8369310. <https://www.ncbi.nlm.nih.gov/pubmed/34402230>
467. Park J, Brekke DR, Bratincsak A. Self-limited myocarditis presenting with chest pain and ST segment elevation in adolescents after vaccination with the BNT162b2 mRNA vaccine. *Cardiol Young.* 2022 Jan;32(1):146-149. doi: 10.1017/S1047951121002547. Epub 2021 Jun 28. PMID: 34180390. <https://www.ncbi.nlm.nih.gov/pubmed/34180390>
468. Patel YR, Louis DW, Atalay M, et al. Cardiovascular magnetic resonance findings in young adult patients with acute myocarditis following mRNA COVID-19 vaccination: a case series. *J Cardiovasc Magn Reson.* 2021 Sep 9;23(1):101. doi: 10.1186/s12968-021-00795-4. PMID: 34496880; PMCID: PMC8425992. <https://www.ncbi.nlm.nih.gov/pubmed/34496880>
469. Patone M, Mei XW, Handunnetthi L, et al. Risks of myocarditis, pericarditis, and cardiac arrhythmias associated with COVID-19 vaccination or SARS-CoV-2 infection. *Nat Med.* 2021 Dec 14. doi: 10.1038/s41591-021-01630-0. Epub ahead of print. PMID: 34907393. <https://www.ncbi.nlm.nih.gov/pubmed/34907393>
470. Patrignani A, Schicchi N, Calcagnoli F, et al. Acute myocarditis following Comirnaty vaccination in a healthy man with previous SARS-CoV-2 infection. *Radiol Case Rep.* 2021 Nov;16(11):3321-3325. doi: 10.1016/j.radcr.2021.07.082. Epub 2021 Aug 2. PMID: 34367386; PMCID: PMC8326008. <https://www.ncbi.nlm.nih.gov/pubmed/34367386>
471. Perez Y, Levy ER, Joshi AY, et al. Myocarditis Following COVID-19 mRNA Vaccine: A Case Series and Incidence Rate Determination. *Clin Infect Dis.* 2021 Nov 3:ciab926. doi: 10.1093/cid/ciab926. Epub ahead of print. PMID: 34734240; PMCID: PMC8767838. <https://www.ncbi.nlm.nih.gov/pubmed/34734240>

472. Sanchez Tijmes F, Thavendiranathan P, Udell JA, et al. Cardiac MRI Assessment of Nonischemic Myocardial Inflammation: State of the Art Review and Update on Myocarditis Associated with COVID-19 Vaccination. *Radiol Cardiothorac Imaging*. 2021 Nov 18;3(6):e210252. doi: 10.1148/ryct.210252. PMID: 34934954; PMCID: PMC8686006. <https://www.ncbi.nlm.nih.gov/pubmed/34934954>
473. Schauer J, Buddhe S, Colyer J, et al. Myopericarditis After the Pfizer Messenger Ribonucleic Acid Coronavirus Disease Vaccine in Adolescents. *J Pediatr*. 2021 Nov;238:317-320. doi: 10.1016/j.jpeds.2021.06.083. Epub 2021 Jul 3. PMID: 34228985; PMCID: PMC8253718. <https://www.ncbi.nlm.nih.gov/pubmed/34228985>
474. Shiyovich A, Witberg G, Aviv Y, Eisen A, et al. Myocarditis following COVID-19 vaccination: magnetic resonance imaging study. *Eur Heart J Cardiovasc Imaging*. 2021 Nov 5;jeab230. doi: 10.1093/ehjci/jeab230. Epub ahead of print. PMID: 34739045. <https://www.ncbi.nlm.nih.gov/pubmed/34739045>
475. Simone A, Herald J, Chen A, et al. Acute Myocarditis Following COVID-19 mRNA Vaccination in Adults Aged 18 Years or Older. *JAMA Intern Med*. 2021 Dec 1;181(12):1668-1670. doi: 10.1001/jamainternmed.2021.5511. PMID: 34605853; PMCID: PMC8491129. <https://www.ncbi.nlm.nih.gov/pubmed/34605853>
476. Snapiri O, Rosenberg Danziger C, Shirman N, et al. Transient Cardiac Injury in Adolescents Receiving the BNT162b2 mRNA COVID-19 Vaccine. *Pediatr Infect Dis J*. 2021 Oct 1;40(10):e360-e363. doi: 10.1097/INF.0000000000003235. PMID: 34077949; PMCID: PMC8443419. <https://www.ncbi.nlm.nih.gov/pubmed/34077949>
477. Starekova J, Bluemke DA, Bradham WS, et al. Myocarditis Associated with mRNA COVID-19 Vaccination. *Radiology*. 2021 Nov;301(2):E409-E411. doi: 10.1148/radiol.2021211430. Epub 2021 Jul 20. PMID: 34282971; PMCID: PMC8574056. <https://www.ncbi.nlm.nih.gov/pubmed/34282971>
478. Sulemankhil I, Abdelrahman M, Negi SI. Temporal association between the COVID-19 Ad26.COV2.S vaccine and acute myocarditis: A case report and literature review. *Cardiovasc Revasc Med*. 2021 Aug 16;S1553-8389(21)00578-9. doi: 10.1016/j.carrev.2021.08.012. Epub ahead of print. PMID: 34420869; PMCID: PMC8364889. <https://www.ncbi.nlm.nih.gov/pubmed/34420869>
479. Tailor PD, Feighery AM, El-Sabawi B, Prasad A. Case report: acute myocarditis following the second dose of mRNA-1273 SARS-CoV-2 vaccine. *Eur Heart J Case Rep*. 2021 Aug 4;5(8):ytab319. doi: 10.1093/ehjcr/ytab319. PMID: 34514306; PMCID: PMC8422333. <https://www.ncbi.nlm.nih.gov/pubmed/34514306>
480. Takeda M, Ishio N, Shoji T, et al. Eosinophilic Myocarditis Following Coronavirus Disease 2019 (COVID-19) Vaccination. *Circ J*. 2021 Dec 25. doi: 10.1253/circj.CJ-21-0935. Epub ahead of print. PMID: 34955479. <https://www.ncbi.nlm.nih.gov/pubmed/34955479>

481. Witberg G, Barda N, Hoss S, Richter I, Wiessman M, Aviv Y, Grinberg T, Auster O, Dagan N, Balicer RD, Kornowski R. Myocarditis after Covid-19 Vaccination in a Large Health Care Organization. *N Engl J Med*. 2021 Dec 2;385(23):2132-2139. doi: 10.1056/NEJMoa2110737. Epub 2021 Oct 6. PMID: 34614329; PMCID: PMC8531986. <https://www.ncbi.nlm.nih.gov/pubmed/34614329>
482. Snapiri O, Rosenberg Danziger C, Shirman N, et al. Transient Cardiac Injury in Adolescents Receiving the BNT162b2 mRNA COVID-19 Vaccine. *Pediatr Infect Dis J*. 2021 Oct 1;40(10):e360-e363. doi: 10.1097/INF.0000000000003235. PMID: 34077949; PMCID: PMC8443419. <https://pubmed.ncbi.nlm.nih.gov/34077949/>
483. Vollmann D, Eiffert H, Schuster A. Acute Perimyocarditis Following First Dose of mRNA Vaccine Against COVID-19. *Dtsch Arztebl Int*. 2021 Aug 9;118(31-32):546. doi: 10.3238/arztebl.m2021.0288. PMID: 34515024; PMCID: PMC8422910. <https://pubmed.ncbi.nlm.nih.gov/34515024/>
484. Li C, Chen Y, Zhao Y, et al. Corrigendum to: Intravenous Injection of Coronavirus Disease 2019 (COVID-19) mRNA Vaccine Can Induce Acute Myopericarditis in Mouse Model. *Clin Infect Dis*. 2021 Dec 16;73(12):2372-2373. doi: 10.1093/cid/ciab941. Erratum for: *Clin Infect Dis*. 2021 Aug 18;: PMID: 34849654; PMCID: PMC8690168. <https://t.co/jOIEM8cMXI>
485. Rose J, McCullough PA. WITHDRAWN: A Report on Myocarditis Adverse Events in the U.S. Vaccine Adverse Events Reporting System (VAERS) in Association with COVID-19 Injectable Biological Products. *Curr Probl Cardiol*. 2021 Sep 30:101011. doi: 10.1016/j.cpcardiol.2021.101011. Epub ahead of print. PMID: 34601006; PMCID: PMC8483988. <https://pubmed.ncbi.nlm.nih.gov/34601006/>
486. Høeg T, Krug A, Stevenson J. Myocarditis associated with SARS-CoV-2 mRNA vaccination in children aged 12 to 17 years: stratified analysis of a national database. *MedRxiv*. 10.1101/2021.08.30.21262866 <https://www.medrxiv.org/content/10.1101/2021.08.30.21262866v1>.
487. King WW, Petersen MR, Matar RM, et al. Myocarditis following mRNA vaccination against SARS-CoV-2, a case series. *Am Heart J Plus*. 2021 Aug;8:100042. doi: 10.1016/j.ahjo.2021.100042. Epub 2021 Aug 9. PMID: 34396358; PMCID: PMC8349733. <https://pubmed.ncbi.nlm.nih.gov/34396358/>.
488. Buchan S, Seo C, Johnson C. Epidemiology of myocarditis and pericarditis following mRNA vaccines in Ontario, Canada: by vaccine product, schedule, and interval. *MedRxiv*. 2021 Dec 01. <https://www.medrxiv.org/content/10.1101/2021.12.02.21267156v1>
489. Aye YN, Mai AS, Zhang A, et al. Acute Myocardial Infarction and Myocarditis following COVID-19 Vaccination. *QJM*. 2021 Sep 29;hcab252. doi: 10.1093/qjmed/hcab252. Epub ahead of print. PMID: 34586408; PMCID: PMC8522388. <https://pubmed.ncbi.nlm.nih.gov/34586408/>

490. Chamling B, Vehof V, Drakos S, et al. Occurrence of acute infarct-like myocarditis following COVID-19 vaccination: just an accidental co-incidence or rather vaccination-associated autoimmune myocarditis? *Clin Res Cardiol*. 2021 Nov;110(11):1850-1854. doi: 10.1007/s00392-021-01916-w. Epub 2021 Jul 31. PMID: 34333695; PMCID: PMC8325525. <https://www.ncbi.nlm.nih.gov/pubmed/34333695>
491. Ehrlich P, Klingel K, Ohlmann-Knafo S, et al. Biopsy-proven lymphocytic myocarditis following first mRNA COVID-19 vaccination in a 40-year-old male: case report. *Clin Res Cardiol*. 2021 Nov;110(11):1855-1859. doi: 10.1007/s00392-021-01936-6. Epub 2021 Sep 6. PMID: 34487236; PMCID: PMC8419377. <https://www.ncbi.nlm.nih.gov/pubmed/34487236>
492. Facetti S, Giraldi M, Vecchi AL, et al. Miocardite acuta in giovane adulto due giorni dopo vaccino Pfizer [Acute myocarditis in a young adult two days after Pfizer vaccination]. *G Ital Cardiol (Rome)*. 2021 Nov;22(11):891-893. Italian. doi: 10.1714/3689.36746. PMID: 34709227. <https://www.ncbi.nlm.nih.gov/pubmed/34709227>
493. Foltran D, Delmas C, Flumian C, et al. Myocarditis and Pericarditis in Adolescents after First and Second doses of mRNA COVID-19 Vaccines. *Eur Heart J Qual Care Clin Outcomes*. 2021 Nov 26:qcab090. doi: 10.1093/ehjqcco/qcab090. Epub ahead of print. PMID: 34849667; PMCID: PMC8690190. <https://www.ncbi.nlm.nih.gov/pubmed/34849667>
494. In brief: Myocarditis with the Pfizer/BioNTech and Moderna COVID-19 vaccines. *Med Lett Drugs Ther*. 2021 Jul 26;63(1629):e9. PMID: 34544112. <https://www.ncbi.nlm.nih.gov/pubmed/34544112><https://www.ncbi.nlm.nih.gov/pubmed/3454412>
495. Ioannou A. Myocarditis should be considered in those with a troponin rise and unobstructed coronary arteries following Pfizer-BioNTech COVID-19 vaccination. *QJM*. 2021 Aug 31:hcab231. doi: 10.1093/qjmed/hcab231. Epub ahead of print. PMID: 34463755; PMCID: PMC8499841. <https://www.ncbi.nlm.nih.gov/pubmed/34463755>
496. Ioannou A. T2 mapping should be utilised in cases of suspected myocarditis to confirm an acute inflammatory process. *QJM*. 2021 Dec 21:hcab326. doi: 10.1093/qjmed/hcab326. Epub ahead of print. PMID: 34931681. <https://www.ncbi.nlm.nih.gov/pubmed/34931681>
497. Isaak A, Feisst A, Luetkens JA. Myocarditis Following COVID-19 Vaccination. *Radiology*. 2021 Oct;301(1):E378-E379. doi: 10.1148/radiol.2021211766. Epub 2021 Aug 3. PMID: 34342500; PMCID: PMC8369878. <https://www.ncbi.nlm.nih.gov/pubmed/34342500>
498. Istampoulouoglou I, Dimitriou G, Späni S, et al. Myocarditis and pericarditis in association with COVID-19 mRNA-vaccination: cases from a regional pharmacovigilance centre. *Glob Cardiol Sci Pract*. 2021 Oct 30;2021(3):e202118. doi: 10.21542/gcsp.2021.18. PMID: 34805376; PMCID: PMC8587334. <https://www.ncbi.nlm.nih.gov/pubmed/34805376>

499. Jain SS, Steele JM, Fonseca B, et al. COVID-19 Vaccination-Associated Myocarditis in Adolescents. *Pediatrics*. 2021 Nov;148(5):e2021053427. doi: 10.1542/peds.2021-053427. Epub 2021 Aug 13. PMID: 34389692. <https://www.ncbi.nlm.nih.gov/pubmed/34389692>
500. Jhaveri R, Adler-Shohet FC, Blyth CC, et al. Weighing the Risks of Perimyocarditis With the Benefits of SARS-CoV-2 mRNA Vaccination in Adolescents. *J Pediatric Infect Dis Soc*. 2021 Nov 11;10(10):937-939. doi: 10.1093/jpids/piab061. PMID: 34270752; PMCID: PMC8344506. <https://www.ncbi.nlm.nih.gov/pubmed/34270752>
501. Kohli U, Desai L, Chowdhury D, et al. mRNA Coronavirus-19 Vaccine-Associated Myopericarditis in Adolescents: A Survey Study. *J Pediatr*. 2021 Dec 22:S0022-3476(21)01231-2. doi: 10.1016/j.jpeds.2021.12.025. Epub ahead of print. PMID: 34952008; PMCID: PMC8691954. <https://www.ncbi.nlm.nih.gov/pubmed/34952008>
502. Kwan MYW, Chua GT, Chow CB, et al. mRNA COVID vaccine and myocarditis in adolescents. *Hong Kong Med J*. 2021 Oct;27(5):326-327. doi: 10.12809/hkmj215120. Epub 2021 Aug 16. PMID: 34393110. <https://www.ncbi.nlm.nih.gov/pubmed/34393110>
503. Lee E, Chew NWS, Ng P, et al. Reply to "Letter to the editor: Myocarditis should be considered in those with a troponin rise and unobstructed coronary arteries following PfizerBioNTech COVID-19 vaccination". *QJM*. 2021 Aug 31:hcab232. doi: 10.1093/qjmed/hcab232. Epub ahead of print. PMID: 34463770; PMCID: PMC8499842. <https://www.ncbi.nlm.nih.gov/pubmed/34463770>
504. Levin D, Shimon G, Fadlon-Derai M, et al. Myocarditis following COVID-19 vaccination - A case series. *Vaccine*. 2021 Oct 8;39(42):6195-6200. doi: 10.1016/j.vaccine.2021.09.004. Epub 2021 Sep 4. PMID: 34535317; PMCID: PMC8416687. <https://www.ncbi.nlm.nih.gov/pubmed/34535317>
505. Li M, Yuan J, Lv G, et al. Myocarditis and Pericarditis following COVID-19 Vaccination: Inequalities in Age and Vaccine Types. *J Pers Med*. 2021 Oct 28;11(11):1106. doi: 10.3390/jpm11111106. PMID: 34834458; PMCID: PMC8624452. <https://www.ncbi.nlm.nih.gov/pubmed/34834458>
506. Lim Y, Kim MC, Kim KH, et al. Case Report: Acute Fulminant Myocarditis and Cardiogenic Shock After Messenger RNA Coronavirus Disease 2019 Vaccination Requiring Extracorporeal Cardiopulmonary Resuscitation. *Front Cardiovasc Med*. 2021 Oct 29;8:758996. doi: 10.3389/fcvm.2021.758996. PMID: 34778411; PMCID: PMC8586196. <https://www.ncbi.nlm.nih.gov/pubmed/34778411>
507. Long SS. Important Insights into Myopericarditis after the Pfizer mRNA COVID-19 Vaccination in Adolescents. *J Pediatr*. 2021 Nov;238:5. doi: 10.1016/j.jpeds.2021.07.057. Epub 2021 Jul 29. PMID: 34332972; PMCID: PMC8440228. <https://www.ncbi.nlm.nih.gov/pubmed/34332972>

508. Luk A, Clarke B, Dahdah N, et al. Myocarditis and Pericarditis After COVID-19 mRNA Vaccination: Practical Considerations for Care Providers. *Can J Cardiol*. 2021 Oct;37(10):1629-1634. doi: 10.1016/j.cjca.2021.08.001. Epub 2021 Aug 8. PMID: 34375696; PMCID: PMC8349442. <https://www.ncbi.nlm.nih.gov/pubmed/34375696>
509. Larson KF, Ammirati E, Adler ED, et al. Myocarditis After BNT162b2 and mRNA-1273 Vaccination. *Circulation*. *Circulation*. 2021 Aug 10;144(6):506-508. doi: 10.1161/CIRCULATIONAHA.121.055913. Epub 2021 Jun 16. PMID: 34133884; PMCID: PMC8340725. <https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8340725/>
510. Gnanenthiran SR, Limaye S. COVID-19 mRNA vaccines and myopericarditis. *Intern Med J*. 2022 Mar 15. doi: 10.1111/imj.15748. Epub ahead of print. PMID: 35289493. <https://pubmed.ncbi.nlm.nih.gov/35289493/>
511. Fatima M, Ahmad Cheema H, Ahmed Khan MH, et al. Development of myocarditis and pericarditis after COVID-19 vaccination in adult population: A systematic review. *Ann Med Surg (Lond)*. 2022 Apr;76:103486. doi: 10.1016/j.amsu.2022.103486. Epub 2022 Mar 11. PMID: 35291413; PMCID: PMC8912977. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8912977/>
512. Habedank D, Lagast A, Novoa-Usme M, Atmowihardjo I. A case of myocarditis in a 60-year-old man 48 h after mRNA vaccination against SARS-CoV2. *Clin Res Cardiol*. 2022 Feb;111(2):230-232. doi: 10.1007/s00392-021-01946-4. Epub 2021 Nov 3. PMID: 34731321; PMCID: PMC8564591. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8564591/>
513. Switzer C, Loeb M. Evaluating the relationship between myocarditis and mRNA vaccination. *Expert Rev Vaccines*. 2022 Jan;21(1):83-89. doi: 10.1080/14760584.2022.2002690. Epub 2021 Nov 18. PMID: 34738500; PMCID: PMC8607534. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8607534/>
514. Dorfman AL, Murthy VL. Web Exclusive. *Annals for Hospitalists Inpatient Notes - Myocarditis After Vaccination for SARS-CoV-2*. *Ann Intern Med*. 2021 Nov;174(11):HO2-HO3. doi: 10.7326/M21-3871. PMID: 34781728. <https://pubmed.ncbi.nlm.nih.gov/34781728/>
515. Meyer-Szary J, Bazgier M, Lubocka P, Dorniak K, Sabiniewicz R. Cardiac magnetic resonance characteristics of acute myocarditis occurring after mRNA-based COVID-19 vaccines immunization. *Cardiol J*. 2022;29(1):160-162. doi: 10.5603/CJ.a2021.0152. Epub 2021 Nov 17. PMID: 34787887; PMCID: PMC8890411. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8890411/>
516. Yu X. Note the distinction between myocarditis, novel coronavirus myocarditis and COVID-19 vaccine-associated myocarditis. *QJM*. 2021 Nov 13;hcab280. doi: 10.1093/qjmed/hcab280. Epub ahead of print. PMID: 34791441; PMCID: PMC8690263. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8690263/>

517. Elhassan M, Ahmad H, Mohamed M, Saidahmed O, Elhassan AE. From Muscles to Wires: Report of Two Cases and Literature Review on COVID-19 Vaccination and Cardiac Conduction Disturbance. *Cureus*. 2021 Oct 15;13(10):e18805. doi: 10.7759/cureus.18805. PMID: 34796078; PMCID: PMC8590834.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8590834/>
518. Kounis NG, Koniari I, Mplani V, Velissaris D, Tsigkas G. The pathogenesis of potential myocarditis induced by COVID-19 vaccine. *Am J Emerg Med*. 2021 Nov 12:S0735-6757(21)00920-7. doi: 10.1016/j.ajem.2021.11.016. Epub ahead of print. PMID: 34799207; PMCID: PMC8585566.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8585566/>
519. Azdaki N, Farzad M. Long QT interval and syncope after a single dose of COVID-19 vaccination: a case report. *Pan Afr Med J*. 2021 Sep 30;40:67. doi: 10.11604/pamj.2021.40.67.31546. PMID: 34804335; PMCID: PMC8590254.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8590254/>
520. Eggebrecht H, Breitbart P, Koch A, et al. Trends in ambulatory cardiology consultations for suspected myocarditis after COVID-19 vaccination. *Clin Res Cardiol*. 2022 Feb;111(2):237-239. doi: 10.1007/s00392-021-01974-0. Epub 2021 Nov 23. PMID: 34812930; PMCID: PMC8608850. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8608850/>
521. Hajra A, Gupta M, Ghosh B, et al. Proposed Pathogenesis, Characteristics, and Management of COVID-19 mRNA Vaccine-Related Myopericarditis. *Am J Cardiovasc Drugs*. 2022 Jan;22(1):9-26. doi: 10.1007/s40256-021-00511-8. Epub 2021 Nov 24. Erratum in: *Am J Cardiovasc Drugs*. 2021 Dec 21;: PMID: 34817850; PMCID: PMC8612108.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8612108/>
522. Kounis NG, Mplani V, Koniari I, Plotas P. Rare cases of myocarditis after COVID-19 vaccination: searching for diagnosis, type, treatment and prevention. *Rev Esp Cardiol (Engl Ed)*. 2022 Mar;75(3):278-279. doi: 10.1016/j.rec.2021.10.007. Epub 2021 Oct 25. PMID: 34838472; PMCID: PMC8542433.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8542433/>
523. Shiravi AA, Ardekani A, Sheikhabahaei E, Heshmat-Ghahdarjani K. Cardiovascular Complications of SARS-CoV-2 Vaccines: An Overview. *Cardiol Ther*. 2022 Mar;11(1):13-21. doi: 10.1007/s40119-021-00248-0. Epub 2021 Nov 29. PMID: 34845662; PMCID: PMC8629102. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8629102/>
524. Woo W, Kim AY, Yon DK, Lee SW, Hwang J, Jacob L, Koyanagi A, Kim MS, Moon DH, Jung JW, Choi JY, Jung SY, Eun LY, Lee S, Shin JI, Smith L. Clinical characteristics and prognostic factors of myocarditis associated with the mRNA COVID-19 vaccine. *J Med Virol*. 2022 Apr;94(4):1566-1580. doi: 10.1002/jmv.27501. Epub 2021 Dec 14. PMID: 34862617.
<https://pubmed.ncbi.nlm.nih.gov/34862617/>

525. Badshah M, Shriver J, Rynders B, Sjovold A, Shaukat MHS, Rajpurohit N. MODERNA mRNA-1273 vaccine-associated myopericarditis in a patient with a subclinical autoimmune predisposition. *J Cardiol Cases*. 2021 Oct 2;24(5):227-229. doi: 10.1016/j.jccase.2021.09.007. PMID: 34868402; PMCID: PMC8617476. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8617476/>
526. Matta A, Kunadharaju R, Osman M, et al. Clinical Presentation and Outcomes of Myocarditis Post mRNA Vaccination: A Meta-Analysis and Systematic Review. *Cureus*. 2021 Nov 3;13(11):e19240. doi: 10.7759/cureus.19240. PMID: 34877217; PMCID: PMC8641964. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8641964/>
527. Heymans S, Cooper LT. Myocarditis after COVID-19 mRNA vaccination: clinical observations and potential mechanisms. *Nat Rev Cardiol*. 2022 Feb;19(2):75-77. doi: 10.1038/s41569-021-00662-w. PMID: 34887571; PMCID: PMC8656440. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8656440/>
528. Milano G, Gal J, Creisson A, Chamorey E. Myocarditis and COVID-19 mRNA vaccines: a mechanistic hypothesis involving dsRNA. *Future Virol*. 2021 Nov;10.2217/fvl-2021-0280. doi: 10.2217/fvl-2021-0280. Epub 2021 Dec 6. PMID: 34887937; PMCID: PMC8647997. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8647997/>
529. Kadkhoda K. Post RNA-based COVID vaccines myocarditis: Proposed mechanisms. *Vaccine*. 2022 Jan 24;40(3):406-407. doi: 10.1016/j.vaccine.2021.11.093. Epub 2021 Dec 9. PMID: 34895937; PMCID: PMC8658401. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8658401/>
530. Aikawa T, Ogino J, Kita Y, Funayama N, Oyama-Manabe N. Non-infectious endocarditis and myocarditis after COVID-19 mRNA vaccination. *Eur Heart J Case Rep*. 2022 Jan 3;6(1):ytab533. doi: 10.1093/ehjcr/ytab533. PMCID: PMC8755328. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8755328/>
531. Parra-Luceres A, Toro L, Weitz-Muñoz S, Ramos C. Cardiomyopathy Associated with Anti-SARS-CoV-2 Vaccination: What Do We Know? *Viruses*. 2021 Dec 13;13(12):2493. doi: 10.3390/v13122493. PMID: 34960761; PMCID: PMC8708989. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8708989/>
532. Ameratunga R, Woon ST, Sheppard MN, et al. First Identified Case of Fatal Fulminant Necrotizing Eosinophilic Myocarditis Following the Initial Dose of the Pfizer-BioNTech mRNA COVID-19 Vaccine (BNT162b2, Comirnaty): an Extremely Rare Idiosyncratic Hypersensitivity Reaction. *J Clin Immunol*. 2022 Jan 3:1–7. doi: 10.1007/s10875-021-01187-0. Epub ahead of print. PMID: 34978002; PMCID: PMC8720536. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8720536/>
533. Mimouni H, Bahouh C, Amaqdouf S, Laaribi I, Baddi M, Berichi S, Bkiyar H, Ismaili N, El Ouafi N, Housni B. Cardiogenic shock revealing myocarditis after mRNA vaccination against covid-19: Case report and brief review for the first case in Morocco. *Ann Med Surg*

- (Lond). 2022 Feb;74:103210. doi: 10.1016/j.amsu.2021.103210. Epub 2021 Dec 30. PMID: 34980975; PMCID: PMC8716151.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8716151/>
534. Wu B, Mittal N, Adler ED, Hong KN. Acute myocarditis after receiving first dose of BNT162b2 mRNA vaccine. *J Cardiol Cases*. 2022 Jan 7. doi: 10.1016/j.jccase.2021.12.009. Epub ahead of print. PMID: 35018202; PMCID: PMC8739668.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8739668/>
535. Dursun AD, Saricam E, Sariyildiz GT, et al. The Evaluation of Oxidative Stress in the Young Adults with COVID-19 mRNA Vaccines Induced Acute Pericarditis- Myopericarditis. *Int J Gen Med*. 2022 Jan 6;15:161-167. doi: 10.2147/IJGM.S347977. PMID: 35023954; PMCID: PMC8747758. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8747758/>
536. Chachar TS, Yousuf N, Sulaibikh L, Abdulqader F, Alqahtani M. First Report of Acute Myocarditis Post-Pfizer-BioNTech COVID-19 Vaccination in the Kingdom of Bahrain. *Cureus*. 2021 Dec 9;13(12):e20313. doi: 10.7759/cureus.20313. PMID: 35028213; PMCID: PMC8747994. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8747994/>
537. Hana D, Patel K, Roman S, Gattas B, Sofka S. Clinical Cardiovascular Adverse Events Reported Post-COVID-19 Vaccination: Are They a Real Risk? *Curr Probl Cardiol*. 2022 Mar;47(3):101077. doi: 10.1016/j.cpcardiol.2021.101077. Epub 2021 Dec 10. PMID: 34902392; PMCID: PMC8662957.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8662957/>
538. Husby A, Hansen JV, Fosbøl E, et al. SARS-CoV-2 vaccination and myocarditis or myopericarditis: population based cohort study. *BMJ*. 2021 Dec 16;375:e068665. doi: 10.1136/bmj-2021-068665. PMID: 34916207; PMCID: PMC8683843.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8683843/>
539. Sanchez Tijmes F, Thavendiranathan P, Udell JA, et al. Cardiac MRI Assessment of Nonischemic Myocardial Inflammation: State of the Art Review and Update on Myocarditis Associated with COVID-19 Vaccination. *Radiol Cardiothorac Imaging*. 2021 Nov 18;3(6):e210252. doi: 10.1148/ryct.210252. PMID: 34934954; PMCID: PMC8686006.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8686006/>
540. Tsilingiris D, Vallianou NG, Karampela I, Liu J, Dalamaga M. Potential implications of lipid nanoparticles in the pathogenesis of myocarditis associated with the use of mRNA vaccines against SARS-CoV-2. *Metabol Open*. 2022 Mar;13:100159. doi: 10.1016/j.metop.2021.100159. Epub 2021 Dec 17. PMID: 34938983; PMCID: PMC8677426. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8677426/>
541. Ohnishi M, Tanaka Y, Nishida S, Sugimoto T. Case report of acute myocarditis after administration of coronavirus disease 2019 vaccine in Japan. *Eur Heart J Case Rep*. 2022 Jan 5;6(1):ytab534. doi: 10.1093/ehjcr/ytab534. PMCID: PMC8755377.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8755377/>

542. Wong, J., Sharma, S., Yao, J.V., Aggarwal, A. and Grigg, L. (2022), COVID-19 mRNA vaccine (Comirnaty)-induced myocarditis. *Med J Aust*, 216: 122-123.
<https://doi.org/10.5694/mja2.51394>
543. Oster ME, Shay DK, Su JR, et al. Myocarditis Cases Reported After mRNA-Based COVID-19 Vaccination in the US From December 2020 to August 2021. *JAMA*. 2022 Jan 25;327(4):331-340. doi: 10.1001/jama.2021.24110. PMID: 35076665; PMCID: PMC8790664. <https://pubmed.ncbi.nlm.nih.gov/35076665/>
544. Mevorach D, Anis E, Cedar N, et al. Myocarditis after BNT162b2 Vaccination in Israeli Adolescents. *N Engl J Med*. 2022 Mar 10;386(10):998-999. doi: 10.1056/NEJMc2116999. Epub 2022 Jan 26. PMID: 35081295; PMCID: PMC8823652.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8823652/>
545. Türe M, Akin A, Demir M, Akay C. A paediatric case of myopericarditis post-COVID-19 mRNA vaccine. *Cardiol Young*. 2022 Jan 27:1-4. doi: 10.1017/S1047951122000312. Epub ahead of print. PMID: 35082004; PMCID: PMC8861555.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8861555/>
546. Agdamag ACC, Gonzalez D, Carlson K, Konety S, McDonald WC, Martin CM, Maharaj V, Alexy T. Fulminant myocarditis following coronavirus disease 2019 vaccination: a case report. *Eur Heart J Case Rep*. 2022 Jan 10;6(1):ytac007. doi: 10.1093/ehjcr/ytac007. PMID: 35088026; PMCID: PMC8790078.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8790078/>
547. Aviram G, Viskin D, Topilsky Y, et al. Myocarditis Associated With COVID-19 Booster Vaccination. *Circ Cardiovasc Imaging*. 2022 Feb;15(2):e013771. doi: 10.1161/CIRCIMAGING.121.013771. Epub 2022 Feb 1. PMID: 35100809; PMCID: PMC8845415. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8845415/>
548. Giray D, Epçaçan S. Acute myocarditis following COVID-19 mRNA vaccination: a paediatric case. *Cardiol Young*. 2022 Feb 2:1-3. doi: 10.1017/S1047951121004698. Epub ahead of print. PMID: 35105392. <https://pubmed.ncbi.nlm.nih.gov/35105392/>
549. Naghashzadeh F, Shafaghi S, Dorudinia A, et al. Myocarditis following rAd26 and rAd5 vector-based COVID-19 vaccine: case report. *ESC Heart Fail*. 2022 Apr;9(2):1483-1486. doi: 10.1002/ehf2.13821. Epub 2022 Feb 1. PMID: 35106967; PMCID: PMC8934948.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8934948/>
550. Bews H, Bryson A, Bortoluzzi T, Tam JW, Jassal DS. COVID-19 vaccination induced myopericarditis: an imager's perspective. *CJC Open*. 2022 Jan 29. doi: 10.1016/j.cjco.2022.01.007. Epub ahead of print. PMID: 35128370; PMCID: PMC8800170.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8800170/>

551. Cui G, Li R, Zhao C, Wang DW. Case Report: COVID-19 Vaccination Associated Fulminant Myocarditis. *Front Cardiovasc Med*. 2022 Jan 24;8:769616. doi: 10.3389/fcvm.2021.769616. PMID: 35141289; PMCID: PMC8818743. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8818743/>
552. Knowlton KU, Knight S, Muhlestein JB, et al. A Small but Significantly Greater Incidence of Inflammatory Heart Disease Identified After Vaccination for Severe Acute Respiratory Syndrome Coronavirus 2. *Open Forum Infect Dis*. 2021 Dec 30;9(3):ofab663. doi: 10.1093/ofid/ofab663. PMID: 35141346; PMCID: PMC8755376. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8755376/>
553. Uesako H, Fujikawa H, Hashimoto S, Wakabayashi T. Prominent J waves and ventricular fibrillation due to myocarditis and pericarditis after BNT162b2 mRNA COVID-19 vaccination. *Can J Cardiol*. 2022 Feb 10:S0828-282X(22)00087-3. doi: 10.1016/j.cjca.2022.02.005. Epub ahead of print. PMID: 35151782; PMCID: PMC8830155. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8830155/>
554. Bellos I, Karageorgiou V, Viskin D. Myocarditis following mRNA Covid-19 vaccination: A pooled analysis. *Vaccine*. 2022 Mar 15;40(12):1768-1774. doi: 10.1016/j.vaccine.2022.02.017. Epub 2022 Feb 7. PMID: 35153093; PMCID: PMC8818354. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8818354/>
555. Oka A, Sudo Y, Miyoshi T, et al. Fulminant myocarditis after the second dose of COVID-19 mRNA vaccination. *Clin Case Rep*. 2022 Feb 7;10(2):e05378. doi: 10.1002/ccr3.5378. PMID: 35154722; PMCID: PMC8819635. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8819635/>
556. Kyaw H, Shajahan S, Gulati A, et al. COVID-19 mRNA Vaccine-Associated Myocarditis. *Cureus*. 2022 Jan 7;14(1):e21009. doi: 10.7759/cureus.21009. PMID: 35154981; PMCID: PMC8820479. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8820479/>
557. Lai FTT, Li X, Peng K, et al. Carditis After COVID-19 Vaccination With a Messenger RNA Vaccine and an Inactivated Virus Vaccine : A Case-Control Study. *Ann Intern Med*. 2022 Mar;175(3):362-370. doi: 10.7326/M21-3700. Epub 2022 Jan 25. PMID: 35073155; PMCID: PMC8814917. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8814917/>
558. Singer ME, Taub IB, Kaelber DC. Risk of Myocarditis from COVID-19 Infection in People Under Age 20: A Population-Based Analysis. *medRxiv [Preprint]*. 2022 Mar 21:2021.07.23.21260998. doi: 10.1101/2021.07.23.21260998. PMID: 34341797; PMCID: PMC8328065.
559. Ameratunga R, Woon ST, Sheppard MN, Garland J, Ondruschka B, Wong CX, Stewart RAH, Tatley M, Stables SR, Tse RD. First Identified Case of Fatal Fulminant Necrotizing Eosinophilic Myocarditis Following the Initial Dose of the Pfizer-BioNTech mRNA COVID-19 Vaccine (BNT162b2, Comirnaty): an Extremely Rare Idiosyncratic Hypersensitivity

- Reaction. *J Clin Immunol*. 2022 Jan 3:1–7. doi: 10.1007/s10875-021-01187-0. Epub ahead of print. PMID: 34978002; PMCID: PMC8720536.
560. Power JR, Keyt LK, Adler ED. Myocarditis following COVID-19 vaccination: incidence, mechanisms, and clinical considerations. *Expert Rev Cardiovasc Ther*. 2022 Apr 12. doi: 10.1080/14779072.2022.2066522. Epub ahead of print. PMID: 35414326.
561. Sharbatdaran A, Chahal Y, Molaei M, Bhavsar D. A rare case of COVID-19 vaccine-induced myopericarditis in a young adult. *Radiol Case Rep*. 2022 Apr 5;17(6):1916-1920. doi: 10.1016/j.radcr.2022.03.039. PMID: 35401904; PMCID: PMC8980502.
562. Block JP, Boehmer TK, Forrest CB, Carton TW, Lee GM, Ajani UA, Christakis DA, Cowell LG, Draper C, Ghildayal N, Harris AM, Kappelman MD, Ko JY, Mayer KH, Nagavedu K, Oster ME, Paranjape A, Puro J, Ritchey MD, Shay DK, Thacker D, Gundlapalli AV. Cardiac Complications After SARS-CoV-2 Infection and mRNA COVID-19 Vaccination - PCORnet, United States, January 2021-January 2022. *MMWR Morb Mortal Wkly Rep*. 2022 Apr 8;71(14):517-523. doi: 10.15585/mmwr.mm7114e1. PMID: 35389977.
563. Kim SH, Lee SY, Kim GY, Oh JS, Kim J, Chun KJ, Ju MH, Lee CH, Song YJ, Na JY. A Case of Heart Transplantation for Fulminant Myocarditis After ChAdOx1 nCoV-19 Vaccination. *J Korean Med Sci*. 2022 Apr 4;37(13):e104. doi: 10.3346/jkms.2022.37.e104. PMID: 35380028; PMCID: PMC8980363.
564. Terán Brage E, Roldán Ruíz J, González Martín J, Oviedo Rodríguez JD, Vidal Tocino R, Rodríguez Diego S, Sánchez Hernández PL, Bellido Hernández L, Fonseca Sánchez E. Fulminant myocarditis in a patient with a lung adenocarcinoma after the third dose of modern COVID-19 vaccine. A case report and literature review. *Curr Probl Cancer Case Rep*. 2022 Jun;6:100153. doi: 10.1016/j.cpcrr.2022.100153. Epub 2022 Mar 31. PMID: 35378738; PMCID: PMC8968161.
565. Mohammed LM, Dhillon V, Bong JP, Patri J. Myocarditis Secondary to COVID-19 mRNA Vaccine: A Case Report. *Cureus*. 2022 Feb 17;14(2):e22345. doi: 10.7759/cureus.22345. PMID: 35371688; PMCID: PMC8940559.
566. Liu R, Pan J, Zhang C, Sun X. Cardiovascular Complications of COVID-19 Vaccines. *Front Cardiovasc Med*. 2022 Mar 18;9:840929. doi: 10.3389/fcvm.2022.840929. PMID: 35369340; PMCID: PMC8971371.
567. Rosner CM, Atkins M, Saeed IM, de Lemos JA, Khera A, Maghsoudi A, Min J, Tehrani BN, O'Connor CM, deFilippi CR. Patients With Myocarditis Associated With COVID-19 Vaccination. *J Am Coll Cardiol*. 2022 Apr 5;79(13):1317-1319. doi: 10.1016/j.jacc.2022.02.004. PMID: 35361355; PMCID: PMC8958986.
568. Kang DH, Na JY, Yang JH, Moon SH, Kim SH, Jung JJ, Cha HJ, Ahn JH, Park YW, Cho SY, Yu HK, Lee SH, Park MY, Kim JW, Byun JH. Fulminant Giant Cell Myocarditis following Heterologous Vaccination of ChAdOx1 nCoV-19 and Pfizer-BioNTech COVID-19. *Medicina*

- (Kaunas). 2022 Mar 20;58(3):449. doi: 10.3390/medicina58030449. PMID: 35334625; PMCID: PMC8950462.
569. Mancini N, Cortigiani L, Aquaro G, Bovenzi FM. Raro caso di miocardite ed embolia polmonare dopo vaccino a mRNA BNT162b2 [A rare case of myocarditis and pulmonary embolism after BNT162b2 mRNA vaccine]. *G Ital Cardiol (Rome)*. 2022 Apr;23(4):244-246. Italian. doi: 10.1714/3766.37531. PMID: 35343473.
570. Frustaci A, Verardo R, Galea N, Lavallo C, Bagnato G, Scialla R, Chimenti C. Hypersensitivity Myocarditis after COVID-19 mRNA Vaccination. *J Clin Med*. 2022 Mar 16;11(6):1660. doi: 10.3390/jcm11061660. PMID: 35329986; PMCID: PMC8949349.
571. Sciaccaluga C, D'Ascenzi F, Cameli M, Gallotta M, Menci D, Antonelli G, Banchi B, Mochi V, Valente S, Focardi M. Case Report: Two Case Reports of Acute Myopericarditis After mRNA COVID-19 Vaccine. *Front Cardiovasc Med*. 2022 Mar 7;9:827237. doi: 10.3389/fcvm.2022.827237. PMID: 35321100; PMCID: PMC8934973.
572. Gill J, Mallari AJP, Zahra F. Transient Myopericarditis Following Vaccination for COVID-19. *J Med Cases*. 2022 Feb;13(2):80-84. doi: 10.14740/jmc3876. Epub 2022 Feb 16. PMID: 35317093; PMCID: PMC8913003.
573. Lin W, Yip ACL, Evangelista LKM, Wong RCC, Tan HC, Lim TW, Singh D. Ventricular tachycardia from myocarditis following COVID-19 vaccination with tozinameran (BNT162b2, Pfizer-BioNTech). *Pacing Clin Electrophysiol*. 2022 Mar 19. doi: 10.1111/pace.14486. Epub ahead of print. PMID: 35306680.
574. Fatima M, Ahmad Cheema H, Ahmed Khan MH, Shahid H, Saad Ali M, Hassan U, Wahaj Murad M, Aemaz Ur Rehman M, Farooq H. Development of myocarditis and pericarditis after COVID-19 vaccination in adult population: A systematic review. *Ann Med Surg (Lond)*. 2022 Apr;76:103486. doi: 10.1016/j.amsu.2022.103486. Epub 2022 Mar 11. PMID: 35291413; PMCID: PMC8912977.
575. Fosch X, Serra J, Torres PL, Preda L, González R, Mojer F. Acute myocarditis after a third dose of the BNT162b2 COVID-19 vaccine. *Rev Esp Cardiol (Engl Ed)*. 2022 Feb 21:S1885-5857(22)00034-2. doi: 10.1016/j.rec.2022.01.009. Epub ahead of print. PMID: 35277352; PMCID: PMC8903822.
576. Mungmunpantipantip R, Wiwanitkit V. Myocarditis following rAd26 and rAd5 vector-based COVID-19 vaccine: correspondence. *ESC Heart Fail*. 2022 Mar 9. doi: 10.1002/ehf2.13868. Epub ahead of print. PMID: 35266318.
577. Augustin M, Hallek M, Nitschmann S. Myokarditisrisiko bei mRNA-Impfstoffen zur Prävention von COVID-19 [Risk of myocarditis associated with mRNA vaccines for prevention of COVID-19]. *Internist (Berl)*. 2022 Apr;63(4):461-464. German. doi: 10.1007/s00108-022-01293-0. Epub 2022 Mar 9. PMID: 35262745; PMCID: PMC8906115.

578. Oh TH, Woo SH, Hong S, Lee C, Lee WJ, Jeong SK. Clinical Features of Patients Presenting to the Emergency Department With Cardiovascular Adverse Reactions After COVID-19 mRNA Vaccination. *J Korean Med Sci.* 2022 Mar 7;37(9):e73. doi: 10.3346/jkms.2022.37.e73. PMID: 35257528; PMCID: PMC8901880.
579. Parmar K, Mekraksakit P, Del Rio-Pertuz G, Sethi P, Motes A, Hughes M, Wischmeyer J, Carbajal L, Sosa EA. Myocarditis following COVID-19 mRNA vaccination. *Proc (Bayl Univ Med Cent).* 2021 Nov 15;35(2):209-213. doi: 10.1080/08998280.2021.1990743. PMID: 35256821; PMCID: PMC8607537.
580. Chen JH, Ikwuanusi IA, Bommu VJL, Patel V, Aujla H, Kaushik V, Cheriya P. COVID-19 Vaccine-Related Myocarditis: A Descriptive Study of 40 Case Reports. *Cureus.* 2022 Jan 30;14(1):e21740. doi: 10.7759/cureus.21740. PMID: 35251812; PMCID: PMC8887934.
581. Won T, Gilotra NA, Wood MK, Hughes DM, Talor MV, Lovell J, Milstone AM, Steenbergen C, Čiháková D. Increased Interleukin 18-Dependent Immune Responses Are Associated With Myopericarditis After COVID-19 mRNA Vaccination. *Front Immunol.* 2022 Feb 18;13:851620. doi: 10.3389/fimmu.2022.851620. PMID: 35251049; PMCID: PMC8894592.
582. Kawakami T, Yahagi K, Sekiguchi M, Ishizawa T, Nonaka H, Setoguchi N, Watanabe Y, Nakase M, Horiuchi Y, Asami M, Yuzawa H, Komiyama K, Tanaka J, Aoki J, Tanabe K. Acute Myocarditis in a Patient Following mRNA-1273 SARS-CoV-2 Vaccination. *Intern Med.* 2022 Mar 5. doi: 10.2169/internalmedicine.9000-21. Epub ahead of print. PMID: 35249920.
583. Lee CH, Kong EJ. FDG PET/MRI of Acute Myocarditis After mRNA COVID-19 Vaccination. *Clin Nucl Med.* 2022 May 1;47(5):e421-e422. doi: 10.1097/RLU.00000000000004123. PMID: 35234199; PMCID: PMC8983619.
584. Yap J, Tham MY, Poh J, Toh D, Chan CL, Lim TW, Lim SL, Chia YW, Lim YT, Choo J, Ding ZP, Foo LL, Kuo S, Lau YH, Lee A, Yeo KK. Pericarditis and myocarditis after COVID-19 mRNA vaccination in a nationwide setting. *Ann Acad Med Singap.* 2022 Feb;51(2):96-100. doi: 10.47102/annals-acadmedsg.2021425. PMID: 35224605.
585. Manfredi R, Bianco F, Bucciarelli V, Ciliberti G, Guerra F, Schicchi N, Tavio M, Berton E, Surace FC, Colaneri M, Gallina S, Pozzi M. Clinical Profiles and CMR Findings of Young Adults and Pediatrics with Acute Myocarditis Following mRNA COVID-19 Vaccination: A Case Series. *Vaccines (Basel).* 2022 Jan 22;10(2):169. doi: 10.3390/vaccines10020169. PMID: 35214629; PMCID: PMC8874396.
586. De Jesus ML, Yabut J, Kumar M, Meng J. Cardiac Adverse Reactions With COVID-19 Vaccinations. *Cureus.* 2022 Jan 18;14(1):e21372. doi: 10.7759/cureus.21372. PMID: 35198284; PMCID: PMC8854204.
587. Van Kerkhove O, Renders F, Leys M. A case of myocarditis following ChAdOx1 nCov-19 vaccination. *Acta Cardiol.* 2022 Feb 21:1-3. doi: 10.1080/00015385.2022.2040825. Epub ahead of print. PMID: 35189775.

588. Kazama S, Okumura T, Kimura Y, Ito R, Araki T, Mizutani T, Oishi H, Kuwayama T, Hiraiwa H, Kondo T, Morimoto R, Saeki T, Murohara T. Biopsy-proven Fulminant Myocarditis Requiring Mechanical Circulatory Support Following COVID-19 mRNA Vaccination. *CJC Open*. 2022 Feb 13. doi: 10.1016/j.cjco.2022.02.004. Epub ahead of print. PMID: 35187464; PMCID: PMC8842092.
589. Kounis NG, Koniari I, Mplani V, Plotas P, Tsigkas G. First Identified Case of Fatal Fulminant Eosinophilic Myocarditis Following the Initial Dose of the Pfizer-BioNTech mRNA COVID-19 Vaccine (BNT162b2, Comirnaty): an Extremely Rare Idiosyncratic Necrotizing Hypersensitivity Reaction Different to Hypersensitivity or Drug-Induced Myocarditis. *J Clin Immunol*. 2022 Feb 17:1–2. doi: 10.1007/s10875-022-01228-2. Epub ahead of print. PMID: 35178640; PMCID: PMC8852986.
590. Koiwaya H, Nishihira K, Tomozoe K, Shibata Y. Serial histopathologic assessment of fulminant myocarditis after the first mRNA COVID-19 vaccine dose. *Eur Heart J*. 2022 Feb 18:ehac083. doi: 10.1093/eurheartj/ehac083. Epub ahead of print. PMID: 35178573.
591. Bengel CP, Kacapor R. A report of two cases of myocarditis following mRNA coronavirus disease 2019 vaccination. *Eur Heart J Case Rep*. 2022 Jan 9;6(1):ytac004. doi: 10.1093/ehjcr/ytac004. PMID: 35169677; PMCID: PMC8755378.
592. Sadiq W, Waleed MS, Suen P, Chalhoub MN. Cardiopulmonary Arrest After COVID-19 Vaccination: A Case Report. *Cureus*. 2022 Jan 12;14(1):e21141. doi: 10.7759/cureus.21141. PMID: 35165592; PMCID: PMC8831382.
593. Saeed S, Käsk L, Rajani R, Larsen TH. Incidence, clinical presentation and management of myocarditis following mRNA-based Covid-19 vaccines: A brief report. *Cardiology*. 2022 Feb 1. doi: 10.1159/000522216. Epub ahead of print. PMID: 35104821.
594. Wong J, Sharma S, Yao JV, Aggarwal A, Grigg L. COVID-19 mRNA vaccine (Comirnaty)-induced myocarditis. *Med J Aust*. 2022 Feb 21;216(3):122-123. doi: 10.5694/mja2.51394. Epub 2022 Jan 24. PMID: 35075640.
595. Lai FTT, Li X, Peng K, Huang L, Ip P, Tong X, Chui CSL, Wan EYF, Wong CKH, Chan EWY, Siu DCW, Wong ICK. Carditis After COVID-19 Vaccination With a Messenger RNA Vaccine and an Inactivated Virus Vaccine : A Case-Control Study. *Ann Intern Med*. 2022 Mar;175(3):362-370. doi: 10.7326/M21-3700. Epub 2022 Jan 25. PMID: 35073155; PMCID: PMC8814917.
596. Goldman RD. Myocarditis and pericarditis after COVID-19 messenger RNA vaccines. *Can Fam Physician*. 2022 Jan;68(1):17-18. doi: 10.46747/cfp.680117. PMID: 35063975.
597. June Choe Y, Yi S, Hwang I, Kim J, Park YJ, Cho E, Jo M, Lee H, Hwa Choi E. Safety and effectiveness of BNT162b2 mRNA Covid-19 vaccine in adolescents. *Vaccine*. 2022 Jan

Cardiac Disorders (Other)

598. Grundy S. Mrna COVID vaccines dramatically increase endothelial inflammatory markers and risk of Acute Coronary Syndrome as measured by PULS cardiac testing: a caution. *Circulation*. Abstract 10712. https://www.ahajournals.org/doi/10.1161/circ.144.suppl_1.10712
599. Chiang CY, Yu WL, Kan WC, et al. Myocardial Infarction and Azygos Vein Thrombosis After ChAdOx1 nCoV-19 Vaccination in a Hemodialysis Patient. *Cureus*. 2021 Sep 30;13(9):e18390. doi: 10.7759/cureus.18390. PMID: 34650896; PMCID: PMC8489656. <https://pubmed.ncbi.nlm.nih.gov/34650896/>
600. Crane P, Wong C, Mehta N, et al. Takotsubo (stress) cardiomyopathy after ChAdOx1 nCoV-19 vaccination. *BMJ Case Rep*. 2021 Oct 8;14(10):e246580. doi: 10.1136/bcr-2021-246580. PMID: 34625447; PMCID: PMC8504353. <https://pubmed.ncbi.nlm.nih.gov/34625447/>
601. Fearon C, Parwani P, Gow-Lee B, et al. Takotsubo syndrome after receiving the COVID-19 vaccine. *J Cardiol Cases*. 2021 Nov;24(5):223-226. doi: 10.1016/j.jccase.2021.08.012. Epub 2021 Sep 15. PMID: 34539938; PMCID: PMC8440167. <https://pubmed.ncbi.nlm.nih.gov/34539938/>.
602. Toida R, Uezono S, Komatsu H, et al. Takotsubo cardiomyopathy after vaccination for coronavirus disease 2019 in a patient on maintenance hemodialysis. *CEN Case Rep*. 2021 Nov 3:1–5. doi: 10.1007/s13730-021-00657-z. Epub ahead of print. PMID: 34731486; PMCID: PMC8564792. <https://pubmed.ncbi.nlm.nih.gov/34731486/>.
603. Boivin Z, Martin J. Untimely Myocardial Infarction or COVID-19 Vaccine Side Effect. *Cureus*. 2021 Mar 2;13(3):e13651. doi: 10.7759/cureus.13651. PMID: 33824804; PMCID: PMC8012173. <https://pubmed.ncbi.nlm.nih.gov/33824804/>
604. Jabagi MJ, Botton J, Bertrand M, et al. Myocardial Infarction, Stroke, and Pulmonary Embolism After BNT162b2 mRNA COVID-19 Vaccine in People Aged 75 Years or Older. *JAMA*. 2022 Jan 4;327(1):80-82. doi: 10.1001/jama.2021.21699. PMID: 34807248; PMCID: PMC8609457. <https://pubmed.ncbi.nlm.nih.gov/34807248/>
605. Özdemir İH, Özlek B, Özen MB, et al. Type 1 Kounis Syndrome Induced by Inactivated SARS-COV-2 Vaccine. *J Emerg Med*. 2021 Oct;61(4):e71-e76. doi: 10.1016/j.jemermed.2021.04.018. Epub 2021 May 7. PMID: 34148772; PMCID: PMC8103145. <https://pubmed.ncbi.nlm.nih.gov/34148772/>

606. Kounis NG, Koniari I, Mplani V, et al. Acute Myocardial Infarction Within 24 Hours After COVID-19 Vaccination: Is Kounis Syndrome the Culprit? *Am J Cardiol.* 2022 Jan 1;162:207. doi: 10.1016/j.amjcard.2021.09.032. Epub 2021 Oct 24. PMID: 34702550; PMCID: PMC8541841. <https://pubmed.ncbi.nlm.nih.gov/34702550/>
607. Barsha SY, Akiful Haque MM, Rashid MU, et al. A case of acute encephalopathy and non-ST segment elevation myocardial infarction following mRNA-1273 vaccination: possible adverse effect? *Clin Exp Vaccine Res.* 2021 Sep;10(3):293-297. doi: 10.7774/cevr.2021.10.3.293. Epub 2021 Sep 30. PMID: 34703815; PMCID: PMC8511584. <https://pubmed.ncbi.nlm.nih.gov/34703815/>
608. Fazlollahi A, Zahmatyar M, Noori M, et al. Cardiac complications following mRNA COVID-19 vaccines: A systematic review of case reports and case series. *Rev Med Virol.* 2021 Dec 17:e2318. doi: 10.1002/rmv.2318. Epub ahead of print. PMID: 34921468. <https://www.ncbi.nlm.nih.gov/pubmed/34921468>
609. Spinner JA, Julien CL, Olayinka L, et al. SARS-CoV-2 anti-spike antibodies after vaccination in pediatric heart transplantation: A first report. *J Heart Lung Transplant.* 2022 Feb;41(2):133-136. doi: 10.1016/j.healun.2021.11.001. Epub 2021 Nov 14. PMID: 34911654; PMCID: PMC8590844. <https://www.ncbi.nlm.nih.gov/pubmed/34911654>
610. Sung JG, Sobieszczyk PS, Bhatt DL. Acute Myocardial Infarction Within 24 Hours After COVID-19 Vaccination. *Am J Cardiol.* 2021 Oct 1;156:129-131. doi: 10.1016/j.amjcard.2021.06.047. Epub 2021 Jul 12. PMID: 34364657; PMCID: PMC8272970. <https://pubmed.ncbi.nlm.nih.gov/34364657/>.
611. Ho JS, Sia CH, Ngiam JN, et al. A review of COVID-19 vaccination and the reported cardiac manifestations. *Singapore Med J.* 2021 Nov 19. doi: 10.11622/smedj.2021210. Epub ahead of print. PMID: 34808708. <https://www.ncbi.nlm.nih.gov/pubmed/34808708>
612. Sadiq W, Waleed MS, Suen P, Chalhoub MN. Cardiopulmonary Arrest After COVID-19 Vaccination: A Case Report. *Cureus.* 2022 Jan 12;14(1):e21141. doi: 10.7759/cureus.21141. PMID: 35165592; PMCID: PMC8831382. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8831382/>

Dementia / Alzheimer's / Delirium

613. Naharci MI, Tasci I. Delirium in a patient with Alzheimer's dementia following COVID-19 vaccination. *Psychogeriatrics.* 2021 Sep;21(5):846-847. doi: 10.1111/psyg.12747. Epub 2021 Jul 10. PMID: 34245485; PMCID: PMC8447320.
614. Garrido I, Lopes S, Simões MS, Liberal R, Lopes J, Carneiro F, Macedo G. Autoimmune hepatitis after COVID-19 vaccine - more than a coincidence. *J Autoimmun.* 2021 Dec;125:102741. doi: 10.1016/j.jaut.2021.102741. Epub 2021 Oct 26. PMID: 34717185; PMCID: PMC8547941.

615. Al-Mashdali AF, Ata YM, Sadik N. Post-COVID-19 vaccine acute hyperactive encephalopathy with dramatic response to methylprednisolone: A case report. *Ann Med Surg (Lond)*. 2021 Sep;69:102803. doi: 10.1016/j.amsu.2021.102803. Epub 2021 Sep 6. PMID: 34512961; PMCID: PMC8420261.
<https://www.sciencedirect.com/science/article/pii/S2049080121007536>
616. Vegezzi E, Ravaglia S, Buongarzone G, et al. Acute myelitis and ChAdOx1 nCoV-19 vaccine: Casual or causal association? *J Neuroimmunol*. 2021 Oct 15;359:577686. doi: 10.1016/j.jneuroim.2021.577686. Epub 2021 Jul 31. PMID: 34392078; PMCID: PMC8325554. <https://www.sciencedirect.com/science/article/pii/S0165572821002137>
617. Khayat-Khoei M, Bhattacharyya S, Katz J, et al. COVID-19 mRNA vaccination leading to CNS inflammation: a case series. *J Neurol*. 2021 Sep 4:1–14. doi: 10.1007/s00415-021-10780-7. Epub ahead of print. PMID: 34480607; PMCID: PMC8417681. <https://link.springer.com/article/10.1007/s00415-021-10780-7>
618. Ismail II, Salama S. A systematic review of cases of CNS demyelination following COVID-19 vaccination. *J Neuroimmunol*. 2022 Jan 15;362:577765. doi: 10.1016/j.jneuroim.2021.577765. Epub 2021 Nov 9. PMID: 34839149; PMCID: PMC8577051. <https://pubmed.ncbi.nlm.nih.gov/34839149/>
619. Kwon H, Kim T. Autoimmune encephalitis following ChAdOx1-S SARS-CoV-2 vaccination. *Neurol Sci*. 2021 Nov 30:1–3. doi: 10.1007/s10072-021-05790-2. Epub ahead of print. PMID: 34846583; PMCID: PMC8630512. <https://pubmed.ncbi.nlm.nih.gov/34846583/>
620. Zuhorn F, Graf T, Klingebiel R, et al. Postvaccinal Encephalitis after ChAdOx1 nCov-19. *Ann Neurol*. 2021 Sep;90(3):506-511. doi: 10.1002/ana.26182. Epub 2021 Aug 13. PMID: 34324214; PMCID: PMC8426979. <https://pubmed.ncbi.nlm.nih.gov/34324214/>
621. Corrêa DG, Cañete LAQ, Dos Santos GAC, et al. Neurological symptoms and neuroimaging alterations related with COVID-19 vaccine: Cause or coincidence? *Clin Imaging*. 2021 Dec;80:348-352. doi: 10.1016/j.clinimag.2021.08.021. Epub 2021 Sep 7. PMID: 34507266; PMCID: PMC8421080. <https://pubmed.ncbi.nlm.nih.gov/34507266/>
622. Román GC, Gracia F, Torres A, et al. Acute Transverse Myelitis (ATM): Clinical Review of 43 Patients With COVID-19-Associated ATM and 3 Post-Vaccination ATM Serious Adverse Events With the ChAdOx1 nCoV-19 Vaccine (AZD1222). *Front Immunol*. 2021 Apr 26;12:653786. doi: 10.3389/fimmu.2021.653786. PMID: 33981305; PMCID: PMC8107358. <https://pubmed.ncbi.nlm.nih.gov/33981305/>
623. Tahir N, Koorapati G, Prasad S, et al. SARS-CoV-2 Vaccination-Induced Transverse Myelitis. *Cureus*. 2021 Jul 25;13(7):e16624. doi: 10.7759/cureus.16624. PMID: 34458035; PMCID: PMC8384391. <https://pubmed.ncbi.nlm.nih.gov/34458035/>

624. Notghi AA, Atley J, Silva M. Lessons of the month 1: Longitudinal extensive transverse myelitis following AstraZeneca COVID-19 vaccination. *Clin Med (Lond)*. 2021 Sep;21(5):e535-e538. doi: 10.7861/clinmed.2021-0470. PMID: 34507942; PMCID: PMC8439525. <https://pubmed.ncbi.nlm.nih.gov/34507942/>.
625. Keir G, Maria NI, Kirsch CFE. Unique Imaging Findings of Neurologic Phantasmia Following Pfizer-BioNtech COVID-19 Vaccination: A Case Report. *Top Magn Reson Imaging*. 2021 Jun 1;30(3):133-137. doi: 10.1097/RMR.0000000000000287. PMID: 34096896. <https://pubmed.ncbi.nlm.nih.gov/34096896/>
626. Watchmaker JM, Belani PB. Brain death in a vaccinated patient with COVID-19 infection. *Clin Imaging*. 2022 Jan;81:92-95. doi: 10.1016/j.clinimag.2021.09.020. Epub 2021 Oct 11. PMID: 34656887; PMCID: PMC8502685.: <https://pubmed.ncbi.nlm.nih.gov/34656887/>
627. Erdem NŞ, Demirci S, Özel T, et al. Acute transverse myelitis after inactivated COVID-19 vaccine. *Idegyogy Sz*. 2021 Jul 30;74(7-08):273-276. English. doi: 10.18071/isz.74.0273. PMID: 34370410. <https://pubmed.ncbi.nlm.nih.gov/34370410/>
628. Pagenkopf C, Südmeyer M. A case of longitudinally extensive transverse myelitis following vaccination against Covid-19. *J Neuroimmunol*. 2021 Sep 15;358:577606. doi: 10.1016/j.jneuroim.2021.577606. Epub 2021 Jun 24. PMID: 34182207; PMCID: PMC8223023. <https://pubmed.ncbi.nlm.nih.gov/34579245/>.
629. A case of longitudinally extensive transverse myelitis following Covid-19 vaccination: <https://pubmed.ncbi.nlm.nih.gov/34182207/>
630. Ahmad SA, Salih KH, Ahmed SF, et al. Post COVID-19 transverse myelitis; a case report with review of literature. *Ann Med Surg (Lond)*. 2021 Sep;69:102749. doi: 10.1016/j.amsu.2021.102749. Epub 2021 Aug 23. PMID: 34457267; PMCID: PMC8380545. <https://pubmed.ncbi.nlm.nih.gov/34457267/>.
631. Chen S, Fan XR, He S, et al. Watch out for neuromyelitis optica spectrum disorder after inactivated virus vaccination for COVID-19. *Neurol Sci*. 2021 Sep;42(9):3537-3539. doi: 10.1007/s10072-021-05427-4. Epub 2021 Jun 29. PMID: 34189662; PMCID: PMC8241205. <https://pubmed.ncbi.nlm.nih.gov/34189662/>
632. Fujikawa P, Shah FA, Braford M, et al. Neuromyelitis Optica in a Healthy Female After Severe Acute Respiratory Syndrome Coronavirus 2 mRNA-1273 Vaccine. *Cureus*. 2021 Sep 14;13(9):e17961. doi: 10.7759/cureus.17961. PMID: 34660149; PMCID: PMC8516014. <https://pubmed.ncbi.nlm.nih.gov/34660149/>
633. Kaulen LD, Doubrovinskaia S, Mooshage C, et al. Neurological autoimmune diseases following vaccinations against SARS-CoV-2: a case series. *Eur J Neurol*. 2022 Feb;29(2):555-563. doi: 10.1111/ene.15147. Epub 2021 Oct 31. PMID: 34668274; PMCID: PMC8652629. <https://pubmed.ncbi.nlm.nih.gov/34668274/>.

634. Finsterer J. Neurological side effects of SARS-CoV-2 vaccinations. *Acta Neurol Scand.* 2022 Jan;145(1):5-9. doi: 10.1111/ane.13550. Epub 2021 Nov 8. PMID: 34750810; PMCID: PMC8653194. <https://pubmed.ncbi.nlm.nih.gov/34750810>
635. Sriwastava S, Shrestha AK, Khalid SH, et al. Spectrum of Neuroimaging Findings in Post-COVID-19 Vaccination: A Case Series and Review of Literature. *Neurol Int.* 2021 Nov 19;13(4):622-639. doi: 10.3390/neurolint13040061. PMID: 34842783; PMCID: PMC8628885. <https://pubmed.ncbi.nlm.nih.gov/34842783/>
636. Sepahvand M, Yazdi N, Rohani M, et al. Cervical longitudinally extensive myelitis after vaccination with inactivated virus-based COVID-19 vaccine. *Radiol Case Rep.* 2022 Feb;17(2):303-305. doi: 10.1016/j.radcr.2021.10.053. Epub 2021 Nov 25. PMID: 34849183; PMCID: PMC8614237. <https://pubmed.ncbi.nlm.nih.gov/34849183/>
637. Tan WY, Yusof Khan AHK, Mohd Yaakob MN, et al. Longitudinal extensive transverse myelitis following ChAdOx1 nCOV-19 vaccine: a case report. *BMC Neurol.* 2021 Oct 12;21(1):395. doi: 10.1186/s12883-021-02427-x. PMID: 34641797; PMCID: PMC8506086. <https://pubmed.ncbi.nlm.nih.gov/34641797/>.
638. Hsiao YT, Tsai MJ, Chen YH, Hsu CF. Acute Transverse Myelitis after COVID-19 Vaccination. *Medicina (Kaunas).* 2021 Sep 25;57(10):1010. doi: 10.3390/medicina57101010. PMID: 34684047; PMCID: PMC8540274. <https://pubmed.ncbi.nlm.nih.gov/34684047/>.
639. Garg RK, Paliwal VK. Spectrum of neurological complications following COVID-19 vaccination. *Neurol Sci.* 2022 Jan;43(1):3-40. doi: 10.1007/s10072-021-05662-9. Epub 2021 Oct 31. PMID: 34719776; PMCID: PMC8557950. <https://pubmed.ncbi.nlm.nih.gov/34719776/>.
640. Román GC, Gracia F, Torres A, Palacios A, et al. Acute Transverse Myelitis (ATM): Clinical Review of 43 Patients With COVID-19-Associated ATM and 3 Post-Vaccination ATM Serious Adverse Events With the ChAdOx1 nCoV-19 Vaccine (AZD1222). *Front Immunol.* 2021 Apr 26;12:653786. doi: 10.3389/fimmu.2021.653786. PMID: 33981305; PMCID: PMC8107358. <https://pubmed.ncbi.nlm.nih.gov/33981305/>.
641. Maniscalco GT, Manzo V, Di Battista ME, et al. Severe Multiple Sclerosis Relapse After COVID-19 Vaccination: A Case Report. *Front Neurol.* 2021 Aug 10;12:721502. doi: 10.3389/fneur.2021.721502. PMID: 34447349; PMCID: PMC8382847. <https://pubmed.ncbi.nlm.nih.gov/34447349/>
642. Al-Mashdali AF, Ata YM, Sadik N. Post-COVID-19 vaccine acute hyperactive encephalopathy with dramatic response to methylprednisolone: A case report. *Ann Med Surg (Lond).* 2021 Sep;69:102803. doi: 10.1016/j.amsu.2021.102803. Epub 2021 Sep 6. PMID: 34512961; PMCID: PMC8420261. <https://pubmed.ncbi.nlm.nih.gov/34512961/>
643. Vogrig A, Janes F, Gigli GL, et al. Acute disseminated encephalomyelitis after SARS-CoV-2 vaccination. *Clin Neurol Neurosurg.* 2021 Sep;208:106839. doi:

- 10.1016/j.clineuro.2021.106839. Epub 2021 Jul 21. PMID: 34325334; PMCID: PMC8294707. <https://pubmed.ncbi.nlm.nih.gov/34325334/>
644. Khayat-Khoei M, Bhattacharyya S, Katz J, et al. COVID-19 mRNA vaccination leading to CNS inflammation: a case series. *J Neurol*. 2021 Sep 4;1–14. doi: 10.1007/s00415-021-10780-7. Epub ahead of print. PMID: 34480607; PMCID: PMC8417681. <https://pubmed.ncbi.nlm.nih.gov/34480607/>
645. Crespo Burillo JA, Lorienté Martínez C, García Arguedas C, et al. Amyotrophic neuralgia secondary to Vaxzevri (AstraZeneca) COVID-19 vaccine. *Neurologia (Engl Ed)*. 2021 Sep;36(7):571-572. doi: 10.1016/j.nrleng.2021.05.002. Epub 2021 Jul 28. PMID: 34330677; PMCID: PMC8316086. <https://pubmed.ncbi.nlm.nih.gov/34330677/>
646. Helmchen C, Buttler GM, Markewitz R, et al. Acute bilateral optic/chiasm neuritis with longitudinal extensive transverse myelitis in longstanding stable multiple sclerosis following vector-based vaccination against the SARS-CoV-2. *J Neurol*. 2022 Jan;269(1):49-54. doi: 10.1007/s00415-021-10647-x. Epub 2021 Jun 15. PMID: 34131771; PMCID: PMC8205198. <https://pubmed.ncbi.nlm.nih.gov/34131771/>
647. Notghi AA, Atley J, Silva M. Lessons of the month 1: Longitudinal extensive transverse myelitis following AstraZeneca COVID-19 vaccination. *Clin Med (Lond)*. 2021 Sep;21(5):e535-e538. doi: 10.7861/clinmed.2021-0470. PMID: 34507942; PMCID: PMC8439525. <https://pubmed.ncbi.nlm.nih.gov/34507942/>.
648. Khayat-Khoei M, Bhattacharyya S, Katz J, et al. COVID-19 mRNA vaccination leading to CNS inflammation: a case series. *J Neurol*. 2021 Sep 4;1–14. doi: 10.1007/s00415-021-10780-7. Epub ahead of print. PMID: 34480607; PMCID: PMC8417681. <https://pubmed.ncbi.nlm.nih.gov/34480607/>
649. Göbel CH, Heinze A, Karstedt S, et al. Headache Attributed to Vaccination Against COVID-19 (Coronavirus SARS-CoV-2) with the ChAdOx1 nCoV-19 (AZD1222) Vaccine: A Multicenter Observational Cohort Study. *Pain Ther*. 2021 Dec;10(2):1309-1330. doi: 10.1007/s40122-021-00296-3. Epub 2021 Jul 27. PMID: 34313952; PMCID: PMC8314854. <https://pubmed.ncbi.nlm.nih.gov/34313952/>
650. Keir G, Maria NI, Kirsch CFE. Unique Imaging Findings of Neurologic Phantosmia Following Pfizer-BioNtech COVID-19 Vaccination: A Case Report. *Top Magn Reson Imaging*. 2021 Jun 1;30(3):133-137. doi: 10.1097/RMR.000000000000287. PMID: 34096896. <https://pubmed.ncbi.nlm.nih.gov/34096896/>
651. Garg RK, Paliwal VK. Spectrum of neurological complications following COVID-19 vaccination. *Neurol Sci*. 2022 Jan;43(1):3-40. doi: 10.1007/s10072-021-05662-9. Epub 2021 Oct 31. PMID: 34719776; PMCID: PMC8557950. <https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8557950/>

652. Waheed W, Carey ME, Tandan SR, Tandan R. Post COVID-19 vaccine small fiber neuropathy. *Muscle Nerve*. 2021 Jul;64(1):E1-E2. doi: 10.1002/mus.27251. Epub 2021 Apr 28. PMID: 33851437; PMCID: PMC8250971.
<https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8250971/>
653. Lee MA, Lee C, Park JH, Lee JH. Early-Onset Myasthenia Gravis Following COVID-19 Vaccination. *J Korean Med Sci*. 2022 Mar 14;37(10):e50. doi: 10.3346/jkms.2022.37.e50. PMID: 35289135. <https://pubmed.ncbi.nlm.nih.gov/35289135/>
654. Ishizuchi K, Takizawa T, Sekiguchi K, Motegi H, Oyama M, Nakahara J, Suzuki S. Flare of myasthenia gravis induced by COVID-19 vaccines. *J Neurol Sci*. 2022 Mar 9;436:120225. doi: 10.1016/j.jns.2022.120225. Epub ahead of print. PMID: 35290838; PMCID: PMC8906005. <https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8906005/>
655. Suwanwela NC, Kijpaisalratana N, Tepmongkol S, Rattanawong W, Vorasayan P, Charnnarong C, Tantivattana J, Roongruang S, Ongphichetmetha T, Panjasriprakarn P, Chutinet A, Akarathanawat W, Saver JL. Prolonged migraine aura resembling ischemic stroke following CoronaVac vaccination: an extended case series. *J Headache Pain*. 2022 Jan 21;23(1):13. doi: 10.1186/s10194-022-01385-0. PMID: 35062869; PMCID: PMC8777408.
656. Matar E, Manser D, Spies JM, et al. Acute Hemichorea-Hemiballismus Following COVID-19 (AZD1222) Vaccination. *Mov Disord*. 2021 Dec;36(12):2714-2715. doi: 10.1002/mds.28796. Epub 2021 Sep 28. PMID: 34581453; PMCID: PMC8661968. <https://pubmed.ncbi.nlm.nih.gov/34581453/>
657. Al-Quliti K, Qureshi A, Quadri M, Abdulhameed B, Alanazi A, Alhujeyli R. Acute Demyelinating Encephalomyelitis Post-COVID-19 Vaccination: A Case Report and Literature Review. *Diseases*. 2022 Feb 20;10(1):13. doi: 10.3390/diseases10010013. PMID: 35225865; PMCID: PMC8884009.
658. Zlotnik Y, Gadoth A, Abu-Salameh I, Horev A, Novoa R, Ifergane G. Case Report: Anti-LGI1 Encephalitis Following COVID-19 Vaccination. *Front Immunol*. 2022 Jan 5;12:813487. doi: 10.3389/fimmu.2021.813487. PMID: 35069602; PMCID: PMC8766789.
659. Assiri SA, Althaqafi RMM, Alswat K, Alghamdi AA, Alomairi NE, Nemenqani DM, Ibrahim ZS, Elkady A. Post COVID-19 Vaccination-Associated Neurological Complications. *Neuropsychiatr Dis Treat*. 2022 Feb 2;18:137-154. doi: 10.2147/NDT.S343438. PMID: 35140464; PMCID: PMC8818972.
660. Walter U, Volmer E, Wittstock M, Storch A, Weber MA, Großmann A. Hirnvenen- und Sinusthrombose nach COVID-19-Schutzimpfung : Neurologisch-radiologisches Prozedere [Cerebral venous sinus thrombosis after COVID-19 vaccination : Neurological and radiological management]. *Radiologe*. 2021 Oct;61(10):923-932. German. doi: 10.1007/s00117-021-00887-3. Epub 2021 Jul 29. PMID: 34327553; PMCID: PMC8320717.

661. Fowler N, Mendez Martinez NR, Pallares BV, et al. Acute-onset central serous retinopathy after immunization with COVID-19 mRNA vaccine. *Am J Ophthalmol Case Rep.* 2021 Sep;23:101136. doi: 10.1016/j.ajoc.2021.101136. Epub 2021 Jun 12. PMID: 34151047; PMCID: PMC8195685. <https://www.sciencedirect.com/science/article/pii/S2451993621001456>.
662. Nowak VA, Scully M, Davagnanam I, et al. Neuro-ophthalmic complications with ChAdOx1 nCoV-19 vaccine-induced thrombocytopenia and thrombosis. *Br J Hosp Med (Lond).* 2021 Oct 2;82(10):1-4. doi: 10.12968/hmed.2021.0428. Epub 2021 Oct 21. PMID: 34726934. <https://pubmed.ncbi.nlm.nih.gov/34726934/>
663. Book BAJ, Schmidt B, Foerster AMH. Bilateral Acute Macular Neuroretinopathy After Vaccination Against SARS-CoV-2. *JAMA Ophthalmol.* 2021 Jul 1;139(7):e212471. doi: 10.1001/jamaophthalmol.2021.2471. Epub 2021 Jul 21. PMID: 34287612. <https://pubmed.ncbi.nlm.nih.gov/34287612/>
664. Chuang TY, Burda K, Teklemariam E, et al. Tolosa-Hunt Syndrome Presenting After COVID-19 Vaccination. *Cureus.* 2021 Jul 31;13(7):e16791. doi: 10.7759/cureus.16791. PMID: 34513398; PMCID: PMC8405240. <https://pubmed.ncbi.nlm.nih.gov/34513398/>
665. Pan L, Zhang Y, Cui Y, Wu X. Bilateral uveitis after inoculation with COVID-19 vaccine: A case report. *Int J Infect Dis.* 2021 Dec;113:116-118. doi: 10.1016/j.ijid.2021.09.075. Epub 2021 Sep 30. PMID: 34601147; PMCID: PMC8482656. <https://www.sciencedirect.com/science/article/pii/S1201971221007797>
666. Ng XL, Betzler BK, Testi I, et al. Ocular Adverse Events After COVID-19 Vaccination. *Ocul Immunol Inflamm.* 2021 Aug 18;29(6):1216-1224. doi: 10.1080/09273948.2021.1976221. Epub 2021 Sep 24. PMID: 34559576; PMCID: PMC8477588. <https://pubmed.ncbi.nlm.nih.gov/34559576/>
667. Zheng F, Willis A, Kunjukunju N. Acute Retinal Necrosis from Reactivation of Varicella Zoster Virus following BNT162b2 mRNA COVID-19 Vaccination. *Ocul Immunol Inflamm.* 2021 Dec 1:1-3. doi: 10.1080/09273948.2021.2001540. Epub ahead of print. PMID: 34851795. <https://pubmed.ncbi.nlm.nih.gov/34851795/>.
668. Silva LSCD, Finamor LPS, Andrade GC, et al. Vascular retinal findings after COVID-19 vaccination in 11 cases: a coincidence or consequence? *Arq Bras Oftalmol.* 2022 Jan 21:S0004-27492022005001202. doi: 10.5935/0004-2749.20220071. Epub ahead of print. PMID: 35298583. <https://pubmed.ncbi.nlm.nih.gov/35298583/>
669. Tomishige KS, Novais EA, Finamor LPDS, Nascimento HMD, Belfort R Jr. Multiple evanescent white dot syndrome (MEWDS) following inactivated COVID-19 vaccination (Sinovac-CoronaVac). *Arq Bras Oftalmol.* 2022 Jan 21:S0004-27492022005001201. doi:

10.5935/0004-2749.20220070. Epub ahead of print. PMID: 35298582.
<https://pubmed.ncbi.nlm.nih.gov/35298582/>

670. Renisi G, Lombardi A, Stanzione M, Invernizzi A, Bandera A, Gori A. Anterior uveitis onset after bnt162b2 vaccination: is this just a coincidence? *Int J Infect Dis.* 2021 Sep;110:95-97. doi: 10.1016/j.ijid.2021.07.035. Epub 2021 Jul 18. PMID: 34289406.
671. Anamnart C, Tisavipat N, Owattanapanich W, Apiwattanakul M, Savangned P, Prayoonwiwat N, Siritho S, Rattanathamsakul N, Jitprapaikulsan J. Newly diagnosed neuromyelitis optica spectrum disorders following vaccination: Case report and systematic review. *Mult Scler Relat Disord.* 2022 Feb;58:103414. doi: 10.1016/j.msard.2021.103414. Epub 2021 Nov 18. PMID: 35216789.

Facial Nerve Palsy

672. Sato K, Mano T, Niimi Y, et al. Facial nerve palsy following the administration of COVID-19 mRNA vaccines: analysis of a self-reporting database. *Int J Infect Dis.* 2021 Oct;111:310-312. doi: 10.1016/j.ijid.2021.08.071. Epub 2021 Sep 4. PMID: 34492394; PMCID: PMC8418051. <https://www.sciencedirect.com/science/article/pii/S1201971221007049>
673. Soeiro T, Salvo F, Pariente A, et al. Type I interferons as the potential mechanism linking mRNA COVID-19 vaccines to Bell's palsy. *Therapie.* 2021 Jul-Aug;76(4):365-367. doi: 10.1016/j.therap.2021.03.005. Epub 2021 Apr 2. PMID: 33858693; PMCID: PMC8016545. <https://pubmed.ncbi.nlm.nih.gov/33858693/>
674. Wan EYF, Chui CSL, Lai FTT, et al. Bell's palsy following vaccination with mRNA (BNT162b2) and inactivated (CoronaVac) SARS-CoV-2 vaccines: a case series and nested case-control study. *Lancet Infect Dis.* 2022 Jan;22(1):64-72. doi: 10.1016/S1473-3099(21)00451-5. Epub 2021 Aug 16. PMID: 34411532; PMCID: PMC8367195. <https://pubmed.ncbi.nlm.nih.gov/34411532/>
675. Cirillo N, Doan R. Bell's palsy and SARS-CoV-2 vaccines-an unfolding story. *Lancet Infect Dis.* 2021 Sep;21(9):1210-1211. doi: 10.1016/S1473-3099(21)00273-5. Epub 2021 Jun 7. PMID: 34111409; PMCID: PMC8184125. <https://www.sciencedirect.com/science/article/pii/S1473309921002735>
676. Repajic M, Lai XL, Xu P, et al. Bell's Palsy after second dose of Pfizer COVID-19 vaccination in a patient with history of recurrent Bell's palsy. *Brain Behav Immun Health.* 2021 May;13:100217. doi: 10.1016/j.bbih.2021.100217. Epub 2021 Feb 10. PMID: 33594349; PMCID: PMC7874945. <https://www.sciencedirect.com/science/article/pii/S266635462100020X>
677. Gómez de Terreros Caro G, Gil Díaz S, Pérez Alé M, et al. Bell's palsy following COVID-19 vaccination: a case report. *Neurologia (Engl Ed).* 2021 Sep;36(7):567-568. doi:

- 10.1016/j.nrleng.2021.04.002. Epub 2021 Jul 22. PMID: 34330676; PMCID: PMC8295024. <https://www.sciencedirect.com/science/article/pii/S217358082100122X>.
678. Shemer A, Pras E, Einan-Lifshitz A, et al. Association of COVID-19 Vaccination and Facial Nerve Palsy: A Case-Control Study. *JAMA Otolaryngol Head Neck Surg*. 2021 Aug 1;147(8):739-743. doi: 10.1001/jamaoto.2021.1259. PMID: 34165512; PMCID: PMC8227442. <https://pubmed.ncbi.nlm.nih.gov/34165512/>
679. Cirillo N, Doan R. The association between COVID-19 vaccination and Bell's palsy. *Lancet Infect Dis*. 2022 Jan;22(1):5-6. doi: 10.1016/S1473-3099(21)00467-9. Epub 2021 Aug 16. PMID: 34411533; PMCID: PMC8367190. <https://pubmed.ncbi.nlm.nih.gov/34411533/>
680. Colella G, Orlandi M, Cirillo N. Bell's palsy following COVID-19 vaccination. *J Neurol*. 2021 Oct;268(10):3589-3591. doi: 10.1007/s00415-021-10462-4. Epub 2021 Feb 21. PMID: 33611630; PMCID: PMC7897359. <https://pubmed.ncbi.nlm.nih.gov/33611630/>
681. Iftikhar H, Noor SMU, Masood M, et al. Bell's Palsy After 24 Hours of mRNA-1273 SARS-CoV-2 Vaccine. *Cureus*. 2021 Jun 26;13(6):e15935. doi: 10.7759/cureus.15935. PMID: 34336436; PMCID: PMC8312995. <https://pubmed.ncbi.nlm.nih.gov/34336436/>
682. Burrows A, Bartholomew T, Rudd J, et al. Sequential contralateral facial nerve palsies following COVID-19 vaccination first and second doses. *BMJ Case Rep*. 2021 Jul 19;14(7):e243829. doi: 10.1136/bcr-2021-243829. PMID: 34281950; PMCID: PMC8291314. <https://pubmed.ncbi.nlm.nih.gov/34281950/>.
683. olk GF, Kutteneich AM, Geitner M, et al. Eine akute Fazialisparese als mögliche Impfkomplication bei einer Impfung gegen SARS-CoV-2 [Acute facial paresis as a possible complication of vaccination against SARS-CoV-2]. *Laryngorhinootologie*. 2021 Jul;100(7):526-528. German. doi: 10.1055/a-1501-0470. Epub 2021 May 11. PMID: 33975372. <https://pubmed.ncbi.nlm.nih.gov/33975372/>.
684. Obermann M, Krasniqi M, Ewers N, et al. Bell's palsy following COVID-19 vaccination with high CSF antibody response. *Neurol Sci*. 2021 Nov;42(11):4397-4399. doi: 10.1007/s10072-021-05496-5. Epub 2021 Jul 29. PMID: 34322761; PMCID: PMC8318623. <https://pubmed.ncbi.nlm.nih.gov/34322761/>.
685. Finsterer J, Scorza FA. SARS-CoV-2 or SARS-CoV-2 vaccination associated Parsonage-Turner syndrome. Comment on: "Neuralgic amyotrophy and COVID-19 infection: 2 cases of spinal accessory nerve palsy" by Coll et al. *Joint Bone Spine* 2021;88:105196. *Joint Bone Spine*. 2021 Dec;88(6):105239. doi: 10.1016/j.jbspin.2021.105239. Epub 2021 Jun 15. PMID: 34139321; PMCID: PMC8205293. <https://pubmed.ncbi.nlm.nih.gov/34139321/>.
686. Martin-Villares C, Vazquez-Feito A, Gonzalez-Gimeno MJ, et al. Bell's palsy following a single dose of mRNA SARS-CoV-2 vaccine: a case report. *J Neurol*. 2022 Jan;269(1):47-48. doi: 10.1007/s00415-021-10617-3. Epub 2021 May 25. PMID: 34032902; PMCID: PMC8143982. <https://pubmed.ncbi.nlm.nih.gov/34032902/>.

687. Shemer A, Pras E, Hecht I. Peripheral Facial Nerve Palsy Following BNT162b2 (COVID-19) Vaccination. *Isr Med Assoc J.* 2021 Mar;23(3):143-144. PMID: 33734623. <https://pubmed.ncbi.nlm.nih.gov/33734623/>
688. Reyes-Capo DP, Stevens SM, Cavuoto KM. Acute abducens nerve palsy following COVID-19 vaccination. *J AAPOS.* 2021 Oct;25(5):302-303. doi: 10.1016/j.jaapos.2021.05.003. Epub 2021 May 24. PMID: 34044114; PMCID: PMC8142812. <https://pubmed.ncbi.nlm.nih.gov/34044114/>.
689. Sato K, Mano T, Niimi Y, et al. Facial nerve palsy following the administration of COVID-19 mRNA vaccines: analysis of a self-reporting database. *Int J Infect Dis.* 2021 Oct;111:310-312. doi: 10.1016/j.ijid.2021.08.071. Epub 2021 Sep 4. PMID: 34492394; PMCID: PMC8418051. <https://pubmed.ncbi.nlm.nih.gov/34492394/>
690. Pappaterra MC, Rivera EJ, Oliver AL. Transient Oculomotor Palsy Following the Administration of the Messenger RNA-1273 Vaccine for SARS-CoV-2 Diplopia Following the COVID-19 Vaccine. *J Neuroophthalmol.* 2021 Aug 4. doi: 10.1097/WNO.0000000000001369. Epub ahead of print. PMID: 34369471. <https://pubmed.ncbi.nlm.nih.gov/34369471/>
691. Nishizawa Y, Hoshina Y, Baker V. Bell's palsy following the Ad26.COV2.S COVID-19 vaccination. *QJM.* 2021 Nov 13;114(9):657-658. doi: 10.1093/qjmed/hcab143. PMID: 34014316; PMCID: PMC8244554. <https://pubmed.ncbi.nlm.nih.gov/34014316/>
692. Gómez de Terreros Caro G, Gil Díaz S, Pérez Alé M, et al. Bell's palsy following COVID-19 vaccination: a case report. *Neurologia (Engl Ed).* 2021 Sep;36(7):567-568. doi: 10.1016/j.nrleng.2021.04.002. Epub 2021 Jul 22. PMID: 34330676; PMCID: PMC8295024. <https://pubmed.ncbi.nlm.nih.gov/34330676/>
693. Nasuelli NA, De Marchi F, Cecchin M, et al. A case of acute demyelinating polyradiculoneuropathy with bilateral facial palsy after ChAdOx1 nCoV-19 vaccine. *Neurol Sci.* 2021 Nov;42(11):4747-4749. doi: 10.1007/s10072-021-05467-w. Epub 2021 Jul 17. PMID: 34272622; PMCID: PMC8285283. <https://pubmed.ncbi.nlm.nih.gov/34272622/>
694. Khouri C, Roustit M, Cracowski J. Adverse event reporting and risk of Bell's palsy after COVID-19 vaccination. 2021 Nov. 01. *The Lancet* vol. 21 Issue 11. [https://www.thelancet.com/journals/laninf/article/PIIS1473-3099\(21\)00646-0/fulltext](https://www.thelancet.com/journals/laninf/article/PIIS1473-3099(21)00646-0/fulltext).
695. Mason MC, Liaqat A, Morrow J, et al. Bilateral Facial Nerve Palsy and COVID-19 Vaccination: Causation or Coincidence? *Cureus.* 2021 Aug 31;13(8):e17602. doi: 10.7759/cureus.17602. PMID: 34522557; PMCID: PMC8425028. <https://pubmed.ncbi.nlm.nih.gov/34522557/>

696. Cellina M, D'Arrigo A, Floridi C, et al. Left Bell's palsy following the first dose of mRNA-1273 SARS-CoV-2 vaccine: A case report. *Clin Imaging*. 2022 Feb;82:1-4. doi: 10.1016/j.clinimag.2021.10.010. Epub 2021 Nov 4. PMID: 34763263; PMCID: PMC8566211. <https://pubmed.ncbi.nlm.nih.gov/34763263/>.
697. Yu BY, Cen LS, Chen T, et al. Bell's palsy after inactivated COVID-19 vaccination in a patient with history of recurrent Bell's palsy: A case report. *World J Clin Cases*. 2021 Sep 26;9(27):8274-8279. doi: 10.12998/wjcc.v9.i27.8274. PMID: 34621891; PMCID: PMC8462203. <https://pubmed.ncbi.nlm.nih.gov/34621891/>
698. Nasuelli NA, De Marchi F, Cecchin M, et al. A case of acute demyelinating polyradiculoneuropathy with bilateral facial palsy after ChAdOx1 nCoV-19 vaccine. *Neurol Sci*. 2021 Nov;42(11):4747-4749. doi: 10.1007/s10072-021-05467-w. Epub 2021 Jul 17. PMID: 34272622; PMCID: PMC8285283. <https://pubmed.ncbi.nlm.nih.gov/34272622/>
699. Cirillo N. Reported orofacial adverse effects of COVID-19 vaccines: The knowns and the unknowns. *J Oral Pathol Med*. 2021 Apr;50(4):424-427. doi: 10.1111/jop.13165. Epub 2021 Feb 19. PMID: 33527524; PMCID: PMC8013400. <https://pubmed.ncbi.nlm.nih.gov/33527524/>

Gastroparesis

700. Scott J, Anderson J, Mallak N, et al. Gastroparesis After Pfizer-BioNTech COVID-19 Vaccination. *Am J Gastroenterol*. 2021 Nov 1;116(11):2300. doi: 10.14309/ajg.0000000000001354. PMID:34187985. <https://pubmed.ncbi.nlm.nih.gov/34187985/>.

Guillain Barre Syndrome

701. Dufour C, Co TK, Liu A. GM1 ganglioside antibody and COVID-19 related Guillain Barre Syndrome - A case report, systemic review and implication for vaccine development. *Brain Behav Immun Health*. 2021 Mar;12:100203. doi: 10.1016/j.bbih.2021.100203. Epub 2021 Jan 13. PMID: 33462567; PMCID: PMC7805391. <https://www.sciencedirect.com/science/article/pii/S2666354621000065>
702. Introna A, Caputo F, Santoro C, et al. Guillain-Barré syndrome after AstraZeneca COVID-19-vaccination: A causal or casual association? *Clin Neurol Neurosurg*. 2021 Sep;208:106887. doi: 10.1016/j.clineuro.2021.106887. Epub 2021 Aug 13. PMID: 34418708; PMCID: PMC8360997. <https://www.sciencedirect.com/science/article/pii/S0303846721004169>
703. Min YG, Ju W, Ha YE, et al. Sensory Guillain-Barre syndrome following the ChAdOx1 nCov-19 vaccine: Report of two cases and review of literature. *J Neuroimmunol*. 2021 Oct 15;359:577691. doi: 10.1016/j.jneuroim.2021.577691. Epub 2021 Aug 8. PMID:

- 34416410; PMCID:
PMC8349403. <https://www.sciencedirect.com/science/article/pii/S0165572821002186>
704. Ogbebor O, Seth H, Min Z, et al. Guillain-Barré syndrome following the first dose of SARS-CoV-2 vaccine: A temporal occurrence, not a causal association. *IDCases*. 2021;24:e01143. doi: 10.1016/j.idcr.2021.e01143. Epub 2021 Apr 30. PMID: 33968610; PMCID: PMC8086372. <https://www.sciencedirect.com/science/article/pii/S2214250921000998>.
705. Rossetti A, Gheihman G, O'Hare M, et al. Guillain-Barré Syndrome Presenting as Facial Diplegia after COVID-19 Vaccination: A Case Report. *J Emerg Med*. 2021 Dec;61(6):e141-e145. doi: 10.1016/j.jemermed.2021.07.062. Epub 2021 Aug 7. PMID: 34538679; PMCID: PMC8346349. <https://www.sciencedirect.com/science/article/pii/S0736467921006442>
706. Theuriet J, Richard C, Becker J, et al. Guillain-Barré syndrome following first injection of ChAdOx1 nCoV-19 vaccine: First report. *Rev Neurol (Paris)*. 2021 Dec;177(10):1305-1307. doi: 10.1016/j.neurol.2021.04.005. Epub 2021 Jun 24. PMID: 34217513. <https://www.sciencedirect.com/science/article/pii/S0035378721005853>.
707. Finsterer J. SARS-CoV-2 vaccinations are unsafe for those experiencing post-vaccination Guillain-Barre syndrome. *Ann Med Surg (Lond)*. 2021 Aug;68:102584. doi: 10.1016/j.amsu.2021.102584. Epub 2021 Jul 19. PMID: 34306673; PMCID: PMC8288229. <https://www.sciencedirect.com/science/article/pii/S2049080121005343>
708. Christensen SK, Ballegaard M, Boesen MS. [Guillain Barré syndrome after mRNA-1273 vaccination against COVID-19]. *Ugeskr Laeger*. 2021 Aug 30;183(35):V05210455. Danish. PMID: 34477091. <https://pubmed.ncbi.nlm.nih.gov/34477091/>
709. Oo WM, Giri P, de Souza A. AstraZeneca COVID-19 vaccine and Guillain-Barré Syndrome in Tasmania: A causal link? *J Neuroimmunol*. 2021 Nov 15;360:577719. doi: 10.1016/j.jneuroim.2021.577719. Epub 2021 Sep 17. PMID: 34560365; PMCID: PMC8447540. <https://pubmed.ncbi.nlm.nih.gov/34560365/>
710. Aomar-Millán IF, Martínez de Victoria-Carazo J, Peregrina-Rivas JA, et al. COVID-19, Guillain-Barré y vacuna. Una mezcla peligrosa [COVID-19, Guillain-Barré syndrome, and the vaccine. A dangerous combination]. *Rev Clin Esp*. 2021 Nov;221(9):555-557. Spanish. doi: 10.1016/j.rce.2021.05.005. Epub 2021 Jun 5. PMID: 34108736; PMCID: PMC8179060. <https://pubmed.ncbi.nlm.nih.gov/34108736/>.
711. Bouattour N, Hdiji O, Sakka S, et al. Guillain-Barré syndrome following the first dose of Pfizer-BioNTech COVID-19 vaccine: case report and review of reported cases. *Neurol Sci*. 2022 Feb;43(2):755-761. doi: 10.1007/s10072-021-05733-x. Epub 2021 Nov 18. PMID: 34796417; PMCID: PMC8601771. <https://pubmed.ncbi.nlm.nih.gov/34796417/>.
712. Trimboli M, Zoleo P, Arabia G, et al. Guillain-Barré syndrome following BNT162b2 COVID-19 vaccine. *Neurol Sci*. 2021 Nov;42(11):4401-4402. doi: 10.1007/s10072-021-05523-5.

- Epub 2021 Aug 4. PMID: 34346014; PMCID: PMC8331323. <https://link.springer.com/article/10.1007%2Fs10072-021-05523-5>.
713. Pegat A, Vogrig A, Khouri C, et al. Adenovirus COVID-19 Vaccines and Guillain-Barré Syndrome with Facial Paralysis. *Ann Neurol*. 2022 Jan;91(1):162-163. doi: 10.1002/ana.26258. Epub 2021 Nov 12. PMID: 34699065; PMCID: PMC8652690. <https://onlinelibrary.wiley.com/doi/10.1002/ana.26258>.
714. Woo EJ, Mba-Jonas A, Dimova RB, et al. Association of Receipt of the Ad26.COV2.S COVID-19 Vaccine With Presumptive Guillain-Barré Syndrome, February-July 2021. *JAMA*. 2021 Oct 26;326(16):1606-1613. doi: 10.1001/jama.2021.16496. PMID: 34617967; PMCID: PMC8498927. <https://jamanetwork.com/journals/jama/fullarticle/2785009>
715. Rao SJ, Khurana S, Murthy G, et al. A case of Guillain-Barre syndrome following Pfizer COVID-19 vaccine. *J Community Hosp Intern Med Perspect*. 2021 Sep 20;11(5):597-600. doi: 10.1080/20009666.2021.1954284. PMID: 34567447; PMCID: PMC8462911. <https://pubmed.ncbi.nlm.nih.gov/34567447/>
716. Shao SC, Wang CH, Chang KC, et al. Guillain-Barré Syndrome Associated with COVID-19 Vaccination. *Emerg Infect Dis*. 2021 Dec;27(12):3175-3178. doi: 10.3201/eid2712.211634. Epub 2021 Oct 14. PMID: 34648420; PMCID: PMC8632191. <https://pubmed.ncbi.nlm.nih.gov/34648420/>.
717. Shapiro Ben David S, Potasman I, et al. Rate of Recurrent Guillain-Barré Syndrome After mRNA COVID-19 Vaccine BNT162b2. *JAMA Neurol*. 2021 Nov 1;78(11):1409-1411. doi: 10.1001/jamaneurol.2021.3287. PMID: 34468703; PMCID: PMC8411356. <https://jamanetwork.com/journals/jamaneurology/fullarticle/2783708>
718. Malamud E, Otallah SI, Caress JB, Lapid DJ. Guillain-Barré Syndrome After COVID-19 Vaccination in an Adolescent. *Pediatr Neurol*. 2022 Jan;126:9-10. doi: 10.1016/j.pediatrneurol.2021.10.003. Epub 2021 Oct 8. Erratum in: *Pediatr Neurol*. 2021 Dec 10;: PMID: 34717201; PMCID: PMC8498800. [https://www.pedneur.com/article/S0887-8994\(21\)00221-6/fulltext](https://www.pedneur.com/article/S0887-8994(21)00221-6/fulltext).
719. Maramattom BV, Krishnan P, Paul R, et al. Guillain-Barré Syndrome following ChAdOx1-S/nCoV-19 Vaccine. *Ann Neurol*. 2021 Aug;90(2):312-314. doi: 10.1002/ana.26143. Epub 2021 Jun 22. PMID: 34114256. <https://pubmed.ncbi.nlm.nih.gov/34114256/>.
720. Masuccio FG, Comi C, Solaro C. Guillain-Barrè syndrome following COVID-19 vaccine mRNA-1273: a case report. *Acta Neurol Belg*. 2021 Nov 12:1–3. doi: 10.1007/s13760-021-01838-4. Epub ahead of print. PMID: 34767184; PMCID: PMC8586608. <https://pubmed.ncbi.nlm.nih.gov/34767184/>.
721. Finsterer J, Scorza FA, Scorza CA. Post SARS-CoV-2 vaccination Guillain-Barre syndrome in 19 patients. *Clinics (Sao Paulo)*. 2021 Oct 11;76:e3286. doi: 10.6061/clinics/2021/e3286. PMID: 34644738; PMCID: PMC8478139. <https://pubmed.ncbi.nlm.nih.gov/34644738/>.

722. Kanabar G, Wilkinson P. Guillain-Barré syndrome presenting with facial diplegia following COVID-19 vaccination in two patients. *BMJ Case Rep.* 2021 Oct 14;14(10):e244527. doi: 10.1136/bcr-2021-244527. PMID: 34649856; PMCID: PMC8522664. <https://pubmed.ncbi.nlm.nih.gov/34649856/>
723. Kripalani Y, Lakkappan V, Parulekar L, et al. A Rare Case of Guillain-Barré Syndrome following COVID-19 Vaccination. *Eur J Case Rep Intern Med.* 2021 Sep 14;8(9):002707. doi: 10.12890/2021_002797. PMID: 34671572; PMCID: PMC8523377. <https://pubmed.ncbi.nlm.nih.gov/34671572/>
724. Waheed S, Bayas A, Hindi F, et al. Neurological Complications of COVID-19: Guillain-Barre Syndrome Following Pfizer COVID-19 Vaccine. *Cureus.* 2021 Feb 18;13(2):e13426. doi: 10.7759/cureus.13426. PMID: 33758714; PMCID: PMC7978140. <https://pubmed.ncbi.nlm.nih.gov/33758714/>
725. Matarneh AS, Al-Battah AH, Farooqui K, et al. COVID-19 vaccine causing Guillain-Barre syndrome, a rare potential side effect. *Clin Case Rep.* 2021 Aug 30;9(9):e04756. doi: 10.1002/ccr3.4756. PMID: 34484780; PMCID: PMC8405530. <https://pubmed.ncbi.nlm.nih.gov/34484780/>
726. Čenšćák D, Ungermann L, Štětkářová I, et al. Guillan-Barré Syndrome after First Vaccination Dose against COVID-19: Case Report. *Acta Medica (Hradec Kralove).* 2021;64(3):183-186. doi: 10.14712/18059694.2021.31. PMID: 34779385. <https://pubmed.ncbi.nlm.nih.gov/34779385/>.
727. Khan E, Shrestha AK, Colantonio MA, et al. Acute transverse myelitis following SARS-CoV-2 vaccination: a case report and review of literature. *J Neurol.* 2021 Sep 5:1–12. doi: 10.1007/s00415-021-10785-2. Epub ahead of print. PMID: 34482455; PMCID: PMC8418691. <https://pubmed.ncbi.nlm.nih.gov/34482455/>.
728. Allen CM, Ramsamy S, Tarr AW, et al. Guillain-Barré Syndrome Variant Occurring after SARS-CoV-2 Vaccination. *Ann Neurol.* 2021 Aug;90(2):315-318. doi: 10.1002/ana.26144. Epub 2021 Jul 2. PMID: 34114269. <https://pubmed.ncbi.nlm.nih.gov/34114269/>.
729. Dalwadi V, Hancock D, Ballout AA, Et al. Axonal-Variant Guillian-Barre Syndrome Temporally Associated With mRNA-Based Moderna SARS-CoV-2 Vaccine. *Cureus.* 2021 Sep 26;13(9):e18291. doi: 10.7759/cureus.18291. PMID: 34722067; PMCID: PMC8546902. <https://pubmed.ncbi.nlm.nih.gov/34722067/>
730. Ogbebor O, Seth H, Min Z, et al. Guillain-Barré syndrome following the first dose of SARS-CoV-2 vaccine: A temporal occurrence, not a causal association. *IDCases.* 2021;24:e01143. doi: 10.1016/j.idcr.2021.e01143. Epub 2021 Apr 30. PMID: 33968610; PMCID: PMC8086372. <https://pubmed.ncbi.nlm.nih.gov/33968610/>
731. Finsterer J. SARS-CoV-2 vaccinations may not only be complicated by GBS but also by distal small fibre neuropathy. *J Neuroimmunol.* 2021 Nov 15;360:577703. doi:

- 10.1016/j.jneuroim.2021.577703. Epub 2021 Aug 28. PMID: 34525410; PMCID: PMC8397486. <https://pubmed.ncbi.nlm.nih.gov/34525410/>
732. Badoiu A, Moranne O, Coudray S, et al. Clinical Variant of Guillain-Barre Syndrome With Prominent Facial Diplegia After AstraZeneca Coronavirus Disease 2019 Vaccine. *J Clin Neuromuscul Dis.* 2021 Dec 1;23(2):115-116. doi: 10.1097/CND.0000000000000383. PMID: 34808658. <https://pubmed.ncbi.nlm.nih.gov/34808658/>
733. Patone M, Handunnetthi L, Saatci D, et al. Neurological complications after first dose of COVID-19 vaccines and SARS-CoV-2 infection. *Nat Med.* 2021 Dec;27(12):2144-2153. doi: 10.1038/s41591-021-01556-7. Epub 2021 Oct 25. Erratum in: *Nat Med.* 2021 Nov 29;: PMID: 34697502; PMCID: PMC8629105. <https://pubmed.ncbi.nlm.nih.gov/34697502/>
734. Bonifacio GB, Patel D, Cook S, et al. Bilateral facial weakness with paraesthesia variant of Guillain-Barré syndrome following Vaxzevria COVID-19 vaccine. *J Neurol Neurosurg Psychiatry.* 2021 Jul 14;jnnp-2021-327027. doi: 10.1136/jnnp-2021-327027. Epub ahead of print. PMID: 34261746. <https://pubmed.ncbi.nlm.nih.gov/34261746/>
735. Theuriet J, Richard C, Becker J, et al. Guillain-Barré syndrome following first injection of ChAdOx1 nCoV-19 vaccine: First report. *Rev Neurol (Paris).* 2021 Dec;177(10):1305-1307. doi: 10.1016/j.neurol.2021.04.005. Epub 2021 Jun 24. PMID: 34217513. <https://pubmed.ncbi.nlm.nih.gov/34217513/>.
736. Fukushima T, Tomita M, Ikeda S, et al. A case of sensory ataxic Guillain-Barré syndrome with immunoglobulin G anti-GM1 antibodies following the first dose of mRNA COVID-19 vaccine BNT162b2 (Pfizer). *QJM.* 2022 Jan 21;115(1):25-27. doi: 10.1093/qjmed/hcab296. PMID: 34871447; PMCID: PMC8690109. <https://pubmed.ncbi.nlm.nih.gov/34871447/>
737. Nosedà R, Ripellino P, Ghidossi S, et al. Reporting of Acute Inflammatory Neuropathies with COVID-19 Vaccines: Subgroup Disproportionality Analyses in VigiBase. *Vaccines (Basel).* 2021 Sep 14;9(9):1022. doi: 10.3390/vaccines9091022. PMID: 34579259; PMCID: PMC8473382. <https://pubmed.ncbi.nlm.nih.gov/34579259/>
738. Tutar NK, Eyigürbüz T, Yildirim Z, et al. A variant of Guillain-Barre syndrome after SARS-CoV-2 vaccination: AMSAN. *Idегgyogy Sz.* 2021 Jul 30;74(7-08):286-288. English. doi: 10.18071/isz.74.0286. PMID: 34370408. <https://pubmed.ncbi.nlm.nih.gov/34370408/>.
739. Morehouse ZP, Paulus A, Jasti SA, et al. A Rare Variant of Guillain-Barre Syndrome Following Ad26.COV2.S Vaccination. *Cureus.* 2021 Sep 21;13(9):e18153. doi: 10.7759/cureus.18153. PMID: 34703690; PMCID: PMC8529941. <https://pubmed.ncbi.nlm.nih.gov/34703690/>.
740. Ling L, Bagshaw SM, Villeneuve PM. Guillain-Barré syndrome after SARS-CoV-2 vaccination in a patient with previous vaccine-associated Guillain-Barré syndrome. *CMAJ.* 2021 Nov 22;193(46):E1766-E1769. doi: 10.1503/cmaj.210947. PMID: 34810163; PMCID: PMC8608454. <https://pubmed.ncbi.nlm.nih.gov/34810163/>

741. Osowicki J, Morgan H, Harris A, et al. Guillain-Barré Syndrome in an Australian State Using Both mRNA and Adenovirus-Vector SARS-CoV-2 Vaccines. *Ann Neurol*. 2021 Nov;90(5):856-858. doi: 10.1002/ana.26218. Epub 2021 Sep 28. PMID: 34528279; PMCID: PMC8652921. <https://onlinelibrary.wiley.com/doi/10.1002/ana.26218>.
742. Jain E, Pandav K, Regmi P, et al. Facial Diplegia: A Rare, Atypical Variant of Guillain-Barré Syndrome and Ad26.COVS.S Vaccine. *Cureus*. 2021 Jul 25;13(7):e16612. doi: 10.7759/cureus.16612. PMID: 34447646; PMCID: PMC8381448. <https://pubmed.ncbi.nlm.nih.gov/34447646/>
743. Prasad A, Hurlburt G, Podury S, et al. A Novel Case of Bifacial Diplegia Variant of Guillain-Barré Syndrome Following Janssen COVID-19 Vaccination. *Neurol Int*. 2021 Aug 13;13(3):404-409. doi: 10.3390/neurolint13030040. PMID: 34449715; PMCID: PMC8395825. <https://pubmed.ncbi.nlm.nih.gov/34449715/>
744. Min YG, Ju W, Ha YE, et al. Sensory Guillain-Barre syndrome following the ChAdOx1 nCov-19 vaccine: Report of two cases and review of literature. *J Neuroimmunol*. 2021 Oct 15;359:577691. doi: 10.1016/j.jneuroim.2021.577691. Epub 2021 Aug 8. PMID: 34416410; PMCID: PMC8349403. <https://pubmed.ncbi.nlm.nih.gov/34416410/>.
745. James J, Jose J, Gafoor VA, et al. Guillain-Barré syndrome following ChAdOx1 nCoV-19 COVID-19 vaccination: A case series. *Neurol Clin Neurosci*. 2021 Sep;9(5):402-405. doi: 10.1111/ncn3.12537. Epub 2021 Jul 21. PMID: 34548920; PMCID: PMC8447386. <https://pubmed.ncbi.nlm.nih.gov/34548920/>
746. Abičić A, Adamec I, Habek M. Miller Fisher syndrome following Pfizer COVID-19 vaccine. *Neurol Sci*. 2021 Nov 24:1–3. doi: 10.1007/s10072-021-05776-0. Epub ahead of print. PMID: 34817727; PMCID: PMC8611397. <https://pubmed.ncbi.nlm.nih.gov/34817727/>.
747. Nishiguchi Y, Matsuyama H, Maeda K, et al. Miller Fisher syndrome following BNT162b2 mRNA coronavirus 2019 vaccination. *BMC Neurol*. 2021 Nov 18;21(1):452. doi: 10.1186/s12883-021-02489-x. PMID: 34789193; PMCID: PMC8598937. <https://pubmed.ncbi.nlm.nih.gov/34789193/>.
748. Dang YL, Bryson A. Miller-Fisher Syndrome and Guillain-Barre Syndrome overlap syndrome in a patient post Oxford-AstraZeneca SARS-CoV-2 vaccination. *BMJ Case Rep*. 2021 Nov 30;14(11):e246701. doi: 10.1136/bcr-2021-246701. PMID: 34848426; PMCID: PMC8634230. <https://pubmed.ncbi.nlm.nih.gov/34848426/>.
749. Kim Y, Zhu Z, Kochar P, Gavigan P, Kaur D, Kumar A. A Pediatric Case of Sensory Predominant Guillain-Barré Syndrome Following COVID-19 Vaccination. *Child Neurol Open*. 2022 Jan 25;9:2329048X221074549. doi: 10.1177/2329048X221074549. PMID: 35097156; PMCID: PMC8793378. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8793378/>

750. Kim Y, Zhu Z, Kochar P, Gavigan P, Kaur D, Kumar A. A Pediatric Case of Sensory Predominant Guillain-Barré Syndrome Following COVID-19 Vaccination. *Child Neurol Open*. 2022 Jan 25;9:2329048X221074549. doi: 10.1177/2329048X221074549. PMID: 35097156; PMCID: PMC8793378.
751. Lanman TA, Wu C, Cheung H, Goyal N, Greene M. Guillain-Barré Syndrome with Rapid Onset and Autonomic Dysfunction Following First Dose of Pfizer-BioNTech COVID-19 Vaccine: A Case Report. *Neurohospitalist*. 2022 Apr;12(2):388-390. doi: 10.1177/19418744211065242. PMID: 35401916; PMCID: PMC8977423.

Hearing Loss / Tinnitus

752. Jeong J, Choi HS. Sudden sensorineural hearing loss after COVID-19 vaccination. *Int J Infect Dis*. 2021 Dec;113:341-343. doi: 10.1016/j.ijid.2021.10.025. Epub 2021 Oct 17. PMID: 34670143; PMCID: PMC8520501. <https://pubmed.ncbi.nlm.nih.gov/34670143/>.
753. Ahmed SH, Waseem S, Shaikh TG, Qadir NA, Siddiqui SA, Ullah I, Waris A, Yousaf Z. SARS-CoV-2 vaccine-associated-tinnitus: A review. *Ann Med Surg (Lond)*. 2022 Mar;75:103293. doi: 10.1016/j.amsu.2022.103293. Epub 2022 Jan 25. PMID: 35096388; PMCID: PMC8788157. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8788157/>
754. Alcas O, Mamani D. Hipoacusia súbita luego de vacunación contra la COVID-19 [Sudden hearing loss after COVID-19 vaccination]. *Rev Peru Med Exp Salud Publica*. 2021 Oct-Dec;38(4):664-665. Spanish. doi: 10.17843/rpmesp.2021.384.8752. Epub 2022 Apr 1. PMID: 35385022.
755. Ulrich AK, Sundaram ME, Osterholm MT. Rare Sudden Sensorineural Hearing Loss Potentially Associated With COVID-19 Vaccination Does Not Outweigh the Benefit of COVID-19 Vaccines. *JAMA Otolaryngol Head Neck Surg*. 2022 Apr 1;148(4):315-316. doi: 10.1001/jamaoto.2021.4279. PMID: 35201285.
756. Yanir Y, Doweck I, Shibli R, Najjar-Debbiny R, Saliba W. Association Between the BNT162b2 Messenger RNA COVID-19 Vaccine and the Risk of Sudden Sensorineural Hearing Loss. *JAMA Otolaryngol Head Neck Surg*. 2022 Apr 1;148(4):299-306. doi: 10.1001/jamaoto.2021.4278. PMID: 35201275; PMCID: PMC8874902.
757. Formeister EJ, Wu MJ, Chari DA, Meek R 3rd, Rauch SD, Remenschneider AK, Quesnel AM, de Venecia R, Lee DJ, Chien W, Stewart CM, Galaiya D, Kozin ED, Sun DQ. Assessment of Sudden Sensorineural Hearing Loss After COVID-19 Vaccination. *JAMA Otolaryngol Head Neck Surg*. 2022 Apr 1;148(4):307-315. doi: 10.1001/jamaoto.2021.4414. PMID: 35201274; PMCID: PMC8874871.
758. Canales Medina M, Ramirez Gómez M. Tinnitus, Sudden Sensorineural Hearing Loss, and Vestibular Neuritis As Complications of the Astra Zeneca COVID-19 Vaccine. *Cureus*. 2022 Jan 3;14(1):e20906. doi: 10.7759/cureus.20906. PMID: 35145810; PMCID: PMC8810281.

759. Finsterer J, Scorza FA, Fiorini AC. Impaired hearing following SARS-CoV-2 vaccinations. *Int J Infect Dis.* 2022 Feb;115:215-216. doi: 10.1016/j.ijid.2021.12.317. Epub 2021 Dec 9. PMID: 34896579; PMCID: PMC8654803.
760. Zhao H, Li Y, Wang Z. Adverse event of Sinovac Coronavirus vaccine: Deafness. *Vaccine.* 2022 Jan 24;40(3):521-523. doi: 10.1016/j.vaccine.2021.11.091. Epub 2021 Dec 9. PMID: 34895936; PMCID: PMC8655822.
761. Briggs SE, Brenner MJ, Chandrasekhar SS. Sudden Sensorineural Hearing Loss and COVID-19 Vaccination. *JAMA Otolaryngol Head Neck Surg.* 2022 Feb 1;148(2):196-197. doi: 10.1001/jamaoto.2021.3384. PMID: 34817571.
762. Tsetsos N, Poutoglidis A, Vlachtsis K, Kilmpasanis A, Gougousis S. Sudden Sensorineural Hearing Loss Following the Second Dose of COVID-19 Vaccine. *Cureus.* 2021 Aug 25;13(8):e17435. doi: 10.7759/cureus.17435. PMID: 34589343; PMCID: PMC8462391.
763. Canales Medina M, Ramirez Gómez M. Tinnitus, Sudden Sensorineural Hearing Loss, and Vestibular Neuritis As Complications of the Astra Zeneca COVID-19 Vaccine. *Cureus.* 2022 Jan 3;14(1):e20906. doi: 10.7759/cureus.20906. PMID: 35145810; PMCID: PMC8810281.
764. Tseng PT, Chen TY, Sun YS, Chen YW, Chen JJ. The reversible tinnitus and cochleopathy followed first-dose AstraZeneca COVID-19 vaccination. *QJM.* 2021 Nov 13;114(9):663-664. doi: 10.1093/qjmed/hcab210. PMID: 34297133; PMCID: PMC8344939.

Hemolytic Uremic Syndrome

765. Ferrer F, Roldão M, Figueiredo C, Lopes K. Atypical Hemolytic Uremic Syndrome after ChAdOx1 nCoV-19 Vaccination in a Patient with Homozygous CFHR3/CFHR1 Gene Deletion. *Nephron.* 2022;146(2):185-189. doi: 10.1159/000519461. Epub 2021 Nov 1. PMID: 34724668; PMCID: PMC8678224.

Hemorrhage

766. Bjørnstad-Tuveng TH, Rudjord A, Anker P. Fatal cerebral haemorrhage after COVID-19 vaccine. *Tidsskr Nor Laegeforen.* 2021 Apr 29;141. English, Norwegian. doi: 10.4045/tidsskr.21.0312. PMID: 33928772. <https://pubmed.ncbi.nlm.nih.gov/33928772/>
767. Finsterer J. Lobar bleeding with ventricular rupture shortly after first dosage of an mRNA-based SARS-CoV-2 vaccine. *Brain Hemorrhages.* 2021 Oct 28. doi: 10.1016/j.hebst.2021.10.001. Epub ahead of print. PMID: 34729467; PMCID: PMC8553377. <https://pubmed.ncbi.nlm.nih.gov/34729467/>.

768. Melgosa Ramos FJ, Estébanez Corrales A, Mateu Puchades A. Acral haemorrhage after the second dose administration of SARS-CoV-2 vaccine. A post-vaccinal reaction? *Med Clin (Barc)*. 2021 Nov 26;157(10):506. English, Spanish. doi: 10.1016/j.medcli.2021.04.021. Epub 2021 May 11. PMID: 34092400; PMCID: PMC8112292. <https://pubmed.ncbi.nlm.nih.gov/34092400/742>.
769. Takeyama R, Fukuda K, Kouzaki Y, et al. Intracerebral hemorrhage due to vasculitis following COVID-19 vaccination: a case report. *Acta Neurochir (Wien)*. 2021 Nov 16:1–5. doi: 10.1007/s00701-021-05038-0. Epub ahead of print. PMID: 34783899; PMCID: PMC8594320. <https://pubmed.ncbi.nlm.nih.gov/34783899/>
770. Finsterer J, Redzic Z. Symptomatic peduncular, cavernous bleeding following SARS-CoV-2 vaccination induced immune thrombocytopenia. *Brain Hemorrhages*. 2021 Dec;2(4):169-171. doi: 10.1016/j.hest.2021.09.001. Epub 2021 Sep 16. PMID: 34549178; PMCID: PMC8443534. <https://pubmed.ncbi.nlm.nih.gov/34549178/>.
771. Park HS, Byun Y, Byeon SH, et al. Retinal Hemorrhage after SARS-CoV-2 Vaccination. *J Clin Med*. 2021 Dec 5;10(23):5705. doi: 10.3390/jcm10235705. PMID: 34884407; PMCID: PMC8658415. <https://pubmed.ncbi.nlm.nih.gov/34884407/>
772. Lin CY, Huang LY, Wu KA, et al. Response to bilateral adrenal haemorrhage in the differential diagnosis of abdominal pain in vaccine-induced thrombosis with thrombocytopenia. *QJM*. 2022 Jan 9;114(12):910-911. doi: 10.1093/qjmed/hcab239. PMID: 34546343; PMCID: PMC8500008. <https://pubmed.ncbi.nlm.nih.gov/34546343/>
773. de Mélo Silva ML Jr, Lopes DP. Large hemorrhagic stroke after ChAdOx1 nCoV-19 vaccination: A case report. *Acta Neurol Scand*. 2021 Dec;144(6):717-718. doi: 10.1111/ane.13505. Epub 2021 Jul 17. PMID: 34273119; PMCID: PMC8444739. <https://pubmed.ncbi.nlm.nih.gov/34273119/>
774. Purkayastha P, Mckechnie C, Kalkur P, et al. Rare case of COVID-19 vaccine-associated intracranial haemorrhage with venous sinus thrombosis. *BMJ Case Rep*. 2021 Sep 23;14(9):e245092. doi: 10.1136/bcr-2021-245092. PMID: 34556531; PMCID: PMC8461674. <https://pubmed.ncbi.nlm.nih.gov/34556531/>.
775. Finsterer J. Lobar bleeding with ventricular rupture shortly after first dosage of an mRNA-based SARS-CoV-2 vaccine. *Brain Hemorrhages*. 2021 Oct 28. doi: 10.1016/j.hest.2021.10.001. Epub ahead of print. PMID: 34729467; PMCID: PMC8553377. <https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8553377/>
776. Bjørnstad-Tuveng TH, Rudjord A, Anker P. Fatal cerebral haemorrhage after COVID-19 vaccine. *Tidsskr Nor Laegeforen*. 2021 Apr 29;141. English, Norwegian. doi: 10.4045/tidsskr.21.0312. PMID: 33928772. <https://pubmed.ncbi.nlm.nih.gov/33928772/>
777. Finsterer J, Korn M. Aphasia seven days after second dose of an mRNA-based SARS-CoV-2 vaccine. *Brain Hemorrhages*. 2021 Dec;2(4):165-167. doi: 10.1016/j.hest.2021.06.001.

Epub 2021 Jun 24. PMID: 34192245; PMCID:
PMC8223021. <https://www.sciencedirect.com/science/article/pii/S2589238X21000292#f0005>

778. Simpson CR, Shi T, Vasileiou E, et al. First-dose ChAdOx1 and BNT162b2 COVID-19 vaccines and thrombocytopenic, thromboembolic and hemorrhagic events in Scotland. *Nat Med*. 2021 Jul;27(7):1290-1297. doi: 10.1038/s41591-021-01408-4. Epub 2021 Jun 9. PMID: 34108714; PMCID: PMC8282499. <https://www.nature.com/articles/s41591-021-01408-4>
779. Choi JK, Kim S, Kim SR, et al. Intracerebral Hemorrhage due to Thrombosis with Thrombocytopenia Syndrome after Vaccination against COVID-19: the First Fatal Case in Korea. *J Korean Med Sci*. 2021 Aug 9;36(31):e223. doi: 10.3346/jkms.2021.36.e223. PMID: 34402235; PMCID: PMC8352786. <https://pubmed.ncbi.nlm.nih.gov/34402235/>
780. Sánchez van Kammen M, Aguiar de Sousa D, Poli S, et al. Characteristics and Outcomes of Patients With Cerebral Venous Sinus Thrombosis in SARS-CoV-2 Vaccine-Induced Immune Thrombotic Thrombocytopenia. *JAMA Neurol*. 2021 Nov 1;78(11):1314-1323. doi: 10.1001/jamaneurol.2021.3619. PMID: 34581763; PMCID: PMC8479648. <https://jamanetwork.com/journals/jamaneurology/fullarticle/2784622>
781. Saleh A, Collins J. Case study of thrombosis and thrombocytopenia syndrome following administration of the AstraZeneca COVID-19 vaccine. *Aust J Gen Pract*. 2021 Nov 12;50. PMID: 34781321. <https://pubmed.ncbi.nlm.nih.gov/34781321/>
782. Long B, Bridwell R, Gottlieb M. Thrombosis with thrombocytopenia syndrome associated with COVID-19 vaccines. *Am J Emerg Med*. 2021 Nov;49:58-61. doi: 10.1016/j.ajem.2021.05.054. Epub 2021 May 25. PMID: 34062319; PMCID: PMC8143907. <https://pubmed.ncbi.nlm.nih.gov/34062319/>
783. Maramattom BV, Moidu FM, Varikkottil S, et al. Cerebral venous sinus thrombosis after ChAdOx1 vaccination: the first case of definite thrombosis with thrombocytopenia syndrome from India. *BMJ Case Rep*. 2021 Oct 27;14(10):e246455. doi: 10.1136/bcr-2021-246455. PMID: 34706921; PMCID: PMC8552183. <https://pubmed.ncbi.nlm.nih.gov/34706921/>
784. Hafeez MU, Ikram M, Shafiq Z, et al. COVID-19 Vaccine-Associated Thrombosis With Thrombocytopenia Syndrome (TTS): A Systematic Review and Post Hoc Analysis. *Clin Appl Thromb Hemost*. 2021 Jan-Dec;27:10760296211048815. doi: 10.1177/10760296211048815. PMID: 34698582; PMCID: PMC8552386. <https://pubmed.ncbi.nlm.nih.gov/34698582/>
785. Kemper M, Lenz G, Mesters RM. Successful Treatment of Vaccine-Induced Immune Thrombotic Thrombocytopenia in a 26-Year-Old Female Patient. *Acta Haematol*. 2021 Oct 6:1-4. doi: 10.1159/000519451. Epub ahead of print. PMID: 34614491; PMCID: PMC8678222. <https://pubmed.ncbi.nlm.nih.gov/34614491/>

786. Su PH, Yu YC, Chen WH, et al. Case Report: Vaccine-Induced Immune Thrombotic Thrombocytopenia in a Pancreatic Cancer Patient After Vaccination With Messenger RNA-1273. *Front Med (Lausanne)*. 2021 Nov 1;8:772424. doi: 10.3389/fmed.2021.772424. PMID: 34790684; PMCID: PMC8591100. <https://pubmed.ncbi.nlm.nih.gov/34790684/>
787. Lorente E. Idiopathic Ipsilateral External Jugular Vein Thrombophlebitis After Coronavirus Disease (COVID-19) Vaccination. *AJR Am J Roentgenol*. 2021 Sep;217(3):767. doi: 10.2214/AJR.21.25708. Epub 2021 Jul 22. PMID: 33624509. <https://pubmed.ncbi.nlm.nih.gov/33624509/>.
788. Mustafa Z, Burster T. Comments on Thrombosis After Vaccination: The Leader Sequence of the Spike Protein Might Be Responsible for Thrombosis and Antibody-Mediated Thrombocytopenia. *Viral Immunol*. 2021 Dec;34(10):669-672. doi: 10.1089/vim.2021.0118. Epub 2021 Nov 16. PMID: 34788138. <https://pubmed.ncbi.nlm.nih.gov/34788138>
789. Turi MC, Spitaleri F, Gori AM, et al. A case of vaccine-induced immune thrombotic thrombocytopenia with massive artero-venous thrombosis. *Blood Transfus*. 2021 Jul;19(4):343-346. doi: 10.2450/2021.0131-21. Epub 2021 May 21. PMID: 34059191; PMCID: PMC8297676. <https://pubmed.ncbi.nlm.nih.gov/34059191/>
790. Ramessur R, Saffar N, Czako B, et al. Cutaneous thrombosis associated with skin necrosis following Oxford-AstraZeneca COVID-19 vaccination. *Clin Exp Dermatol*. 2021 Dec;46(8):1610-1612. doi: 10.1111/ced.14819. Epub 2021 Jul 29. PMID: 34189756; PMCID: PMC8444634. <https://pubmed.ncbi.nlm.nih.gov/34189756/>
791. Blauenfeldt RA, Kristensen SR, Ernstsens SL, et al. Thrombocytopenia with acute ischemic stroke and bleeding in a patient newly vaccinated with an adenoviral vector-based COVID-19 vaccine. *J Thromb Haemost*. 2021 Jul;19(7):1771-1775. doi: 10.1111/jth.15347. Epub 2021 May 5. PMID: 33877737; PMCID: PMC8250306. <https://pubmed.ncbi.nlm.nih.gov/33877737/>
792. Huh K, Na Y, Kim YE, et al. Predicted and Observed Incidence of Thromboembolic Events among Koreans Vaccinated with ChAdOx1 nCoV-19 Vaccine. *J Korean Med Sci*. 2021 Jul 12;36(27):e197. doi: 10.3346/jkms.2021.36.e197. PMID: 34254476; PMCID: PMC8275463. <https://pubmed.ncbi.nlm.nih.gov/34254476/>
793. Simpson CR, Shi T, Vasileiou E, et al. First-dose ChAdOx1 and BNT162b2 COVID-19 vaccines and thrombocytopenic, thromboembolic and hemorrhagic events in Scotland. *Nat Med*. 2021 Jul;27(7):1290-1297. doi: 10.1038/s41591-021-01408-4. Epub 2021 Jun 9. PMID: 34108714; PMCID: PMC8282499. <https://pubmed.ncbi.nlm.nih.gov/34108714/>
794. Uaprasert N, Panrong K, Tungjitviboonkun S, et al. ChAdOx1 nCoV-19 vaccine-associated thrombocytopenia: three cases of immune thrombocytopenia after 107 720 doses of

- ChAdOx1 vaccination in Thailand. *Blood Coagul Fibrinolysis*. 2022 Jan 1;33(1):67-70. doi: 10.1097/MBC.0000000000001082. PMID: 34483267. <https://pubmed.ncbi.nlm.nih.gov/34483267/>.
795. Malik B, Kalantary A, Rikabi K, et al. Pulmonary embolism, transient ischaemic attack and thrombocytopenia after the Johnson & Johnson COVID-19 vaccine. *BMJ Case Rep*. 2021 Jul 14;14(7):e243975. doi: 10.1136/bcr-2021-243975. PMID: 34261635; PMCID: PMC8280905. <https://pubmed.ncbi.nlm.nih.gov/34261635/>
796. Gessler F, Schmitz AK, Dubinski D, et al. Neurosurgical Considerations Regarding Decompressive Craniectomy for Intracerebral Hemorrhage after SARS-CoV-2-Vaccination in Vaccine Induced Thrombotic Thrombocytopenia-VITT. *J Clin Med*. 2021 Jun 24;10(13):2777. doi: 10.3390/jcm10132777. PMID: 34202817; PMCID: PMC8269113. <https://pubmed.ncbi.nlm.nih.gov/34202817/>
797. de Mélo Silva ML Jr, Lopes DP. Large hemorrhagic stroke after ChAdOx1 nCoV-19 vaccination: A case report. *Acta Neurol Scand*. 2021 Dec;144(6):717-718. doi: 10.1111/ane.13505. Epub 2021 Jul 17. PMID: 34273119; PMCID: PMC8444739. <https://pubmed.ncbi.nlm.nih.gov/34273119/>
798. Bjørnstad-Tuveng TH, Rudjord A, Anker P. Fatal cerebral haemorrhage after COVID-19 vaccine. *Tidsskr Nor Laegeforen*. 2021 Apr 29;141. English, Norwegian. doi: 10.4045/tidsskr.21.0312. PMID: 33928772. <https://haematologica.org/article/view/haematol.2021.279075>
799. Okada Y, Sakai R, Sato-Fitoussi M, et al. Potential Triggers for Thrombocytopenia and/or Hemorrhage by the BNT162b2 Vaccine, Pfizer-BioNTech. *Front Med (Lausanne)*. 2021 Sep 30;8:751598. doi: 10.3389/fmed.2021.751598. PMID: 34660652; PMCID: PMC8514746. <https://pubmed.ncbi.nlm.nih.gov/34660652/>.
800. Wolthers SA, Stenberg J, Nielsen HB, et al. [Intracerebral haemorrhage twelve days after vaccination with ChAdOx1 nCoV-19]. *Ugeskr Laeger*. 2021 Aug 30;183(35):V05210425. Danish. PMID: 34477089. <https://pubmed.ncbi.nlm.nih.gov/34477089/>
801. Choi JK, Kim S, Kim SR, et al. Intracerebral Hemorrhage due to Thrombosis with Thrombocytopenia Syndrome after Vaccination against COVID-19: the First Fatal Case in Korea. *J Korean Med Sci*. 2021 Aug 9;36(31):e223. doi: 10.3346/jkms.2021.36.e223. PMID: 34402235; PMCID: PMC8352786. <https://pubmed.ncbi.nlm.nih.gov/34402235/>
802. Gessler F, Schmitz AK, Dubinski D, et al. Neurosurgical Considerations Regarding Decompressive Craniectomy for Intracerebral Hemorrhage after SARS-CoV-2-Vaccination in Vaccine Induced Thrombotic Thrombocytopenia-VITT. *J Clin Med*. 2021 Jun 24;10(13):2777. doi: 10.3390/jcm10132777. PMID: 34202817; PMCID: PMC8269113. <https://pubmed.ncbi.nlm.nih.gov/34202817/>

803. Mendes-de-Almeida DP, Martins-Gonçalves R, Morato-Santos R, et al. Intracerebral hemorrhage associated with vaccine-induced thrombotic thrombocytopenia following ChAdOx1 nCOVID-19 vaccine in a pregnant woman. *Haematologica*. 2021 Nov 1;106(11):3025-3028. doi: 10.3324/haematol.2021.279407. PMID: 34261297; PMCID: PMC8561298. <https://pubmed.ncbi.nlm.nih.gov/34261297/>

Hepatitis

804. Ghorbani H, Rouhi T, Vosough Z, Shokri-Shirvani J. Drug-induced hepatitis after Sinopharm COVID-19 vaccination: A case study of a 62-year-old patient. *Int J Surg Case Rep*. 2022 Apr;93:106926. doi: 10.1016/j.ijscr.2022.106926. Epub 2022 Mar 9. PMID: 35284210; PMCID: PMC8906165.
805. Zin Tun GS, Gleeson D, Al-Joudeh A, Dube A. Immune-mediated hepatitis with the Moderna vaccine, no longer a coincidence but confirmed. *J Hepatol*. 2021 Oct 5:S0168-8278(21)02093-6. doi: 10.1016/j.jhep.2021.09.031. Epub ahead of print. PMID: 34619252; PMCID: PMC8491984. <https://www.sciencedirect.com/science/article/pii/S0168827821020936>
806. Bril F, Al Diffalha S, Dean M, et al. Autoimmune hepatitis developing after coronavirus disease 2019 (COVID-19) vaccine: Causality or casualty? *J Hepatol*. 2021 Jul;75(1):222-224. doi: 10.1016/j.jhep.2021.04.003. Epub 2021 Apr 20. PMID: 33862041; PMCID: PMC8056822. <https://pubmed.ncbi.nlm.nih.gov/33862041/>
807. Vuille-Lessard É, Montani M, Bosch J, et al. Autoimmune hepatitis triggered by SARS-CoV-2 vaccination. *J Autoimmun*. 2021 Sep;123:102710. doi: 10.1016/j.jaut.2021.102710. Epub 2021 Jul 28. PMID: 34332438; PMCID: PMC8316013. <https://pubmed.ncbi.nlm.nih.gov/34332438/>
808. Ghielmetti M, Schaufelberger HD, Mieli-Vergani G, et al. Acute autoimmune-like hepatitis with atypical anti-mitochondrial antibody after mRNA COVID-19 vaccination: A novel clinical entity? *J Autoimmun*. 2021 Sep;123:102706. doi: 10.1016/j.jaut.2021.102706. Epub 2021 Jul 15. PMID: 34293683; PMCID: PMC8279947. <https://pubmed.ncbi.nlm.nih.gov/34293683/>.
809. Rela M, Jothimani D, Vij M, et al. Auto-immune hepatitis following COVID vaccination. *J Autoimmun*. 2021 Sep;123:102688. doi: 10.1016/j.jaut.2021.102688. Epub 2021 Jul 3. PMID: 34225251. <https://pubmed.ncbi.nlm.nih.gov/34225251/>
810. Clayton-Chubb D, Schneider D, Freeman E, et al. Autoimmune hepatitis developing after the ChAdOx1 nCoV-19 (Oxford-AstraZeneca) vaccine. *J Hepatol*. 2021 Nov;75(5):1249-1250. doi: 10.1016/j.jhep.2021.06.014. Epub 2021 Jun 22. PMID: 34171435; PMCID: PMC8219312. <https://pubmed.ncbi.nlm.nih.gov/34171435/>
811. Sugita K, Kaneko S, Hisada R, Harano M, Anno E, Hagiwara S, Imai E, Nagata M, Tsukamoto Y. Development of IgA vasculitis with severe glomerulonephritis after COVID-

- 19 vaccination: a case report and literature review. *CEN Case Rep.* 2022 Mar 11:1–6. doi: 10.1007/s13730-022-00695-1. Epub ahead of print. PMID: 35275366; PMCID: PMC8914443.
812. Watanabe S, Zheng S, Rashidi A. IgA nephropathy relapse following COVID-19 vaccination treated with corticosteroid therapy: case report. *BMC Nephrol.* 2022 Apr 7;23(1):135. doi: 10.1186/s12882-022-02769-9. PMID: 35392838; PMCID: PMC8988530.
813. Lensen R, Netea MG, Rosendaal FR. Hepatitis C Virus Reactivation Following COVID-19 Vaccination - A Case Report. *Int Med Case Rep J.* 2021 Aug 29;14:573-576. doi: 10.2147/IMCRJ.S328482. Erratum in: *Int Med Case Rep J.* 2021 Oct 27;14:741-742. PMID: 34512037; PMCID: PMC8412816. <https://pubmed.ncbi.nlm.nih.gov/34512037/>
814. Lodato F, Larocca A, D'Errico A, Cennamo V. An unusual case of acute cholestatic hepatitis after m-RNABNT162b2 (Comirnaty) SARS-CoV-2 vaccine: Coincidence, autoimmunity or drug-related liver injury. *J Hepatol.* 2021 Nov;75(5):1254-1256. doi: 10.1016/j.jhep.2021.07.005. Epub 2021 Jul 10. PMID: 34256064; PMCID: PMC8272621.
815. Rela M, Jothimani D, Vij M, Rajakumar A, Rammohan A. Auto-immune hepatitis following COVID vaccination. *J Autoimmun.* 2021 Sep;123:102688. doi: 10.1016/j.jaut.2021.102688. Epub 2021 Jul 3. PMID: 34225251.
816. Vuille-Lessard É, Montani M, Bosch J, Semmo N. Autoimmune hepatitis triggered by SARS-CoV-2 vaccination. *J Autoimmun.* 2021 Sep;123:102710. doi: 10.1016/j.jaut.2021.102710. Epub 2021 Jul 28. PMID: 34332438; PMCID: PMC8316013.
817. Camacho-Domínguez L, Rodríguez Y, Polo F, Restrepo Gutierrez JC, Zapata E, Rojas M, Anaya JM. COVID-19 vaccine and autoimmunity. A new case of autoimmune hepatitis and review of the literature. *J Transl Autoimmun.* 2022;5:100140. doi: 10.1016/j.jtauto.2022.100140. Epub 2022 Jan 4. PMID: 35013724; PMCID: PMC8730708.
818. Zhou T, Fronhoffs F, Dold L, Strassburg CP, Weismüller TJ. New-onset autoimmune hepatitis following mRNA COVID-19 vaccination in a 36-year-old woman with primary sclerosing cholangitis - should we be more vigilant? *J Hepatol.* 2022 Jan;76(1):218-220. doi: 10.1016/j.jhep.2021.08.006. Epub 2021 Aug 25. PMID: 34450237; PMCID: PMC8384483.
819. Mahalingham A, Duckworth A, Griffiths WJH. First report of post-transplant autoimmune hepatitis recurrence following SARS-CoV-2 mRNA vaccination. *Transpl Immunol.* 2022 Apr 4;72:101600. doi: 10.1016/j.trim.2022.101600. Epub ahead of print. PMID: 35390478; PMCID: PMC8977213.
820. Avci E, Abasiyanik F. Autoimmune hepatitis after SARS-CoV-2 vaccine: New-onset or flare-up? *J Autoimmun.* 2021 Dec;125:102745. doi: 10.1016/j.jaut.2021.102745. Epub 2021 Nov 11. PMID: 34781161; PMCID: PMC8580815.

821. Vuille-Lessard É, Montani M, Bosch J, Semmo N. Autoimmune hepatitis triggered by SARS-CoV-2 vaccination. *J Autoimmun.* 2021 Sep;123:102710. doi: 10.1016/j.jaut.2021.102710. Epub 2021 Jul 28. PMID: 34332438; PMCID: PMC8316013.
822. McShane C, Kiat C, Rigby J, Crosbie Ó. The mRNA COVID-19 vaccine - A rare trigger of autoimmune hepatitis? *J Hepatol.* 2021 Nov;75(5):1252-1254. doi: 10.1016/j.jhep.2021.06.044. Epub 2021 Jul 8. PMID: 34245804; PMCID: PMC8264276.

Immune and DNA Impacts

823. F. Konstantin Föhse, Büsranur Geckin, Gijs J. Overheul, et al. The BNT162b2 mRNA vaccine against SARS-CoV-2 reprograms both adaptive and innate immune responses. medRxiv 2021.05.03.21256520; doi: <https://doi.org/10.1101/2021.05.03.21256520>
824. Goldman S, Bron D, Tousseyn T. Rapid progression of angioimmunoblastic T-cell lymphoma after BNT162b2 mRNA booster vaccination. *Frontiers of Medicine.* 2021 Nov 25 <https://www.frontiersin.org/articles/10.3389/fmed.2021.798095/>
825. Chai Q, Nygaard U, Schmidt RC, et al. Multisystem inflammatory syndrome in a male adolescent after his second Pfizer-BioNTech COVID-19 vaccine. *Acta Paediatr.* 2022 Jan;111(1):125-127. doi: 10.1111/apa.16141. Epub 2021 Oct 28. PMID: 34617315; PMCID: PMC8653123. <https://www.ncbi.nlm.nih.gov/pubmed/34617315>
826. Jiang H, Mei YF. SARS-CoV-2 Spike Impairs DNA Damage Repair and Inhibits V(D)J Recombination In Vitro. *Viruses.* 2021 Oct 13;13(10):2056. doi: 10.3390/v13102056. PMID: 34696485; PMCID: PMC8538446. <https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8538446/>
827. Erard D, Villeret F, Lavrut PM, Dumortier J. Autoimmune hepatitis developing after COVID 19 vaccine: Presumed guilty? *Clin Res Hepatol Gastroenterol.* 2022 Mar;46(3):101841. doi: 10.1016/j.clinre.2021.101841. Epub 2021 Dec 15. PMID: 34920137; PMCID: PMC8673930.
828. Rela M, Jothimani D, Vij M, Rajakumar A, Rammohan A. Auto-immune hepatitis following COVID vaccination. *J Autoimmun.* 2021 Sep;123:102688. doi: 10.1016/j.jaut.2021.102688. Epub 2021 Jul 3. PMID: 34225251.
829. Londoño MC, Gratacós-Ginès J, Sáez-Peñataro J. Another case of autoimmune hepatitis after SARS-CoV-2 vaccination - still casualty? *J Hepatol.* 2021 Nov;75(5):1248-1249. doi: 10.1016/j.jhep.2021.06.004. Epub 2021 Jun 12. PMID: 34129886; PMCID: PMC8197609.

830. Plasse R, Nee R, Gao S, et al. Acute kidney injury with gross hematuria and IgA nephropathy after COVID-19 vaccination. *Kidney Int.* 2021 Oct;100(4):944-945. doi: 10.1016/j.kint.2021.07.020. Epub 2021 Aug 3. PMID: 34352309; PMCID: PMC8329426. <https://pubmed.ncbi.nlm.nih.gov/34352309/>
831. Nakazawa E, Uchimura T, Hirai Y, Togashi H, Oyama Y, Inaba A, Shiga K, Ito S. New-onset pediatric nephrotic syndrome following Pfizer-BioNTech SARS-CoV-2 vaccination: a case report and literature review. *CEN Case Rep.* 2021 Nov 15:1–5. doi: 10.1007/s13730-021-00656-0. Epub ahead of print. PMID: 34782983; PMCID: PMC8592073.
832. Liew SK, Nair B, So B, Ponnusamy A, Bow A, Woywodt A. Acute interstitial nephritis following SARS-CoV-2 virus vaccination. *Clin Nephrol.* 2022 Apr;97(4):242-245. doi: 10.5414/CN110753. PMID: 35113012.
833. Mira FS, Costa Carvalho J, de Almeida PA, Pimenta AC, Alen Coutinho I, Figueiredo C, Rodrigues L, Sousa V, Ferreira E, Pinto H, Escada L, Galvão A, Alves R. A Case of Acute Interstitial Nephritis After Two Doses of the BNT162b2 SARS-CoV-2 Vaccine. *Int J Nephrol Renovasc Dis.* 2021 Dec 3;14:421-426. doi: 10.2147/IJNRD.S345898. PMID: 34887676; PMCID: PMC8650829.
834. Fenoglio R, Lalloni S, Marchisio M, Oddone V, De Simone E, Del Vecchio G, Sciascia S, Roccatello D. New Onset Biopsy-Proven Nephropathies after COVID Vaccination. *Am J Nephrol.* 2022 Mar 30:1-6. doi: 10.1159/000523962. Epub ahead of print. PMID: 35354140.
835. Rahim SEG, Lin JT, Wang JC. A case of gross hematuria and IgA nephropathy flare-up following SARS-CoV-2 vaccination. *Kidney Int.* 2021 Jul;100(1):238. doi: 10.1016/j.kint.2021.04.024. Epub 2021 Apr 28. PMID: 33932458; PMCID: PMC8079938. <https://pubmed.ncbi.nlm.nih.gov/33932458>
836. Negrea L, Rovin BH. Gross hematuria following vaccination for severe acute respiratory syndrome coronavirus 2 in 2 patients with IgA nephropathy. *Kidney Int.* 2021 Jun;99(6):1487. doi: 10.1016/j.kint.2021.03.002. Epub 2021 Mar 24. PMID: 33771584; PMCID: PMC7987498. <https://pubmed.ncbi.nlm.nih.gov/33771584/>
837. D'Agati VD, Kudose S, Bomback AS, et al. Minimal change disease and acute kidney injury following the Pfizer-BioNTech COVID-19 vaccine. *Kidney Int.* 2021 Aug;100(2):461-463. doi: 10.1016/j.kint.2021.04.035. Epub 2021 May 15. PMID: 34000278; PMCID: PMC8123374. <https://pubmed.ncbi.nlm.nih.gov/34000278/>
838. Sekar A, Campbell R, Tabbara J, Rastogi P. ANCA glomerulonephritis after the Moderna COVID-19 vaccination. *Kidney Int.* 2021 Aug;100(2):473-474. doi: 10.1016/j.kint.2021.05.017. Epub 2021 May 31. PMID: 34081948; PMCID: PMC8166044. <https://pubmed.ncbi.nlm.nih.gov/34081948/>

839. Schaubsluger T, Rajora N, Diep S, Kirtek T, Cai Q, Hendricks AR, Shastri S, Zhou XJ, Saxena R. De novo or recurrent glomerulonephritis and acute tubulointerstitial nephritis after COVID-19 vaccination: A report of six cases from a single center. *Clin Nephrol.* 2022 Feb 10. doi: 10.5414/CN110794. Epub ahead of print. PMID: 35142282.
840. D'Agati VD, Kudose S, Bomback AS, et al. Minimal change disease and acute kidney injury following the Pfizer-BioNTech COVID-19 vaccine. *Kidney Int.* 2021 Aug;100(2):461-463. doi: 10.1016/j.kint.2021.04.035. Epub 2021 May 15. PMID: 34000278; PMCID: PMC8123374. <https://pubmed.ncbi.nlm.nih.gov/34000278/>
841. Lim JH, Han MH, Kim YJ, et al. New-onset Nephrotic Syndrome after Janssen COVID-19 Vaccination: a Case Report and Literature Review. *J Korean Med Sci.* 2021 Aug 2;36(30):e218. doi: 10.3346/jkms.2021.36.e218. PMID: 34342187; PMCID: PMC8329389. <https://pubmed.ncbi.nlm.nih.gov/34342187/>.
842. Sekar A, Campbell R, Tabbara J, et al. ANCA glomerulonephritis after the Moderna COVID-19 vaccination. *Kidney Int.* 2021 Aug;100(2):473-474. doi: 10.1016/j.kint.2021.05.017. Epub 2021 May 31. PMID: 34081948; PMCID: PMC8166044. <https://pubmed.ncbi.nlm.nih.gov/34081948/>
843. Leclerc S, Royal V, Lamarche C, Laurin LP. Minimal Change Disease With Severe Acute Kidney Injury Following the Oxford-AstraZeneca COVID-19 Vaccine: A Case Report. *Am J Kidney Dis.* 2021 Oct;78(4):607-610. doi: 10.1053/j.ajkd.2021.06.008. Epub 2021 Jul 7. PMID: 34242687; PMCID: PMC8260495. <https://pubmed.ncbi.nlm.nih.gov/34242687/>.
844. Anupama YJ, Patel RGN, Vankalakunti M. Nephrotic Syndrome Following ChAdOx1 nCoV-19 Vaccine Against SARS-CoV-2. *Kidney Int Rep.* 2021 Aug;6(8):2248. doi: 10.1016/j.ekir.2021.06.024. Epub 2021 Jul 6. PMID: 34250318; PMCID: PMC8257404. <https://pubmed.ncbi.nlm.nih.gov/34250318/>.
845. Youn T, Yang H. Cytotoxic Lesion of the Corpus Callosum (CLOCCs) after SARS-CoV-2 mRNA Vaccination. *J Korean Med Sci.* 2021 Aug 9;36(31):e228. doi: 10.3346/jkms.2021.36.e228. PMID: 34402238; PMCID: PMC8352783.
846. Lim JH, Kim MS, Kim YJ, Han MH, Jung HY, Choi JY, Cho JH, Kim CD, Kim YL, Park SH. New-Onset Kidney Diseases after COVID-19 Vaccination: A Case Series. *Vaccines (Basel).* 2022 Feb 16;10(2):302. doi: 10.3390/vaccines10020302. PMID: 35214760; PMCID: PMC8880359.
847. Yoon SY, Sung JY, Kim JS, Jeong KH, Hwang HS. Acute Kidney Injury With Endothelial Injury and Podocytopathy Following COVID-19 Vaccination. *Transplantation.* 2022 Apr 1;106(4):e236-e237. doi: 10.1097/TP.0000000000004061. PMID: 34999658; PMCID: PMC8942596.

848. Hanna J, Ingram A, Shao T. Minimal Change Disease After First Dose of Pfizer-BioNTech COVID-19 Vaccine: A Case Report and Review of Minimal Change Disease Related to COVID-19 Vaccine. *Can J Kidney Health Dis.* 2021 Nov 15;8:20543581211058271. doi: 10.1177/20543581211058271. PMID: 34804557; PMCID: PMC8600548.
849. Dheir H, Sipahi S, Cakar GC, Yaylaci S, Hacibekiroglu T, Karabay O. Acute tubulointerstitial nephritis after COVID-19 m-RNA BNT162b2 vaccine. *Eur Rev Med Pharmacol Sci.* 2021 Oct;25(20):6171-6173. doi: 10.26355/eurrev_202110_26985. PMID: 34730195.
850. De Fabritiis M, Angelini ML, Fabbriozio B, Cenacchi G, Americo C, Cristino S, Lifrieri MF, Cappuccilli M, Spazzoli A, Zambianchi L, Mosconi G. Renal Thrombotic Microangiopathy in Concurrent COVID-19 Vaccination and Infection. *Pathogens.* 2021 Aug 17;10(8):1045. doi: 10.3390/pathogens10081045. PMID: 34451509; PMCID: PMC8400339.
851. Lebedev L, Sapojnikov M, Wechsler A, Varadi-Levi R, Zamir D, Tobar A, Levin-Iaina N, Fytlovich S, Yagil Y. Minimal Change Disease Following the Pfizer-BioNTech COVID-19 Vaccine. *Am J Kidney Dis.* 2021 Jul;78(1):142-145. doi: 10.1053/j.ajkd.2021.03.010. Epub 2021 Apr 8. PMID: 33839200; PMCID: PMC8028833.
852. Pisani D, Leopardi G, Viola P, Scarpa A, Ricciardiello F, Cerchiali N, Astorina A, Chiarella G. Sudden sensorineural hearing loss after covid-19 vaccine; A possible adverse reaction? *Otolaryngol Case Rep.* 2021 Nov;21:100384. doi: 10.1016/j.xocr.2021.100384. Epub 2021 Nov 30. PMID: 34957365; PMCID: PMC8629793.

Lung Diseases

853. Miqdadi A, Herrag M. Acute Eosinophilic Pneumonia Associated With the Anti-COVID-19 Vaccine AZD1222. *Cureus.* 2021 Oct 21;13(10):e18959. doi: 10.7759/cureus.18959. PMID: 34812326; PMCID: PMC8604432. <https://pubmed.ncbi.nlm.nih.gov/34812326/>.
854. DeDent AM, Farrand E. Vaccine-induced interstitial lung disease: a rare reaction to COVID-19 vaccination. *Thorax.* 2022 Jan;77(1):9-10. doi: 10.1136/thoraxjnl-2021-217985. Epub 2021 Sep 11. PMID: 34510014. <https://pubmed.ncbi.nlm.nih.gov/34510014/>.
855. Amiya S, Fujimoto J, Matsumoto K, Yamamoto M, Yamamoto Y, Yoneda M, Kuge T, Miyake K, Shiroyama T, Hirata H, Takeda Y, Kumanogoh A. Case report: Acute exacerbation of interstitial pneumonia related to messenger RNA COVID-19 vaccination. *Int J Infect Dis.* 2022 Mar;116:255-257. doi: 10.1016/j.ijid.2022.01.031. Epub 2022 Jan 19. PMID: 35065256; PMCID: PMC8769663. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8769663/>

856. Singh B, Kaur P, Kumar V, et al. COVID-19 vaccine induced Axillary and Pectoral Lymphadenopathy on PET scan. *Radiol Case Rep.* 2021 Jul;16(7):1819-1821. doi: 10.1016/j.radcr.2021.04.053. Epub 2021 Apr 30. PMID: 33968285; PMCID: PMC8084621. <https://www.sciencedirect.com/science/article/pii/S1930043321002612>
857. Plaza MJ, Wright J, Fernandez S. COVID-19 vaccine-related unilateral axillary lymphadenopathy: Pattern on screening breast MRI allowing for a benign assessment. *Clin Imaging.* 2021 Dec;80:139-141. doi: 10.1016/j.clinimag.2021.07.011. Epub 2021 Jul 24. PMID: 34325221; PMCID: PMC8302478. <https://pubmed.ncbi.nlm.nih.gov/34325221/>
858. Ashoor A, Shephard J, Lissidini G, et al. Axillary Adenopathy in Patients with Recent Covid-19 Vaccination: A New Diagnostic Dilemma. *Korean J Radiol.* 2021 Dec;22(12):2124-2126. doi: 10.3348/kjr.2021.0635. PMID: 34825530; PMCID: PMC8628154. <https://pubmed.ncbi.nlm.nih.gov/34825530/>.
859. Park JY, Yi SY. Rare case of contralateral supraclavicular lymphadenopathy after COVID-19 vaccination: Computed tomography and ultrasonography findings. *Radiol Case Rep.* 2021 Dec;16(12):3879-3881. doi: 10.1016/j.radcr.2021.09.042. Epub 2021 Oct 14. PMID: 34667486; PMCID: PMC8516346. <https://pubmed.ncbi.nlm.nih.gov/34667486/>
860. Igual-Rouilleault AC, Soriano I, Quan PL, et al. Unilateral axillary adenopathy induced by COVID-19 vaccine: US follow-up evaluation. *Eur Radiol.* 2021 Oct 16:1–8. doi: 10.1007/s00330-021-08309-7. Epub ahead of print. PMID: 34655312; PMCID: PMC8520081. <https://pubmed.ncbi.nlm.nih.gov/34655312/>.
861. Fernández-Prada M, Rivero-Calle I, Calvache-González A, et al. Acute onset supraclavicular lymphadenopathy coinciding with intramuscular mRNA vaccination against COVID-19 may be related to vaccine injection technique, Spain, January and February 2021. *Euro Surveill.* 2021 Mar;26(10):2100193. doi: 10.2807/1560-7917.ES.2021.26.10.2100193. PMID: 33706861; PMCID: PMC7953532. <https://pubmed.ncbi.nlm.nih.gov/33706861/>
862. Kim B, Park Y, Kim EK, et al. Supraclavicular lymphadenopathy after COVID-19 vaccination in Korea: serial follow-up using ultrasonography. *Clin Imaging.* 2021 Nov;79:201-203. doi: 10.1016/j.clinimag.2021.05.031. Epub 2021 Jun 5. PMID: 34116295; PMCID: PMC8178535. <https://pubmed.ncbi.nlm.nih.gov/34116295/>
863. Lehman CD, D'Alessandro HA, Mendoza DP, et al. Unilateral Lymphadenopathy After COVID-19 Vaccination: A Practical Management Plan for Radiologists Across Specialties. *J Am Coll Radiol.* 2021 Jun;18(6):843-852. doi: 10.1016/j.jacr.2021.03.001. Epub 2021 Mar 4. PMID: 33713605; PMCID: PMC7931722. <https://pubmed.ncbi.nlm.nih.gov/33713605/>
864. Mehta N, Sales RM, Babagbemi K, et al. Unilateral axillary adenopathy in the setting of COVID-19 vaccine: Follow-up. *Clin Imaging.* 2021 Dec;80:83-87. doi: 10.1016/j.clinimag.2021.06.037. Epub 2021 Jul 9. PMID: 34298342; PMCID: PMC8268700. <https://pubmed.ncbi.nlm.nih.gov/34298342/>

865. Mitchell OR, Dave R, Bekker J, et al. Supraclavicular lymphadenopathy following COVID-19 vaccination: an increasing presentation to the two-week wait neck lump clinic? *Br J Oral Maxillofac Surg.* 2021 Apr;59(3):384-385. doi: 10.1016/j.bjoms.2021.02.002. Epub 2021 Feb 15. PMID: 33685772; PMCID: PMC7883701. <https://pubmed.ncbi.nlm.nih.gov/33685772/>
866. Lane DL, Neelapu SS, Xu G, et al. COVID-19 Vaccine-Related Axillary and Cervical Lymphadenopathy in Patients with Current or Prior Breast Cancer and Other Malignancies: Cross-Sectional Imaging Findings on MRI, CT, and PET-CT. *Korean J Radiol.* 2021 Dec;22(12):1938-1945. doi: 10.3348/kjr.2021.0350. Epub 2021 Oct 26. PMID: 34719892; PMCID: PMC8628159. <https://pubmed.ncbi.nlm.nih.gov/34719892/>
867. Washington T, Bryan R, Clemow C. Adenopathy Following COVID-19 Vaccination. *Radiology.* 2021 Jun;299(3):E280-E281. doi: 10.1148/radiol.2021210236. Epub 2021 Feb 24. PMID: 33625299; PMCID: PMC7909073. <https://pubmed.ncbi.nlm.nih.gov/33625299/>.
868. Robinson KA, Maimone S, Gococo-Benore DA, et al. Incidence of Axillary Adenopathy in Breast Imaging After COVID-19 Vaccination. *JAMA Oncol.* 2021 Sep 1;7(9):1395-1397. doi: 10.1001/jamaoncol.2021.3127. PMID: 34292295; PMCID: PMC8299355. <https://pubmed.ncbi.nlm.nih.gov/34292295/>.
869. Mitchell OR, Couzins M, Dave R, et al. COVID-19 vaccination and low cervical lymphadenopathy in the two week neck lump clinic - a follow up audit. *Br J Oral Maxillofac Surg.* 2021 Jul;59(6):720-721. doi: 10.1016/j.bjoms.2021.04.008. Epub 2021 Apr 21. PMID: 33947605; PMCID: PMC8057932. <https://pubmed.ncbi.nlm.nih.gov/33947605/>.
870. Abou-Foul AK, Ross E, Abou-Foul M, et al. Cervical lymphadenopathy following coronavirus disease 2019 vaccine: clinical characteristics and implications for head and neck cancer services. *J Laryngol Otol.* 2021 Nov;135(11):1025-1030. doi: 10.1017/S0022215121002462. Epub 2021 Sep 16. PMID: 34526175; PMCID: PMC8476898. <https://pubmed.ncbi.nlm.nih.gov/34526175/>
871. Hiller N, Goldberg SN, Cohen-Cyberknoh M, et al. Lymphadenopathy Associated With the COVID-19 Vaccine. *Cureus.* 2021 Feb 23;13(2):e13524. doi: 10.7759/cureus.13524. PMID: 33786231; PMCID: PMC7994368. <https://pubmed.ncbi.nlm.nih.gov/33786231/>
872. Hanneman K, Iwanochko RM, Thavendiranathan P. Evolution of Lymphadenopathy at PET/MRI after COVID-19 Vaccination. *Radiology.* 2021 Jun;299(3):E282. doi: 10.1148/radiol.2021210386. Epub 2021 Feb 24. Erratum in: *Radiology.* 2021 Aug;300(2):E338. PMID: 33625301; PMCID: PMC7909070. <https://pubmed.ncbi.nlm.nih.gov/33625301/>.
873. Xu G, Lu Y. COVID-19 mRNA Vaccination-Induced Lymphadenopathy Mimics Lymphoma Progression on FDG PET/CT. *Clin Nucl Med.* 2021 Apr 1;46(4):353-354. doi:

- 10.1097/RLU.00000000000003597. PMID:
33591026. <https://pubmed.ncbi.nlm.nih.gov/33591026/>
874. Özütemiz C, Krystosek LA, Church AL, et al. Lymphadenopathy in COVID-19 Vaccine Recipients: Diagnostic Dilemma in Oncologic Patients. *Radiology*. 2021 Jul;300(1):E296-E300. doi: 10.1148/radiol.2021210275. Epub 2021 Feb 24. PMID: 33625300; PMCID: PMC7909072. <https://pubmed.ncbi.nlm.nih.gov/33625300/>
875. Cohen D, Krauthammer SH, Wolf I, et al. Hypermetabolic lymphadenopathy following administration of BNT162b2 mRNA Covid-19 vaccine: incidence assessed by [18F]FDG PET-CT and relevance to study interpretation. *Eur J Nucl Med Mol Imaging*. 2021 Jun;48(6):1854-1863. doi: 10.1007/s00259-021-05314-2. Epub 2021 Mar 27. PMID: 33774684; PMCID: PMC8003894. <https://pubmed.ncbi.nlm.nih.gov/33774684/>
876. Keshavarz P, Yazdanpanah F, Rafiee F, et al. Lymphadenopathy Following COVID-19 Vaccination: Imaging Findings Review. *Acad Radiol*. 2021 Aug;28(8):1058-1071. doi: 10.1016/j.acra.2021.04.007. Epub 2021 May 1. PMID: 33985872; PMCID: PMC8088218. <https://pubmed.ncbi.nlm.nih.gov/33985872/>
877. Weeks JK, O'Brien SR, Rosenspire KC, et al. Evolving Bilateral Hypermetabolic Axillary Lymphadenopathy on FDG PET/CT Following 2-Dose COVID-19 Vaccination. *Clin Nucl Med*. 2021 Dec 1;46(12):1011-1012. doi: 10.1097/RLU.00000000000003711. PMID: 34735411; PMCID: PMC8575109. <https://pubmed.ncbi.nlm.nih.gov/34735411/>
878. Shin M, Hyun CY, Choi YH, et al. COVID-19 Vaccination-Associated Lymphadenopathy on FDG PET/CT: Distinctive Features in Adenovirus-Vectored Vaccine. *Clin Nucl Med*. 2021 Oct 1;46(10):814-819. doi: 10.1097/RLU.00000000000003800. PMID: 34115709; PMCID: PMC8411598. <https://pubmed.ncbi.nlm.nih.gov/34115709/>
879. Lim J, Lee SA, Khil EK, et al. COVID-19 vaccine-related axillary lymphadenopathy in breast cancer patients: Case series with a review of literature. *Semin Oncol*. 2021 Aug-Dec;48(4-6):283-291. doi: 10.1053/j.seminoncol.2021.10.002. Epub 2021 Oct 26. PMID: 34836672; PMCID: PMC8547943. <https://pubmed.ncbi.nlm.nih.gov/34836672/>
880. Placke JM, Reis H, Hadaschik E, et al. Coronavirus disease 2019 vaccine mimics lymph node metastases in patients undergoing skin cancer follow-up: A monocentre study. *Eur J Cancer*. 2021 Sep;154:167-174. doi: 10.1016/j.ejca.2021.06.023. Epub 2021 Jun 26. PMID: 34280870; PMCID: PMC8233908. <https://pubmed.ncbi.nlm.nih.gov/34280870/>
881. Tan NJH, Tay KXJ, Wong SBJ, et al. COVID-19 post-vaccination lymphadenopathy: Report of cytological findings from fine needle aspiration biopsy. *Diagn Cytopathol*. 2021 Dec;49(12):E467-E470. doi: 10.1002/dc.24863. Epub 2021 Aug 25. PMID: 34432391; PMCID: PMC8652983. <https://pubmed.ncbi.nlm.nih.gov/34432391/>
882. Garreffa E, Hamad A, O'Sullivan CC, et al. Regional lymphadenopathy following COVID-19 vaccination: Literature review and considerations for patient management in breast

- cancer care. *Eur J Cancer*. 2021 Dec;159:38-51. doi: 10.1016/j.ejca.2021.09.033. Epub 2021 Oct 11. PMID: 34731748; PMCID: PMC8502686. <https://pubmed.ncbi.nlm.nih.gov/34731748/>
883. Raj S, Ogola G, Han J. COVID-19 Vaccine-Associated Subclinical Axillary Lymphadenopathy on Screening Mammogram. *Acad Radiol*. 2021 Nov 17:S1076-6332(21)00538-9. doi: 10.1016/j.acra.2021.11.010. Epub ahead of print. PMID: 34906409; PMCID: PMC8595349. <https://pubmed.ncbi.nlm.nih.gov/34906409/>
884. Fernández-Prada M, Rivero-Calle I, Calvache-González A, et al. Acute onset supraclavicular lymphadenopathy coinciding with intramuscular mRNA vaccination against COVID-19 may be related to vaccine injection technique, Spain, January and February 2021. *Euro Surveill*. 2021 Mar;26(10):2100193. doi: 10.2807/1560-7917.ES.2021.26.10.2100193. PMID: 33706861; PMCID: PMC7953532. <https://pubmed.ncbi.nlm.nih.gov/33706861/>
885. Kim B, Park Y, Kim EK, Lee SH. Supraclavicular lymphadenopathy after COVID-19 vaccination in Korea: serial follow-up using ultrasonography. *Clin Imaging*. 2021 Nov;79:201-203. doi: 10.1016/j.clinimag.2021.05.031. Epub 2021 Jun 5. PMID: 34116295; PMCID: PMC8178535. <https://pubmed.ncbi.nlm.nih.gov/34116295/>
886. Nawwar AA, Searle J, Singh R, et al. Oxford-AstraZeneca COVID-19 vaccination induced lymphadenopathy on [18F]Choline PET/CT-not only an FDG finding. *Eur J Nucl Med Mol Imaging*. 2021 Jul;48(8):2657-2658. doi: 10.1007/s00259-021-05279-2. Epub 2021 Mar 4. PMID: 33661328; PMCID: PMC7930521. <https://pubmed.ncbi.nlm.nih.gov/33661328/>
887. Ganga K, Solyar AY, Ganga R. Massive Cervical Lymphadenopathy Post-COVID-19 Vaccination. *Ear Nose Throat J*. 2021 Oct 2:1455613211048984. doi: 10.1177/01455613211048984. Epub ahead of print. PMID: 34601889. <https://pubmed.ncbi.nlm.nih.gov/34601889/>
888. Mitchell OR, Dave R, Bekker J, Brennan PA. Supraclavicular lymphadenopathy following COVID-19 vaccination: an increasing presentation to the two-week wait neck lump clinic? *Br J Oral Maxillofac Surg*. 2021 Apr;59(3):384-385. doi: 10.1016/j.bjoms.2021.02.002. Epub 2021 Feb 15. PMID: 33685772; PMCID: PMC7883701. <https://pubmed.ncbi.nlm.nih.gov/33685772/>
889. Lane DL, Neelapu SS, Xu G, Weaver O. COVID-19 Vaccine-Related Axillary and Cervical Lymphadenopathy in Patients with Current or Prior Breast Cancer and Other Malignancies: Cross-Sectional Imaging Findings on MRI, CT, and PET-CT. *Korean J Radiol*. 2021 Dec;22(12):1938-1945. doi: 10.3348/kjr.2021.0350. Epub 2021 Oct 26. PMID: 34719892; PMCID: PMC8628159. <https://pubmed.ncbi.nlm.nih.gov/34719892/>
890. Washington T, Bryan R, Clemow C. Adenopathy Following COVID-19 Vaccination. *Radiology*. 2021 Jun;299(3):E280-E281. doi: 10.1148/radiol.2021210236. Epub 2021 Feb 24. PMID: 33625299; PMCID: PMC7909073. <https://pubmed.ncbi.nlm.nih.gov/33625299/>

891. Robinson KA, Maimone S, Gococo-Benore DA, et al. Incidence of Axillary Adenopathy in Breast Imaging After COVID-19 Vaccination. *JAMA Oncol.* 2021 Sep 1;7(9):1395-1397. doi: 10.1001/jamaoncol.2021.3127. PMID: 34292295; PMCID: PMC8299355. <https://pubmed.ncbi.nlm.nih.gov/34292295/>.
892. Mitchell OR, Couzins M, Dave R, et al. COVID-19 vaccination and low cervical lymphadenopathy in the two week neck lump clinic - a follow up audit. *Br J Oral Maxillofac Surg.* 2021 Jul;59(6):720-721. doi: 10.1016/j.bjoms.2021.04.008. Epub 2021 Apr 21. PMID: 33947605; PMCID: PMC8057932. <https://pubmed.ncbi.nlm.nih.gov/33947605/>.
893. Abou-Foul AK, Ross E, Abou-Foul M, et al. Cervical lymphadenopathy following coronavirus disease 2019 vaccine: clinical characteristics and implications for head and neck cancer services. *J Laryngol Otol.* 2021 Nov;135(11):1025-1030. doi: 10.1017/S0022215121002462. Epub 2021 Sep 16. PMID: 34526175; PMCID: PMC8476898. <https://pubmed.ncbi.nlm.nih.gov/34526175/>
894. Hiller N, Goldberg SN, Cohen-Cyberknoh M, et al. Lymphadenopathy Associated With the COVID-19 Vaccine. *Cureus.* 2021 Feb 23;13(2):e13524. doi: 10.7759/cureus.13524. PMID: 33786231; PMCID: PMC7994368. <https://pubmed.ncbi.nlm.nih.gov/33786231/>
895. Hanneman K, Iwanochko RM, Thavendiranathan P. Evolution of Lymphadenopathy at PET/MRI after COVID-19 Vaccination. *Radiology.* 2021 Jun;299(3):E282. doi: 10.1148/radiol.2021210386. Epub 2021 Feb 24. Erratum in: *Radiology.* 2021 Aug;300(2):E338. PMID: 33625301; PMCID: PMC7909070. <https://pubmed.ncbi.nlm.nih.gov/33625301/>.
896. Igual-Rouilleault AC, Soriano I, Quan PL, et al. Unilateral axillary adenopathy induced by COVID-19 vaccine: US follow-up evaluation. *Eur Radiol.* 2021 Oct 16:1–8. doi: 10.1007/s00330-021-08309-7. Epub ahead of print. PMID: 34655312; PMCID: PMC8520081. <https://pubmed.ncbi.nlm.nih.gov/34655312/>.
897. Plaza MJ, Wright J, Fernandez S. COVID-19 vaccine-related unilateral axillary lymphadenopathy: Pattern on screening breast MRI allowing for a benign assessment. *Clin Imaging.* 2021 Dec;80:139-141. doi: 10.1016/j.clinimag.2021.07.011. Epub 2021 Jul 24. PMID: 34325221; PMCID: PMC8302478. <https://pubmed.ncbi.nlm.nih.gov/34325221/>
898. Ashoor A, Shephard J, Lissidini G, et al. Axillary Adenopathy in Patients with Recent Covid-19 Vaccination: A New Diagnostic Dilemma. *Korean J Radiol.* 2021 Dec;22(12):2124-2126. doi: 10.3348/kjr.2021.0635. PMID: 34825530; PMCID: PMC8628154. <https://pubmed.ncbi.nlm.nih.gov/34825530/>.
899. Ganga K, Solyar AY, Ganga R. Massive Cervical Lymphadenopathy Post-COVID-19 Vaccination. *Ear Nose Throat J.* 2021 Oct 2:1455613211048984. doi: 10.1177/01455613211048984. Epub ahead of print. PMID: 34601889. <https://pubmed.ncbi.nlm.nih.gov/34601889/>

900. Lehman CD, D'Alessandro HA, Mendoza DP, et al. Unilateral Lymphadenopathy After COVID-19 Vaccination: A Practical Management Plan for Radiologists Across Specialties. *J Am Coll Radiol*. 2021 Jun;18(6):843-852. doi: 10.1016/j.jacr.2021.03.001. Epub 2021 Mar 4. PMID: 33713605; PMCID: PMC7931722. <https://pubmed.ncbi.nlm.nih.gov/33713605/>
901. Nawwar AA, Searle J, Singh R, et al. Oxford-AstraZeneca COVID-19 vaccination induced lymphadenopathy on [18F]Choline PET/CT-not only an FDG finding. *Eur J Nucl Med Mol Imaging*. 2021 Jul;48(8):2657-2658. doi: 10.1007/s00259-021-05279-2. Epub 2021 Mar 4. PMID: 33661328; PMCID: PMC7930521. <https://pubmed.ncbi.nlm.nih.gov/33661328/>
902. Mortazavi S. COVID-19 Vaccination-Associated Axillary Adenopathy: Imaging Findings and Follow-Up Recommendations in 23 Women. *AJR Am J Roentgenol*. 2021 Oct;217(4):857-858. doi: 10.2214/AJR.21.25651. Epub 2021 Feb 24. PMID: 33624520. <https://pubmed.ncbi.nlm.nih.gov/33624520/>
903. Cardoso F, Reis A, Osório C, et al. A Case of Cervical Lymphadenopathy After Vaccination Against COVID-19. *Cureus*. 2021 May 16;13(5):e15050. doi: 10.7759/cureus.15050. PMID: 34141500; PMCID: PMC8204135. <https://pubmed.ncbi.nlm.nih.gov/34141500/>
904. Cardoso F, Reis A, Osório C, et al. A Case of Cervical Lymphadenopathy After Vaccination Against COVID-19. *Cureus*. 2021 May 16;13(5):e15050. doi: 10.7759/cureus.15050. PMID: 34141500; PMCID: PMC8204135. <https://pubmed.ncbi.nlm.nih.gov/34141500/>
905. Kim B, Park Y, Kim EK, et al. Supraclavicular lymphadenopathy after COVID-19 vaccination in Korea: serial follow-up using ultrasonography. *Clin Imaging*. 2021 Nov;79:201-203. doi: 10.1016/j.clinimag.2021.05.031. Epub 2021 Jun 5. PMID: 34116295; PMCID: PMC8178535. <https://pubmed.ncbi.nlm.nih.gov/34116295/>.
906. Hagen C, Nowack M, Messerli M, Saro F, Mangold F, Bode PK. Fine needle aspiration in COVID-19 vaccine-associated lymphadenopathy. *Swiss Med Wkly*. 2021 Jul 20;151:w20557. doi: 10.4414/smw.2021.20557. PMID: 34286849. <https://pubmed.ncbi.nlm.nih.gov/34286849/>
907. Edmonds CE, Zuckerman SP, Conant EF. Management of Unilateral Axillary Lymphadenopathy Detected on Breast MRI in the Era of COVID-19 Vaccination. *AJR Am J Roentgenol*. 2021 Oct;217(4):831-834. doi: 10.2214/AJR.21.25604. Epub 2021 Feb 5. PMID: 33543649. <https://pubmed.ncbi.nlm.nih.gov/33543649/>
908. Gullotti DM, Lipson EJ, Fishman EK, Rowe SP. Acute axillary lymphadenopathy detected shortly after COVID-19 vaccination found to be due to newly diagnosed metastatic melanoma. *Radiol Case Rep*. 2022 Mar;17(3):878-880. doi: 10.1016/j.radcr.2021.12.002. Epub 2022 Jan 10. PMID: 35035652; PMCID: PMC8747434. <https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8747434/>
909. Tan HM, Hue SS, Wee A, See KC. Kikuchi-Fujimoto Disease Post COVID-19 Vaccination: Case Report and Review of Literature. *Vaccines (Basel)*. 2021 Oct 29;9(11):1251. doi:

10.3390/vaccines9111251. PMID: 34835182; PMCID: PMC8624158.
<https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8624158/>

910. Granata V, Fusco R, Vallone P, et al. Not only lymphadenopathy: case of chest lymphangitis assessed with MRI after COVID 19 vaccine. *Infect Agent Cancer*. 2022 Mar 17;17(1):8. doi: 10.1186/s13027-022-00419-1. PMID: 35300727.
<https://pubmed.ncbi.nlm.nih.gov/35300727/>
911. Musaddaq B, Brown A, Dluzewski S, Marafioti T, Malhotra A. Axillary lymphadenopathy in a high-risk breast screening patient following the COVID-19 vaccine: a diagnostic conundrum. *BJR Case Rep*. 2022 Mar 9;7(6):20210063. doi: 10.1259/bjrcr.20210063. PMID: 35300233; PMCID: PMC8906153. <https://pubmed.ncbi.nlm.nih.gov/35300233/>
912. HI C, Gj W, Jw L, J S, Lp M, Ht LP. Ultrasound Features to Differentiate COVID-19 Vaccine-Induced Benign Adenopathy from Breast Cancer Related Malignant Adenopathy. *Acad Radiol*. 2022 Feb 21:S1076-6332(22)00125-8. doi: 10.1016/j.acra.2022.02.015. Epub ahead of print. PMID: 35296413; PMCID: PMC8858693.
<https://pubmed.ncbi.nlm.nih.gov/35296413/>
913. Tsumura Y, Asakura K, Takahashi I, Akaihata M, Takahashi Y, Ishida Y. New mimic of relapse or regional lymph node metastasis in a cancer survivor: a case of mRNA COVID-19 vaccine-induced lymphadenitis with high FDG uptake. *Immunol Med*. 2022 Mar;45(1):45-47. doi: 10.1080/25785826.2021.1999786. Epub 2021 Dec 16. PMID: 34915816.
914. Landete E, Gómez-Fernández I, González-Gascón-Y-Marín I, Durán-Barquero C, Churruca J, Infante MS, Muñoz-Novas C, Foncillas MÁ, Marín K, Ramos-de-Ascanio V, Alonso-Farto JC, Hernández-Rivas JÁ. Hypermetabolic abdominal and cervical lymph nodes mimicking Hodgkin lymphoma relapse on FDG PET/CT after adenovirus-vectored COVID-19 vaccine. *Hum Vaccin Immunother*. 2021 Dec 2;17(12):5129-5132. doi: 10.1080/21645515.2021.2008215. Epub 2021 Dec 17. PMID: 34920695; PMCID: PMC8903903.
915. Albano D, Volpi G, Dondi F, Giubbini R, Bertagna F. COVID-19 Vaccination Manifesting as Unilateral Lymphadenopathies Detected by 18F-Choline PET/CT. *Clin Nucl Med*. 2022 Feb 1;47(2):e187-e189. doi: 10.1097/RLU.0000000000003951. PMID: 34593692; PMCID: PMC8745941.

Multiple Sclerosis

916. Tagliaferri AR, Horani G, Stephens K, Michael P. A rare presentation of undiagnosed multiple sclerosis after the COVID-19 vaccine. *J Community Hosp Intern Med Perspect*. 2021 Nov 15;11(6):772-775. doi: 10.1080/20009666.2021.1979745. PMID: 34804388; PMCID: PMC8604537.

Muscle Disorders

917. Maramattom BV, Philips G, Thomas J, et al. Inflammatory myositis after ChAdOx1 vaccination. *Lancet Rheumatol*. 2021 Nov;3(11):e747-e749. doi: 10.1016/S2665-9913(21)00312-X. Epub 2021 Sep 23. PMID: 34585145; PMCID: PMC8460178. <https://pubmed.ncbi.nlm.nih.gov/34585145/>
918. Hyun H, Song JY, Seong H, et al. Polyarthralgia and Myalgia Syndrome after ChAdOx1 nCoV-19 Vaccination. *J Korean Med Sci*. 2021 Aug 30;36(34):e245. doi: 10.3346/jkms.2021.36.e245. PMID: 34463066; PMCID: PMC8405407. <https://pubmed.ncbi.nlm.nih.gov/34463066/>
919. Hyun H, Song JY, Seong H, et al. Polyarthralgia and Myalgia Syndrome after ChAdOx1 nCoV-19 Vaccination. *J Korean Med Sci*. 2021 Aug 30;36(34):e245. doi: 10.3346/jkms.2021.36.e245. PMID: 34463066; PMCID: PMC8405407. <https://pubmed.ncbi.nlm.nih.gov/34463066/>
920. Chen J, Cai Y, Chen Y, et al. Nervous and Muscular Adverse Events after COVID-19 Vaccination: A Systematic Review and Meta-Analysis of Clinical Trials. *Vaccines (Basel)*. 2021 Aug 23;9(8):939. doi: 10.3390/vaccines9080939. PMID: 34452064; PMCID: PMC8402736. <https://pubmed.ncbi.nlm.nih.gov/34452064/>.
921. Kim JH, Kim JH, Woo CG. Clinicopathological Characteristics of Inflammatory Myositis Induced by COVID-19 Vaccine (Pfizer-BioNTech BNT162b2): A Case Report. *J Korean Med Sci*. 2022 Mar 21;37(11):e91. doi: 10.3346/jkms.2022.37.e91. PMID: 35315602; PMCID: PMC8938612.

Prion Disease

922. Classen JB. COVID-19 RNA-based vaccines and the risk of prion disease. *Veritas Hub* January 18th, 2021. <https://proyectorveritas.net/covid-19-rna-based-vaccines-and-the-risk-of-prion-disease/>

Radiation Recall Syndrome

923. Shinada K, Murakami S, Yoshida D, Saito H. Radiation recall pneumonitis after COVID-19 vaccination. *Thorac Cancer*. 2022 Jan;13(1):144-145. doi: 10.1111/1759-7714.14239. Epub 2021 Nov 17. PMID: 34791816; PMCID: PMC8652508.
924. McKay MJ, Foster R. Radiation recall reactions: An oncologic enigma. *Crit Rev Oncol Hematol*. 2021 Dec;168:103527. doi: 10.1016/j.critrevonc.2021.103527. Epub 2021 Nov 19. PMID: 34808375.

925. Afacan E, Ögüt B, Üstün P, Şentürk E, Yazıcı O, Adışen E. Radiation recall dermatitis triggered by inactivated COVID-19 vaccine. *Clin Exp Dermatol*. 2021 Dec;46(8):1582-1584. doi: 10.1111/ced.14786. Epub 2021 Jul 8. PMID: 34080223; PMCID: PMC8239891.
926. Hughes NM, Hammer MM, Awad MM, Jacene HA. Radiation Recall Pneumonitis on FDG PET/CT Triggered by COVID-19 Vaccination. *Clin Nucl Med*. 2022 Mar 1;47(3):e281-e283. doi: 10.1097/RLU.0000000000003980. PMID: 34739397; PMCID: PMC8820752.
927. Marples R, Douglas C, Xavier J, Collins AJ. Breast Radiation Recall Phenomenon After Astra-Zeneca COVID-19 Vaccine: A Case Series. *Cureus*. 2022 Jan 22;14(1):e21499. doi: 10.7759/cureus.21499. PMID: 35103229; PMCID: PMC8783725.

Rhabdomyolysis

928. Faissner S, Richter D, Ceylan U, et al. COVID-19 mRNA vaccine induced rhabdomyolysis and fasciitis. *J Neurol*. 2021 Aug 25:1–2. doi: 10.1007/s00415-021-10768-3. Epub ahead of print. PMID: 34435250; PMCID: PMC8386679. <https://pubmed.ncbi.nlm.nih.gov/34435250/>
929. Nassar M, Chung H, Dhayaparan Y, et al. COVID-19 vaccine induced rhabdomyolysis: Case report with literature review. *Diabetes Metab Syndr*. 2021 Jul-Aug;15(4):102170. doi: 10.1016/j.dsx.2021.06.007. Epub 2021 Jun 15. PMID: 34186348; PMCID: PMC8205294. <https://pubmed.ncbi.nlm.nih.gov/34186348/>.
930. Ajmera KM. Fatal Case of Rhabdomyolysis Post-COVID-19 Vaccine. *Infect Drug Resist*. 2021 Sep 24;14:3929-3935. doi: 10.2147/IDR.S331362. PMID: 34594116; PMCID: PMC8478340.
931. Hakroush S, Tampe B. Case Report: ANCA-Associated Vasculitis Presenting With Rhabdomyolysis and Pauci-Immune Crescentic Glomerulonephritis After Pfizer-BioNTech COVID-19 mRNA Vaccination. *Front Immunol*. 2021 Sep 30;12:762006. doi: 10.3389/fimmu.2021.762006. PMID: 34659268; PMCID: PMC8514980. <https://pubmed.ncbi.nlm.nih.gov/34659268/>
932. Gelbenegger G, Cacioppo F, Firbas C, Jilma B. Rhabdomyolysis Following Ad26.COV2.S COVID-19 Vaccination. *Vaccines (Basel)*. 2021 Aug 27;9(9):956. doi: 10.3390/vaccines9090956. PMID: 34579193; PMCID: PMC8472996.
933. Mack M, Nichols L, Guerrero DM. Rhabdomyolysis Secondary to COVID-19 Vaccination. *Cureus*. 2021 May 13;13(5):e15004. doi: 10.7759/cureus.15004. PMID: 34150372; PMCID: PMC8202440.
934. Elias C, Cardoso P, Gonçalves D, Vaz I, Cardoso L. Rhabdomyolysis Following Administration of Comirnaty®. *Eur J Case Rep Intern Med*. 2021 Aug 30;8(8):002796. doi: 10.12890/2021_002796. PMID: 34527629; PMCID: PMC8436842.

935. Tan A, Stepien KM, Narayana STK. Carnitine palmitoyltransferase II deficiency and post-COVID vaccination rhabdomyolysis. *QJM*. 2021 Nov 5;114(8):596-597. doi: 10.1093/qjmed/hcab077. PMID: 33871650; PMCID: PMC8083200.
936. Salter B, Jessome M, Tarnopolsky M, Yousuf H. Lien possible entre rhabdomyolyse et vaccin anti-SRAS-CoV-2 à ARNm chez une patiente porteuse d'une mutation du gène *RYR1*. *CMAJ*. 2022 Mar 28;194(12):E473-E478. French. doi: 10.1503/cmaj.211856-f. PMID: 35347053; PMCID: PMC8967437.
937. Al-Rasbi S, Al-Maqbali JS, Al-Farsi R, Al Shukaili MA, Al-Riyami MH, Al Falahi Z, Al Farhan H, Al Alawi AM. Myocarditis, Pulmonary Hemorrhage, and Extensive Myositis with Rhabdomyolysis 12 Days After First Dose of Pfizer-BioNTech BNT162b2 mRNA COVID-19 Vaccine: A Case Report. *Am J Case Rep*. 2022 Feb 17;23:e934399. doi: 10.12659/AJCR.934399. PMID: 35173141; PMCID: PMC8865877.
938. Kamura Y, Terao T, Akao S, Kono Y, Honma K, Matsue K. Fatal thrombotic microangiopathy with rhabdomyolysis as an initial symptom after the first dose of mRNA-1273 vaccine: A case report. *Int J Infect Dis*. 2022 Apr;117:322-325. doi: 10.1016/j.ijid.2022.02.031. Epub 2022 Feb 18. PMID: 35189339; PMCID: PMC8853962.
939. Cirillo E, Esposito C, Giardino G, Azan G, Fecarotta S, Pittaluga S, Ruggiero L, Barretta F, Frisso G, Notarangelo LD, Pignata C. Case Report: Severe Rhabdomyolysis and Multiorgan Failure After ChAdOx1 nCoV-19 Vaccination. *Front Immunol*. 2022 Mar 17;13:845496. doi: 10.3389/fimmu.2022.845496. PMID: 35371100; PMCID: PMC8968726.

Seizure Disorder

940. Aladdin Y, Shirah B. New-onset refractory status epilepticus following the ChAdOx1 nCoV-19 vaccine. *J Neuroimmunol*. 2021 Aug 15;357:577629. doi: 10.1016/j.jneuroim.2021.577629. Epub 2021 Jun 7. PMID: 34153802; PMCID: PMC8182981. <https://www.sciencedirect.com/science/article/pii/S0165572821001569>
941. Makhlof AT, Van Alphen MU, Manzano GS, Freudenreich O. A Seizure After COVID-19 Vaccination in a Patient on Clozapine. *J Clin Psychopharmacol*. 2021 Nov-Dec 01;41(6):689-690. doi: 10.1097/JCP.0000000000001488. PMID: 34735102.
942. Liu BD, Ugolini C, Jha P. Two Cases of Post-Moderna COVID-19 Vaccine Encephalopathy Associated With Nonconvulsive Status Epilepticus. *Cureus*. 2021 Jul 4;13(7):e16172. doi: 10.7759/cureus.16172. PMID: 34367780; PMCID: PMC8330960.
943. Fan HT, Lin YY, Chiang WF, Lin CY, Chen MH, Wu KA, Chan JS, Kao YH, Shyu HY, Hsiao PJ. COVID-19 vaccine-induced encephalitis and status epilepticus. *QJM*. 2022 Feb 21;115(2):91-93. doi: 10.1093/qjmed/hcab335. PMID: 34978572.

944. Ghosh R, Dubey S, Roy D, Mandal A, Naga D, Benito-León J. Focal onset non-motor seizure following COVID-19 vaccination: A mere coincidence? *Diabetes Metab Syndr*. 2021 May-Jun;15(3):1023-1024. doi: 10.1016/j.dsx.2021.05.003. Epub 2021 May 8. PMID: 34000712; PMCID: PMC8105133.
945. Šín R, Štruncová D. Status epilepticus as a complication after COVID-19 mRNA-1273 vaccine: A case report. *World J Clin Cases*. 2021 Aug 26;9(24):7218-7223. doi: 10.12998/wjcc.v9.i24.7218. PMID: 34540981; PMCID: PMC8409199.

Shoulder Pathology / Musculoskeletal / Bursitis

946. Chow JCK, Koles SL, Bois AJ. Shoulder injury related to SARS-CoV-2 vaccine administration. *CMAJ*. 2022 Jan 17;194(2):E46-E49. doi: 10.1503/cmaj.211162. PMID: 35039387; PMCID: PMC8900789.
947. Pettyjohn EW, Clugston JR, Zaremski JL. Shoulder Injury Related to Vaccine Administration and a Growing Challenge: A Focused Review. *Curr Sports Med Rep*. 2022 Mar 1;21(3):78-83. doi: 10.1249/JSR.0000000000000939. PMID: 35245242.
948. Nakajima K, Miyata A, Kato S, Oshima Y, Tanaka S. Calcific Tendinitis of the Shoulder Induced by an mRNA Vaccine for COVID-19: A Case Report. *Mod Rheumatol Case Rep*. 2022 Feb 2:rxac006. doi: 10.1093/mrcr/rxac006. Epub ahead of print. PMID: 35134200; PMCID: PMC8903335.
949. Boonsri P, Chuaychoosakoon C. Combined subacromial-subdeltoid bursitis and supraspinatus tear following a COVID-19 vaccination: A case report. *Ann Med Surg (Lond)*. 2021 Sep;69:102819. doi: 10.1016/j.amsu.2021.102819. Epub 2021 Sep 4. PMID: 34512965; PMCID: PMC8416704.
950. Wood CT, Ilyas AM. Shoulder Injury Related to Vaccine Administration: Diagnosis and Management. *J Hand Surg Glob Online*. 2022 Mar;4(2):111-117. doi: 10.1016/j.jhsg.2021.12.009. Epub 2022 Jan 28. PMID: 35128359; PMCID: PMC8797178.
951. Yuen WLP, Loh SYJ, Wang DB. SIRVA (Shoulder Injury Related to Vaccine Administration) following mRNA COVID-19 Vaccination: Case discussion and literature review. *Vaccine*. 2022 Mar 21;40(18):2546–50. doi: 10.1016/j.vaccine.2022.03.037. Epub ahead of print. PMID: 35339304; PMCID: PMC8934720.
952. Cantarelli Rodrigues T, Hidalgo PF, Skaf AY, Serfaty A. Subacromial-subdeltoid bursitis following COVID-19 vaccination: a case of shoulder injury related to vaccine administration (SIRVA). *Skeletal Radiol*. 2021 Nov;50(11):2293-2297. doi: 10.1007/s00256-021-03803-x. Epub 2021 May 4. PMID: 33944967; PMCID: PMC8094125.

953. Juárez Guerrero A, Domínguez Estirado A, Crespo Quirós J, et al Delayed cutaneous reactions after the administration of mRNA vaccines against COVID-19. *J Allergy Clin Immunol Pract*. 2021 Oct;9(10):3811-3813. doi: 10.1016/j.jaip.2021.07.012. Epub 2021 Jul 19. PMID: 34293500; PMCID: PMC8288253. <https://www.sciencedirect.com/science/article/pii/S2213219821007996>
954. McMahon DE, Kovarik CL, Damsky W, et al. Clinical and pathologic correlation of cutaneous COVID-19 vaccine reactions including V-REPP: A registry-based study. *J Am Acad Dermatol*. 2022 Jan;86(1):113-121. doi: 10.1016/j.jaad.2021.09.002. Epub 2021 Sep 10. PMID: 34517079; PMCID: PMC8431833. <https://www.sciencedirect.com/science/article/pii/S0190962221024427>
955. Kong J, Cuevas-Castillo F, Nassar Met al. Bullous drug eruption after second dose of mRNA-1273 (Moderna) COVID-19 vaccine: Case report. *J Infect Public Health*. 2021 Oct;14(10):1392-1394. doi: 10.1016/j.jiph.2021.06.021. Epub 2021 Jul 8. PMID: 34294590; PMCID: PMC8264280. <https://www.sciencedirect.com/science/article/pii/S1876034121001878>.
956. Bogdanov G, Bogdanov I, Kazandjieva J, et al. Cutaneous adverse effects of the available COVID-19 vaccines. *Clin Dermatol*. 2021 May-Jun;39(3):523-531. doi: 10.1016/j.clindermatol.2021.04.001. Epub 2021 Apr 27. PMID: 34518015; PMCID: PMC8076732. <https://pubmed.ncbi.nlm.nih.gov/34518015/>
957. Holmes GA, Desai M, Limone B, et al. A case series of cutaneous COVID-19 vaccine reactions at Loma Linda University Department of Dermatology. *JAAD Case Rep*. 2021 Oct;16:53-57. doi: 10.1016/j.jdcr.2021.07.038. Epub 2021 Aug 18. PMID: 34423106; PMCID: PMC8372465. <https://pubmed.ncbi.nlm.nih.gov/34423106/>
958. McMahon DE, Amerson E, Rosenbach M, et al. Cutaneous reactions reported after Moderna and Pfizer COVID-19 vaccination: A registry-based study of 414 cases. *J Am Acad Dermatol*. 2021 Jul;85(1):46-55. doi: 10.1016/j.jaad.2021.03.092. Epub 2021 Apr 7. PMID: 33838206; PMCID: PMC8024548. <https://pubmed.ncbi.nlm.nih.gov/33838206/>
959. McMahon DE, Kovarik CL, Damsky W, et al. Clinical and pathologic correlation of cutaneous COVID-19 vaccine reactions including V-REPP: A registry-based study. *J Am Acad Dermatol*. 2022 Jan;86(1):113-121. doi: 10.1016/j.jaad.2021.09.002. Epub 2021 Sep 10. PMID: 34517079; PMCID: PMC8431833. <https://pubmed.ncbi.nlm.nih.gov/34517079/>
960. Català A, Muñoz-Santos C, Galván-Casas C, et al. Cutaneous reactions after SARS-CoV-2 vaccination: a cross-sectional Spanish nationwide study of 405 cases. *Br J Dermatol*. 2022 Jan;186(1):142-152. doi: 10.1111/bjd.20639. Epub 2021 Sep 21. PMID: 34254291; PMCID: PMC8444756. <https://pubmed.ncbi.nlm.nih.gov/34254291/>

961. Wantavornprasert K, Noppakun N, Klaewsongkram J, et al. Generalized bullous fixed drug eruption after Oxford-AstraZeneca (ChAdOx1 nCoV-19) vaccination. *Clin Exp Dermatol*. 2022 Feb;47(2):428-432. doi: 10.1111/ced.14926. Epub 2021 Oct 10. PMID: 34482558; PMCID: PMC8652793. <https://pubmed.ncbi.nlm.nih.gov/34482558/>
962. Cinotti E, Perrot JL, Bruzziches F, Tet al. Eosinophilic dermatosis after AstraZeneca COVID-19 vaccination. *J Eur Acad Dermatol Venereol*. 2021 Nov 9:10.1111/jdv.17806. doi: 10.1111/jdv.17806. Epub ahead of print. PMID: 34753210; PMCID: PMC8657533. <https://pubmed.ncbi.nlm.nih.gov/34753210/>.
963. Larson V, Seidenberg R, Caplan A, et al. Clinical and histopathological spectrum of delayed adverse cutaneous reactions following COVID-19 vaccination. *J Cutan Pathol*. 2022 Jan;49(1):34-41. doi: 10.1111/cup.14104. Epub 2021 Aug 8. PMID: 34292611; PMCID: PMC8444807. <https://pubmed.ncbi.nlm.nih.gov/34292611/>.
964. Nagrani P, Jindal R, Goyal D. Onset/flare of psoriasis following the ChAdOx1 nCoV-19 Corona virus vaccine (Oxford-AstraZeneca/Covishield): Report of two cases. *Dermatol Ther*. 2021 Sep;34(5):e15085. doi: 10.1111/dth.15085. Epub 2021 Aug 10. PMID: 34350668; PMCID: PMC8420438. <https://pubmed.ncbi.nlm.nih.gov/34350668/>
965. Armoni-Weiss G, Sheffer-Levi S, Horev L, et al. Exacerbation of Hailey-Hailey Disease Following SARS-CoV-2 Vaccination. *Acta Derm Venereol*. 2021 Sep 22;101(9):adv00554. doi: 10.2340/00015555-3907. PMID: 34436620. <https://pubmed.ncbi.nlm.nih.gov/34436620/>
966. Bostan E, Elmas L, Yel B, et al. Exacerbation of plaque psoriasis after inactivated and BNT162b2 mRNA COVID-19 vaccines: A report of two cases. *Dermatol Ther*. 2021 Nov;34(6):e15110. doi: 10.1111/dth.15110. Epub 2021 Aug 30. PMID: 34427024; PMCID: PMC8646432. <https://pubmed.ncbi.nlm.nih.gov/34427024/>
967. Coto-Segura P, Fernández-Prada M, Mir-Bonafé M, et al. Vesiculobullous skin reactions induced by COVID-19 mRNA vaccine: report of four cases and review of the literature. *Clin Exp Dermatol*. 2022 Jan;47(1):141-143. doi: 10.1111/ced.14835. Epub 2021 Sep 2. PMID: 34236711; PMCID: PMC8444733. <https://pubmed.ncbi.nlm.nih.gov/34236711/>
968. Annabi E, Dupin N, Sohier P, et al. Rare cutaneous adverse effects of COVID-19 vaccines: a case series and review of the literature. *J Eur Acad Dermatol Venereol*. 2021 Dec;35(12):e847-e850. doi: 10.1111/jdv.17578. Epub 2021 Sep 2. PMID: 34363637; PMCID: PMC8447383. <https://pubmed.ncbi.nlm.nih.gov/34363637/>
969. Cebeci F, Kartal İ. Petechial skin rash associated with CoronaVac vaccination: first cutaneous side effect report before phase 3 results. *Eur J Hosp Pharm*. 2021 May 24;ejhpharm-2021-002794. doi: 10.1136/ejhpharm-2021-002794. Epub ahead of print. PMID: 34031153. <https://ejhp.bmj.com/content/early/2021/05/23/ejhpharm-2021-002794>

970. Waraich A, Williams G. Haematuria, a widespread petechial rash, and headaches following the Oxford AstraZeneca ChAdOx1 nCoV-19 Vaccination. *BMJ Case Rep.* 2021 Oct 7;14(10):e245440. doi: 10.1136/bcr-2021-245440. PMID: 34620638; PMCID: PMC8499345. <https://pubmed.ncbi.nlm.nih.gov/34620638/>
971. Leerunyakul K, Pakornphadungsit K, Suchonwanit P. Case Report: Pityriasis Rosea-Like Eruption Following COVID-19 Vaccination. *Front Med (Lausanne).* 2021 Sep 7;8:752443. doi: 10.3389/fmed.2021.752443. PMID: 34557507; PMCID: PMC8452904. <https://pubmed.ncbi.nlm.nih.gov/34557507/>
972. Majid I, Mearaj S. Sweet syndrome after Oxford-AstraZeneca COVID-19 vaccine (AZD1222) in an elderly female. *Dermatol Ther.* 2021 Nov;34(6):e15146. doi: 10.1111/dth.15146. Epub 2021 Oct 7. PMID: 34590397; PMCID: PMC8646808. <https://pubmed.ncbi.nlm.nih.gov/34590397/>
973. Rossi A, Magri F, Michelini S, et al. Recurrence of alopecia areata after covid-19 vaccination: A report of three cases in Italy. *J Cosmet Dermatol.* 2021 Dec;20(12):3753-3757. doi: 10.1111/jocd.14581. Epub 2021 Nov 6. PMID: 34741583. <https://pubmed.ncbi.nlm.nih.gov/34741583/>
974. Ardalan M, Moslemi H, Shafiei S, et al. Herpes-like skin lesion after AstraZeneca vaccination for COVID-19: A case report. *Clin Case Rep.* 2021 Oct 4;9(10):e04883. doi: 10.1002/ccr3.4883. PMID: 34631069; PMCID: PMC8489397. <https://pubmed.ncbi.nlm.nih.gov/34631069/>
975. Kherlopian A, Zhao C, Ge L, et al. A case of toxic epidermal necrolysis after ChAdOx1 nCoV-19 (AZD1222) vaccination. *Australas J Dermatol.* 2021 Nov 9:10.1111/ajd.13742. doi: 10.1111/ajd.13742. Epub ahead of print. PMID: 34751429; PMCID: PMC8653013. <https://pubmed.ncbi.nlm.nih.gov/34751429/>.
976. Rerknimitr P, Puaratanaarunkon T, Wongtada C, et al. Cutaneous adverse reactions from 35,229 doses of Sinovac and AstraZeneca COVID-19 vaccination: a prospective cohort study in healthcare workers. *J Eur Acad Dermatol Venereol.* 2021 Oct 17:10.1111/jdv.17761. doi: 10.1111/jdv.17761. Epub ahead of print. PMID: 34661934; PMCID: PMC8657530. <https://pubmed.ncbi.nlm.nih.gov/34661934/>
977. Cugno M, Consonni D, Lombardi A, et al. Increased Risk of Urticaria/Angioedema after BNT162b2 mRNA COVID-19 Vaccine in Health Care Workers Taking ACE Inhibitors. *Vaccines (Basel).* 2021 Sep 11;9(9):1011. doi: 10.3390/vaccines9091011. PMID: 34579248; PMCID: PMC8473401. <https://pubmed.ncbi.nlm.nih.gov/34579248/>
978. Falkenhain-López D, Gutiérrez-Collar C, Arroyo-Andrés J, et al. Widespread purpura annularis telangiectodes following mRNA SARS-CoV-2 vaccine. *J Eur Acad Dermatol Venereol.* 2021 Nov;35(11):e719-e721. doi: 10.1111/jdv.17497. Epub 2021 Jul 21. PMID: 34236717; PMCID: PMC8447368. <https://pubmed.ncbi.nlm.nih.gov/34236717/>.

979. Irvine NJ, Wiles BL. Petechiae and Desquamation of Fingers Following Immunization With BTN162b2 Messenger RNA (mRNA) COVID-19 Vaccine. *Cureus*. 2021 Aug 3;13(8):e16858. doi: 10.7759/cureus.16858. PMID: 34513435; PMCID: PMC8413049. <https://pubmed.ncbi.nlm.nih.gov/34513435/>
980. Maronese CA, Caproni M, Moltrasio C, et al. Bullous Pemphigoid Associated With COVID-19 Vaccines: An Italian Multicentre Study. *Front Med (Lausanne)*. 2022 Feb 28;9:841506. doi: 10.3389/fmed.2022.841506. PMID: 35295599; PMCID: PMC8918943. <https://pubmed.ncbi.nlm.nih.gov/35295599/>
981. Ireifej B, Weingarten M, Dhamrah U, Weingarten M, Hadi S. Leukocytoclastic Vasculitic Rash Following Second Dose of Moderna COVID-19 Vaccine. *J Investig Med High Impact Case Rep*. 2022 Jan-Dec;10:23247096211066283. doi: 10.1177/23247096211066283. PMID: 35293793. <https://pubmed.ncbi.nlm.nih.gov/35293793/>
982. Bramhoff AC, Wesselmann U, Bender ST, Berghoff AV, Hofmann SC, Balakirski G. Pityriasis rubra pilaris nach COVID-19-Impfung: Kausaler Zusammenhang oder Koinzidenz? [Pityriasis rubra pilaris after COVID-19 vaccination: causal relationship or coincidence?]. *Hautarzt*. 2022 Mar 16:1–4. German. doi: 10.1007/s00105-022-04972-z. Epub ahead of print. PMID: 35296923; PMCID: PMC8926091. <https://pubmed.ncbi.nlm.nih.gov/35296923/>
983. A Rashid MR, Syed Mohamad SN, Suria A, Shahra R. Vesicular Rash Following Immunisation With BTN162b2 Messenger RNA (mRNA) COVID-19 Vaccine: Vaccine Related or Coincidence? *Cureus*. 2022 Feb 11;14(2):e22133. doi: 10.7759/cureus.22133. PMID: 35291527; PMCID: PMC8918091. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8918091/>
984. Ben Salem, C., Khelif, A., Sahnoun, D., Ghariani, N., Sriha, B. and Denguezli, M. (2022), Another case of generalized bullous fixed drug eruption following an adenoviral vector-based COVID-19 vaccine (ChAdOx1 nCov-19). *J Eur Acad Dermatol Venereol*. <https://doi.org/10.1111/jdv.18059>
985. Pedrazini MC, da Silva MH. Pityriasis rosea-like cutaneous eruption as a possible dermatological manifestation after Oxford-AstraZeneca vaccine: Case report and brief literature review. *Dermatol Ther*. 2021 Nov;34(6):e15129. doi: 10.1111/dth.15129. Epub 2021 Sep 25. PMID: 34533265; PMCID: PMC8646511.
986. Souaid K, Oulès B, Sohier P, Deschamps L, Aractingi S, Dupin N. Type I Interferon Signature in Chilblains Following SARS-CoV-2 mRNA Vaccine: A Case Report. *Acta Derm Venereol*. 2021 Nov 10;101(11):adv00589. doi: 10.2340/00015555-3888. PMID: 34396420.
987. Meara AS, Silkowski M, Quin K, Jarjour W. A Case of Chilblains-like Lesions Post SARS-CoV-2 Vaccine? *J Rheumatol*. 2021 Nov;48(11):1754. doi: 10.3899/jrheum.210226. Epub 2021 Jul 1. PMID: 34210829.

988. Temiz SA, Abdelmaksoud A, Dursun R, Vestita M. Acral chilblain-like lesions following inactivated SARS-CoV-2 vaccination. *Int J Dermatol*. 2021 Sep;60(9):1152-1153. doi: 10.1111/ijd.15619. Epub 2021 Apr 26. PMID: 33900629; PMCID: PMC8239931.
989. Alshammari F, Abuzied Y, Korairi A, Alajlan M, Alzomia M, AlSheef M. Bullous pemphigoid after second dose of mRNA- (Pfizer-BioNTech) Covid-19 vaccine: A case report. *Ann Med Surg (Lond)*. 2022 Mar;75:103420. doi: 10.1016/j.amsu.2022.103420. Epub 2022 Mar 1. PMID: 35251600; PMCID: PMC8885466.
990. Herman A, Peeters C, Verroken A, Tromme I, Tennstedt D, Marot L, Dachelet C, Gruson D, Hermans C, Baeck M. Evaluation of Chilblains as a Manifestation of the COVID-19 Pandemic. *JAMA Dermatol*. 2020 Sep 1;156(9):998-1003. doi: 10.1001/jamadermatol.2020.2368. PMID: 32584377; PMCID: PMC7317655.
991. Cameli N, Silvestri M, Mariano M, Nisticò SP, Cristaudo A. Pernio-like skin lesions after the second dose of Pfizer-BioNTech COVID-19 vaccine. *J Eur Acad Dermatol Venereol*. 2021 Nov;35(11):e725-e727. doi: 10.1111/jdv.17500. Epub 2021 Jul 24. PMID: 34236735; PMCID: PMC8447464.
992. Maronese CA, Caproni M, Moltrasio C, Genovese G, Vezzoli P, Sena P, Previtali G, Cozzani E, Gasparini G, Parodi A, Atzori L, Antiga E, Maglie R, Moro F, Mariotti EB, Corrà A, Pallotta S, Didona B, Marzano AV, Di Zenzo G. Bullous Pemphigoid Associated With COVID-19 Vaccines: An Italian Multicentre Study. *Front Med (Lausanne)*. 2022 Feb 28;9:841506. doi: 10.3389/fmed.2022.841506. PMID: 35295599; PMCID: PMC8918943.
993. Korekawa A, Nakajima K, Fukushi K, Nakano H, Sawamura D. Three cases of drug-induced hypersensitivity syndrome associated with mRNA-based coronavirus disease 2019 vaccines. *J Dermatol*. 2022 Mar 3. doi: 10.1111/1346-8138.16347. Epub ahead of print. PMID: 35243679.

Thyroid Disease

994. İremli BG, Şendur SN, Ünlütürk U. Three Cases of Subacute Thyroiditis Following SARS-CoV-2 Vaccine: Postvaccination ASIA Syndrome. *J Clin Endocrinol Metab*. 2021 Aug 18;106(9):2600-2605. doi: 10.1210/clinem/dgab373. PMID: 34043800; PMCID: PMC8194612. <https://pubmed.ncbi.nlm.nih.gov/34043800/>.
995. Park KS, Fung SE, Ting M, Ozzello DJ, Yoon JS, Liu CY, Korn BS, Kikkawa DO. Thyroid eye disease reactivation associated with COVID-19 vaccination. *Taiwan J Ophthalmol*. 2022 Feb 28;12(1):93-96. doi: 10.4103/tjo.tjo_61_21. PMID: 35399967; PMCID: PMC8988971.
996. Jafarzadeh A, Nemati M, Jafarzadeh S, Nozari P, Mortazavi SMJ. Thyroid dysfunction following vaccination with COVID-19 vaccines: a basic review of the preliminary evidence. *J Endocrinol Invest*. 2022 Mar 26:1–29. doi: 10.1007/s40618-022-01786-7. Epub ahead of print. PMID: 35347651; PMCID: PMC8960081.

997. Kurtulmus N, Kayikci K. Subacute Thyroiditis Following SARS-CoV-2 Vaccines: Six Cases Report and Review of the Literature. *Horm Metab Res.* 2022 Mar 22. doi: 10.1055/a-1804-9561. Epub ahead of print. PMID: 35318621.
998. Kishimoto M, Ishikawa T, Odawara M. Subacute thyroiditis with liver dysfunction following coronavirus disease 2019 (COVID-19) vaccination: report of two cases and a literature review. *Endocr J.* 2022 Mar 10. doi: 10.1507/endocrj.EJ21-0629. Epub ahead of print. PMID: 35264515.
999. Chua MWJ. Graves' disease after COVID-19 vaccination. *Ann Acad Med Singap.* 2022 Feb;51(2):127-128. doi: 10.47102/annals-acadmedsg.2021398. PMID: 35224612.
1000. Bostan H, Ucan B, Kizilgul M, Calapkulu M, Hepsen S, Gul U, Ozturk Unsal I, Cakal E. Relapsed and newly diagnosed Graves' disease due to immunization against COVID-19: A case series and review of the literature. *J Autoimmun.* 2022 Apr;128:102809. doi: 10.1016/j.jaut.2022.102809. Epub 2022 Feb 24. PMID: 35220164; PMCID: PMC8867370.
1001. Jhon M, Lee SH, Oh TH, Kang HC. Subacute Thyroiditis After Receiving the mRNA COVID-19 Vaccine (Moderna): The First Case Report and Literature Review in Korea. *J Korean Med Sci.* 2022 Feb 14;37(6):e39. doi: 10.3346/jkms.2022.37.e39. PMID: 35166076; PMCID: PMC8845100.
1002. Lin YH, Huang H, Hwang WZ. Moyamoya disease with Sjogren disease and autoimmune thyroiditis presenting with left intracranial hemorrhage after messenger RNA-1273 vaccination: A case report. *Medicine (Baltimore).* 2022 Feb 11;101(6):e28756. doi: 10.1097/MD.00000000000028756. PMID: 35147099; PMCID: PMC8830843.
1003. Capezzone M, Tosti-Balducci M, Morabito EM, Caldarelli GP, Sagnella A, Cantara S, Alessandri M, Castagna MG. Silent thyroiditis following vaccination against COVID-19: report of two cases. *J Endocrinol Invest.* 2022 May;45(5):1079-1083. doi: 10.1007/s40618-021-01725-y. Epub 2022 Jan 16. PMID: 35034341; PMCID: PMC8761095.
1004. Bostan H, Unsal IO, Kizilgul M, Gul U, Sencar ME, Ucan B, Cakal E. Two cases of subacute thyroiditis after different types of SARS-CoV-2 vaccination. *Arch Endocrinol Metab.* 2022 Mar 8;66(1):97-103. doi: 10.20945/2359-3997000000430. Epub 2022 Jan 13. PMID: 35029854.
1005. Pla Peris B, Merchante Alfaro AÁ, Maravall Royo FJ, Abellán Galiana P, Pérez Naranjo S, González Boillos M. Thyrotoxicosis following SARS-COV-2 vaccination: a case series and discussion. *J Endocrinol Invest.* 2022 May;45(5):1071-1077. doi: 10.1007/s40618-022-01739-0. Epub 2022 Jan 11. PMID: 35015288; PMCID: PMC8749352.
1006. Rubinstein T. Reply re: "Thyroid Eye Disease Following COVID-19 Vaccine in a Patient With a History Graves' Disease: A Case Report". *Ophthalmic Plast Reconstr Surg.* 2022

- Jan-Feb 01;38(1):95-96. doi: 10.1097/IOP.0000000000002124. PMID: 34982066; PMCID: PMC8718105.
1007. Goblirsch TJ, Paulson AE, Tashko G, Mekonnen AJ. Graves' disease following administration of second dose of SARS-CoV-2 vaccine. *BMJ Case Rep.* 2021 Dec 30;14(12):e246432. doi: 10.1136/bcr-2021-246432. PMID: 34969799; PMCID: PMC8719118.
1008. Weintraub MA, Ameer B, Sinha Gregory N. Graves Disease Following the SARS-CoV-2 Vaccine: Case Series. *J Investig Med High Impact Case Rep.* 2021 Jan-Dec;9:23247096211063356. doi: 10.1177/23247096211063356. PMID: 34939881; PMCID: PMC8724979.
1009. Pandya M, Thota G, Wang X, Luo H. Thyroiditis after Coronavirus Disease 2019 (COVID-19) mRNA Vaccine: A Case Series. *AACE Clin Case Rep.* 2021 Dec 16. doi: 10.1016/j.aace.2021.12.002. Epub ahead of print. PMID: 34934810; PMCID: PMC8675183.
1010. Sözen M, Topaloğlu Ö, Çetinarslan B, Selek A, Cantürk Z, Gezer E, Köksalan D, Bayraktaroğlu T. COVID-19 mRNA vaccine may trigger subacute thyroiditis. *Hum Vaccin Immunother.* 2021 Dec 2;17(12):5120-5125. doi: 10.1080/21645515.2021.2013083. Epub 2021 Dec 10. PMID: 34893014; PMCID: PMC8904015.
1011. Lui DTW, Lee KK, Lee CH, Lee ACH, Hung IFN, Tan KCB. Development of Graves' Disease After SARS-CoV-2 mRNA Vaccination: A Case Report and Literature Review. *Front Public Health.* 2021 Nov 23;9:778964. doi: 10.3389/fpubh.2021.778964. PMID: 34888290; PMCID: PMC8650637.
1012. Jeeyavudeen MS, Patrick AW, Gibb FW, Dover AR. COVID-19 vaccine-associated subacute thyroiditis: an unusual suspect for de Quervain's thyroiditis. *BMJ Case Rep.* 2021 Nov 9;14(11):e246425. doi: 10.1136/bcr-2021-246425. PMID: 34753732; PMCID: PMC8578953.
1013. Mungmunpantipantip R, Wiwanitkit V. Thyrotoxicosis after COVID-19 vaccination. *Endocrine.* 2022 Jan;75(1):22. doi: 10.1007/s12020-021-02922-8. Epub 2021 Oct 29. PMID: 34714513; PMCID: PMC8554509.
1014. Chatzi S, Karampela A, Spiliopoulou C, Boutzios G. Subacute thyroiditis after SARS-CoV-2 vaccination: a report of two sisters and summary of the literature. *Hormones (Athens).* 2022 Mar;21(1):177-179. doi: 10.1007/s42000-021-00332-z. Epub 2021 Oct 22. PMID: 34686971; PMCID: PMC8536248.
1015. Patrizio A, Ferrari SM, Antonelli A, Fallahi P. A case of Graves' disease and type 1 diabetes mellitus following SARS-CoV-2 vaccination. *J Autoimmun.* 2021 Dec;125:102738. doi: 10.1016/j.jaut.2021.102738. Epub 2021 Oct 12. PMID: 34653776; PMCID: PMC8506108.

1016. Sriphrapradang C, Shantavasinkul PC. Graves' disease following SARS-CoV-2 vaccination. *Endocrine*. 2021 Dec;74(3):473-474. doi: 10.1007/s12020-021-02902-y. Epub 2021 Oct 14. PMID: 34648112; PMCID: PMC8514605.
1017. Sigstad E, Grøholt KK, Westerheim O. Subacute thyroiditis after vaccination against SARS-CoV-2. *Tidsskr Nor Laegeforen*. 2021 Oct 11;141(2021-14). English, Norwegian. doi: 10.4045/tidsskr.21.0554. PMID: 34641650.
1018. Lee KA, Kim YJ, Jin HY. Thyrotoxicosis after COVID-19 vaccination: seven case reports and a literature review. *Endocrine*. 2021 Dec;74(3):470-472. doi: 10.1007/s12020-021-02898-5. Epub 2021 Oct 12. PMID: 34637073; PMCID: PMC8507356.
1019. Saygılı ES, Karakilic E. Subacute thyroiditis after inactive SARS-CoV-2 vaccine. *BMJ Case Rep*. 2021 Oct 1;14(10):e244711. doi: 10.1136/bcr-2021-244711. PMID: 34598964; PMCID: PMC8488697.
1020. Saygılı ES, Karakilic E. Subacute thyroiditis after inactive SARS-CoV-2 vaccine. *BMJ Case Rep*. 2021 Oct 1;14(10):e244711. doi: 10.1136/bcr-2021-244711. PMID: 34598964; PMCID: PMC8488697.
1021. Patel KR, Cunnane ME, Deschler DG. SARS-CoV-2 vaccine-induced subacute thyroiditis. *Am J Otolaryngol*. 2022 Jan-Feb;43(1):103211. doi: 10.1016/j.amjoto.2021.103211. Epub 2021 Sep 9. PMID: 34534760; PMCID: PMC8426324.
1022. Sriphrapradang C. Aggravation of hyperthyroidism after heterologous prime-boost immunization with inactivated and adenovirus-vectored SARS-CoV-2 vaccine in a patient with Graves' disease. *Endocrine*. 2021 Nov;74(2):226-227. doi: 10.1007/s12020-021-02879-8. Epub 2021 Sep 17. PMID: 34533769; PMCID: PMC8447113.
1023. Zettinig G, Krebs M. Two further cases of Graves' disease following SARS-Cov-2 vaccination. *J Endocrinol Invest*. 2022 Jan;45(1):227-228. doi: 10.1007/s40618-021-01650-0. Epub 2021 Aug 3. PMID: 34342859; PMCID: PMC8328813.
1024. Oyibo SO. Subacute Thyroiditis After Receiving the Adenovirus-Vectored Vaccine for Coronavirus Disease (COVID-19). *Cureus*. 2021 Jun 29;13(6):e16045. doi: 10.7759/cureus.16045. PMID: 34235030; PMCID: PMC8242270.
1025. Şahin Tekin M, Şaylısoy S, Yorulmaz G. Subacute thyroiditis following COVID-19 vaccination in a 67-year-old male patient: a case report. *Hum Vaccin Immunother*. 2021 Nov 2;17(11):4090-4092. doi: 10.1080/21645515.2021.1947102. Epub 2021 Jul 1. PMID: 34196589; PMCID: PMC8828111.
1026. İremli BG, Şendur SN, Ünlütürk U. Three Cases of Subacute Thyroiditis Following SARS-CoV-2 Vaccine: Postvaccination ASIA Syndrome. *J Clin Endocrinol Metab*. 2021 Aug

18;106(9):2600-2605. doi: 10.1210/clinem/dgab373. PMID: 34043800; PMCID: PMC8194612.

Vaccine-induced thrombotic thrombocytopenia

1027. Porres-Aguilar M, Lazo-Langner A, Panduro A, et al. COVID-19 vaccine-induced immune thrombotic thrombocytopenia: An emerging cause of splanchnic vein thrombosis. *Ann Hepatol.* 2021 Jul-Aug;23:100356. doi: 10.1016/j.aohep.2021.100356. Epub 2021 Apr 30. PMID: 33940219; PMCID: PMC8086259. <https://www.sciencedirect.com/science/article/pii/S1665268121000557>
1028. Aladdin Y, Algahtani H, Shirah Bader. Vaccine-Induced immune thrombotic thrombocytopenia with Disseminated intravascular coagulation and Death following ChadOx1 nCov-19 Vaccine. *Journal of Stroke and Cerebrovascular Diseases.* September 2021;30(9), <https://www.sciencedirect.com/science/article/pii/S1052305721003414>
1029. Chang JC, Hawley HB. Vaccine-Associated Thrombocytopenia and Thrombosis: Venous Endotheliopathy Leading to Venous Combined Micro-Macrothrombosis. *Medicina (Kaunas).* 2021 Oct 26;57(11):1163. doi: 10.3390/medicina57111163. PMID: 34833382; PMCID: PMC8621006. https://science.gc.ca/eic/site/063.nsf/eng/h_98291.html
1030. Iba T, Levy JH. The roles of platelets in COVID-19-associated coagulopathy and vaccine-induced immune thrombotic thrombocytopenia. *Trends Cardiovasc Med.* 2022 Jan;32(1):1-9. doi: 10.1016/j.tcm.2021.08.012. Epub 2021 Aug 27. PMID: 34455073; PMCID: PMC8390120. <https://www.sciencedirect.com/science/article/pii/S1050173821000967>
1031. Cines DB, Bussell JB. SARS-CoV-2 Vaccine-Induced Immune Thrombotic Thrombocytopenia. *N Engl J Med.* 2021 Jun 10;384(23):2254-2256. doi: 10.1056/NEJMe2106315. Epub 2021 Apr 16. Erratum in: *N Engl J Med.* 2021 Jun 10;384(23):e92. PMID: 33861524; PMCID: PMC8063912. <https://www.nejm.org/doi/full/10.1056/nejme2106315>
1032. Welsh KJ, Baumblatt J, Chege W, et al. Thrombocytopenia including immune thrombocytopenia after receipt of mRNA COVID-19 vaccines reported to the Vaccine Adverse Event Reporting System (VAERS). *Vaccine.* 2021 Jun 8;39(25):3329-3332. doi: 10.1016/j.vaccine.2021.04.054. Epub 2021 Apr 30. PMID: 34006408; PMCID: PMC8086806. <https://www.sciencedirect.com/science/article/pii/S0264410X21005247>
1033. Varona JF, García-Isidro M, Moeinvaziri M, et al. Primary adrenal insufficiency associated with Oxford-AstraZeneca ChAdOx1 nCoV-19 vaccine-induced immune thrombotic thrombocytopenia (VITT). *Eur J Intern Med.* 2021 Sep;91:90-92. doi: 10.1016/j.ejim.2021.06.025. Epub 2021 Jul 10. PMID: 34256983; PMCID: PMC8271354. <https://www.sciencedirect.com/science/article/pii/S0953620521002363>

1034. McGonagle D, De Marco G, Bridgewood C. Mechanisms of Immunothrombosis in Vaccine-Induced Thrombotic Thrombocytopenia (VITT) Compared to Natural SARS-CoV-2 Infection. *J Autoimmun.* 2021 Jul;121:102662. doi: 10.1016/j.jaut.2021.102662. Epub 2021 May 19. PMID: 34051613; PMCID: PMC8133385. <https://www.sciencedirect.com/science/article/abs/pii/S0896841121000706>
1035. Tiede A, Sachs UJ, Czwalińska A, et al. Prothrombotic immune thrombocytopenia after COVID-19 vaccination. *Blood.* 2021 Jul 29;138(4):350-353. doi: 10.1182/blood.2021011958. PMID: 34323939; PMCID: PMC8084604. <https://www.sciencedirect.com/science/article/pii/S0006497121009411>
1036. Tsilingiris D, Vallianou NG, Karampela I, et al. Vaccine induced thrombotic thrombocytopenia: The shady chapter of a success story. *Metabol Open.* 2021 Sep;11:100101. doi: 10.1016/j.metop.2021.100101. Epub 2021 Jun 18. PMID: 34179744; PMCID: PMC8217988. <https://www.sciencedirect.com/science/article/pii/S2589936821000256>
1037. Paulsen FO, Schaefer C, et al. Immune thrombocytopenic purpura after vaccination with COVID-19 vaccine (ChAdOx1 nCov-19). *Blood.* 2021 Sep 16;138(11):996-999. doi: 10.1182/blood.2021012790. PMID: 34297792; PMCID: PMC8313798. <https://www.sciencedirect.com/science/article/abs/pii/S0006497121013963>.
1038. De Cristofaro R, Sanguinetti M. Vaccine-induced thrombotic thrombocytopenia, a rare but severe case of friendly fire in the battle against COVID-19 pandemic: What pathogenesis? *Eur J Intern Med.* 2021 Sep;91:88-89. doi: 10.1016/j.ejim.2021.06.020. Epub 2021 Jun 29. PMID: 34244023; PMCID: PMC8238658. <https://www.sciencedirect.com/science/article/pii/S0953620521002314>
1039. Lee EJ, Cines DB, Gernsheimer T, et al. Thrombocytopenia following Pfizer and Moderna SARS-CoV-2 vaccination. *Am J Hematol.* 2021 May 1;96(5):534-537. doi: 10.1002/ajh.26132. Epub 2021 Mar 9. PMID: 33606296; PMCID: PMC8014568. <https://pubmed.ncbi.nlm.nih.gov/33606296/>
1040. Helms JM, Ansteatt KT, Roberts JC, et al. Severe, Refractory Immune Thrombocytopenia Occurring After SARS-CoV-2 Vaccine. *J Blood Med.* 2021 Apr 6;12:221-224. doi: 10.2147/JBM.S307047. PMID: 33854395; PMCID: PMC8040692. <https://pubmed.ncbi.nlm.nih.gov/33854395/>
1041. Malayala SV, Mohan G, Vasireddy D, Atluri P. Purpuric Rash and Thrombocytopenia After the mRNA-1273 (Moderna) COVID-19 Vaccine. *Cureus.* 2021;13(3):e14099. Published 2021 Mar 25. doi:10.7759/cureus.14099 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7996471/>

1042. Kuter DJ. Exacerbation of immune thrombocytopenia following COVID-19 vaccination. *Br J Haematol*. 2021 Nov;195(3):365-370. doi: 10.1111/bjh.17645. Epub 2021 Jun 24. PMID: 34075578; PMCID: PMC8239625. <https://pubmed.ncbi.nlm.nih.gov/34075578/>
1043. de Bruijn S, Maes MB, De Waele L, et al. First report of a de novo iTTP episode associated with an mRNA-based anti-COVID-19 vaccination. *J Thromb Haemost*. 2021 Aug;19(8):2014-2018. doi: 10.1111/jth.15418. Epub 2021 Jul 5. PMID: 34105244; PMCID: PMC8236927. <https://pubmed.ncbi.nlm.nih.gov/34105244/>
1044. Vayne C, Rollin J, Gruel Y, et al. PF4 Immunoassays in Vaccine-Induced Thrombotic Thrombocytopenia. *N Engl J Med*. 2021 Jul 22;385(4):376-378. doi: 10.1056/NEJMc2106383. Epub 2021 May 19. PMID: 34010527; PMCID: PMC8174029. <https://www.nejm.org/doi/full/10.1056/NEJMc2106383>
1045. Huynh A, Kelton JG, Arnold DM, et al. Antibody epitopes in vaccine-induced immune thrombotic thrombocytopenia. *Nature*. 2021 Aug;596(7873):565-569. doi: 10.1038/s41586-021-03744-4. Epub 2021 Jul 7. PMID: 34233346. <https://www.nature.com/articles/s41586-021-03744-4>
1046. Akiyama H, Kakiuchi S, Rikitake J, et al. Immune thrombocytopenia associated with Pfizer-BioNTech's BNT162b2 mRNA COVID-19 vaccine. *IDCases*. 2021;25:e01245. doi: 10.1016/j.idcr.2021.e01245. Epub 2021 Aug 4. PMID: 34381692; PMCID: PMC8336989. <https://www.sciencedirect.com/science/article/pii/S2214250921002018>.
1047. Franchini M, Liunbruno GM, Pezzo M. COVID-19 vaccine-associated immune thrombosis and thrombocytopenia (VITT): Diagnostic and therapeutic recommendations for a new syndrome. *Eur J Haematol*. 2021 Aug;107(2):173-180. doi: 10.1111/ejh.13665. Epub 2021 Jun 9. PMID: 33987882; PMCID: PMC8239516. <https://pubmed.ncbi.nlm.nih.gov/33987882/>
1048. Favaloro EJ. Laboratory testing for suspected COVID-19 vaccine-induced (immune) thrombotic thrombocytopenia. *Int J Lab Hematol*. 2021 Aug;43(4):559-570. doi: 10.1111/ijlh.13629. Epub 2021 Jun 17. PMID: 34138513; PMCID: PMC8444734. <https://pubmed.ncbi.nlm.nih.gov/34138513/>
1049. Hippisley-Cox J, Patone M, Mei XW, et al. Risk of thrombocytopenia and thromboembolism after covid-19 vaccination and SARS-CoV-2 positive testing: self-controlled case series study. *BMJ*. 2021 Aug 26;374:n1931. doi: 10.1136/bmj.n1931. PMID: 34446426; PMCID: PMC8388189. <https://pubmed.ncbi.nlm.nih.gov/34446426/>
1050. Sharifian-Dorche M, Bahmanyar M, Sharifian-Dorche A, et al. Vaccine-induced immune thrombotic thrombocytopenia and cerebral venous sinus thrombosis post COVID-19 vaccination; a systematic review. *J Neurol Sci*. 2021 Sep 15;428:117607. doi: 10.1016/j.jns.2021.117607. Epub 2021 Aug 3. PMID: 34365148; PMCID: PMC8330139. <https://pubmed.ncbi.nlm.nih.gov/34365148/>.

1051. Varona JF, García-Isidro M, Moeinvaziri M, et al. Primary adrenal insufficiency associated with Oxford-AstraZeneca ChAdOx1 nCoV-19 vaccine-induced immune thrombotic thrombocytopenia (VITT). *Eur J Intern Med.* 2021 Sep;91:90-92. doi: 10.1016/j.ejim.2021.06.025. Epub 2021 Jul 10. PMID: 34256983; PMCID: PMC8271354. <https://pubmed.ncbi.nlm.nih.gov/34256983/>
1052. Dutta A, Ghosh R, Bhattacharya D, et al. Anti-PF4 antibody negative cerebral venous sinus thrombosis without thrombocytopenia following immunization with COVID-19 vaccine in an elderly non-comorbid Indian male, managed with conventional heparin-warfarin based anticoagulation. *Diabetes Metab Syndr.* 2021 Jul-Aug;15(4):102184. doi: 10.1016/j.dsx.2021.06.021. Epub 2021 Jun 24. PMID: 34186376; PMCID: PMC8223002. <https://pubmed.ncbi.nlm.nih.gov/34186376/>
1053. Zakaria Z, Sapiai NA, Ghani ARI. Cerebral venous sinus thrombosis 2 weeks after the first dose of mRNA SARS-CoV-2 vaccine. *Acta Neurochir (Wien).* 2021 Aug;163(8):2359-2362. doi: 10.1007/s00701-021-04860-w. Epub 2021 Jun 8. PMID: 34101024; PMCID: PMC8186353. <https://pubmed.ncbi.nlm.nih.gov/34101024/>
1054. Tølbøll Sørensen AL, Rolland M, Hartmann J, et al. A case of thrombocytopenia and multiple thromboses after vaccination with ChAdOx1 nCoV-19 against SARS-CoV-2. *Blood Adv.* 2021 Jun 22;5(12):2569-2574. doi: 10.1182/bloodadvances.2021004904. PMID: 34137813; PMCID: PMC8219289. <https://pubmed.ncbi.nlm.nih.gov/34137813/>
1055. Marcucci R, Marietta M. Vaccine-induced thrombotic thrombocytopenia: the elusive link between thrombosis and adenovirus-based SARS-CoV-2 vaccines. *Intern Emerg Med.* 2021 Aug;16(5):1113-1119. doi: 10.1007/s11739-021-02793-x. Epub 2021 Jun 30. PMID: 34191218; PMCID: PMC8243058. <https://pubmed.ncbi.nlm.nih.gov/34191218/>
1056. Costentin G, Ozkul-Wermester O, Triquenot A, et al. Acute Ischemic Stroke Revealing ChAdOx1 nCov-19 Vaccine-Induced Immune Thrombotic Thrombocytopenia: Impact on Recanalization Strategy. *J Stroke Cerebrovasc Dis.* 2021 Sep;30(9):105942. doi: 10.1016/j.jstrokecerebrovasdis.2021.105942. Epub 2021 Jun 24. PMID: 34175640. <https://pubmed.ncbi.nlm.nih.gov/34175640/>
1057. Varona JF, García-Isidro M, Moeinvaziri M, et al. Primary adrenal insufficiency associated with Oxford-AstraZeneca ChAdOx1 nCoV-19 vaccine-induced immune thrombotic thrombocytopenia (VITT). *Eur J Intern Med.* 2021 Sep;91:90-92. doi: 10.1016/j.ejim.2021.06.025. Epub 2021 Jul 10. PMID: 34256983; PMCID: PMC8271354. <https://pubmed.ncbi.nlm.nih.gov/34256983/>
1058. Kragholm K, Sessa M, Mulvad T, et al. Thrombocytopenia after COVID-19 vaccination. *J Autoimmun.* 2021 Sep;123:102712. doi: 10.1016/j.jaut.2021.102712. Epub 2021 Jul 27. PMID: 34332437; PMCID: PMC8313538. <https://pubmed.ncbi.nlm.nih.gov/34332437/>
1059. Tarawneh O, Tarawneh H. Immune thrombocytopenia in a 22-year-old post Covid-19 vaccine. *Am J Hematol.* 2021 May 1;96(5):E133-E134. doi: 10.1002/ajh.26106. Epub

- 2021 Feb 11. PMID: 33476455; PMCID:
PMC8014773. <https://pubmed.ncbi.nlm.nih.gov/33476455/>
1060. Koch M, Fuld S, Middeke JM, et al. Secondary Immune Thrombocytopenia (ITP) Associated with ChAdOx1 Covid-19 Vaccination - A Case Report. *TH Open*. 2021 Jul 30;5(3):e315-e318. doi: 10.1055/s-0041-1731774. PMID: 34377889; PMCID: PMC8324423. <https://pubmed.ncbi.nlm.nih.gov/34377889/>
1061. Schulz JB, Berlit P, Diener HC, et al. COVID-19 Vaccine-Associated Cerebral Venous Thrombosis in Germany. *Ann Neurol*. 2021 Oct;90(4):627-639. doi: 10.1002/ana.26172. Epub 2021 Aug 23. PMID: 34288044; PMCID: PMC8427115. <https://pubmed.ncbi.nlm.nih.gov/34288044/>
1062. De Michele M, Iacobucci M, Chistolini A, et al. Malignant cerebral infarction after ChAdOx1 nCov-19 vaccination: a catastrophic variant of vaccine-induced immune thrombotic thrombocytopenia. *Nat Commun*. 2021 Aug 2;12(1):4663. doi: 10.1038/s41467-021-25010-x. PMID: 34341358; PMCID: PMC8329262. <https://pubmed.ncbi.nlm.nih.gov/34341358/>
1063. Akiyama H, Kakiuchi S, Rikitake J, et al. Immune thrombocytopenia associated with Pfizer-BioNTech's BNT162b2 mRNA COVID-19 vaccine. *IDCases*. 2021;25:e01245. doi: 10.1016/j.idcr.2021.e01245. Epub 2021 Aug 4. PMID: 34381692; PMCID: PMC8336989. <https://www.sciencedirect.com/science/article/pii/S2214250921002018>
1064. Fueyo-Rodriguez O, Valente-Acosta B, Jimenez-Soto R, et al. Secondary immune thrombocytopenia supposedly attributable to COVID-19 vaccination. *BMJ Case Rep*. 2021 May 31;14(5):e242220. doi: 10.1136/bcr-2021-242220. PMID: 34059544; PMCID: PMC8169472. <https://casereports.bmj.com/content/14/5/e242220.abstract>.
1065. Ganzel C, Ben-Chetrit E. Immune Thrombocytopenia Following the Pfizer-BioNTech BNT162b2 mRNA COVID-19 Vaccine. *Isr Med Assoc J*. 2021 Jun;23(6):341. PMID: 34155844. <https://pubmed.ncbi.nlm.nih.gov/34155844/>
1066. Idogun PO, Ward MC, Teklie Y, et al. Newly Diagnosed Idiopathic Thrombocytopenia Post COVID-19 Vaccine Administration. *Cureus*. 2021;13(5):e14853. Published 2021 May 5. doi:10.7759/cureus.14853 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8176657/>.
1067. Julian JA, Mathern DR, Fernando D. Idiopathic Thrombocytopenic Purpura and the Moderna Covid-19 Vaccine. *Ann Emerg Med*. 2021 Jun;77(6):654-656. doi: 10.1016/j.annemergmed.2021.02.011. Epub 2021 Feb 12. PMID: 34030782; PMCID: PMC7879100. [https://www.annemergmed.com/article/S0196-0644\(21\)00122-0/fulltext](https://www.annemergmed.com/article/S0196-0644(21)00122-0/fulltext).

1068. Lee EJ, Cines DB, Gernsheimer T, et al. Thrombocytopenia following Pfizer and Moderna SARS-CoV-2 vaccination. *Am J Hematol*. 2021;96(5):534-537. doi:10.1002/ajh.26132 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8014568/>.
1069. Hines A, Shen JG, Olazagasti C, Shams S. Immune thrombocytopenic purpura and acute liver injury after COVID-19 vaccine. *BMJ Case Rep*. 2021 Jul 30;14(7):e242678. doi: 10.1136/bcr-2021-242678. PMID: 34330722; PMCID: PMC8327821. <https://casereports.bmj.com/content/14/7/e242678>.
1070. Portuguese AJ, Sunga C, Kruse-Jarres R, et al. Autoimmune- and complement-mediated hematologic condition recrudescence following SARS-CoV-2 vaccination. *Blood Adv*. 2021 Jul 13;5(13):2794-2798. doi: 10.1182/bloodadvances.2021004957. PMID: 34255033; PMCID: PMC8276576. <https://ashpublications.org/bloodadvances/article/5/13/2794/476324/Autoimmune-and-complement-mediated-hematologic>
1071. Monagle P, Ng AP, Linden M, et al. Vaccine-induced immune thrombosis and thrombocytopenia syndrome following adenovirus-vectored severe acute respiratory syndrome coronavirus 2 vaccination: a novel hypothesis regarding mechanisms and implications for future vaccine development. *Immunol Cell Biol*. 2021 Nov;99(10):1006-1010. doi: 10.1111/imcb.12505. Epub 2021 Oct 18. PMID: 34664303; PMCID: PMC8652900. <https://pubmed.ncbi.nlm.nih.gov/34664303/>
1072. Welsh KJ, Baumblatt J, Chege W, Goud R, Nair N. Thrombocytopenia including immune thrombocytopenia after receipt of mRNA COVID-19 vaccines reported to the Vaccine Adverse Event Reporting System (VAERS). *Vaccine*. 2021 Jun 8;39(25):3329-3332. doi: 10.1016/j.vaccine.2021.04.054. Epub 2021 Apr 30. PMID: 34006408; PMCID: PMC8086806. <https://www.ncbi.nlm.nih.gov/pubmed/34006408>
1073. Flower L, Bares Z, Santiapillai G, et al. Acute ST-segment elevation myocardial infarction secondary to vaccine-induced immune thrombosis with thrombocytopenia (VITT). *BMJ Case Rep*. 2021 Sep 27;14(9):e245218. doi: 10.1136/bcr-2021-245218. PMID: 34580132; PMCID: PMC8477249. <https://pubmed.ncbi.nlm.nih.gov/34580132/>.
1074. Asmat H, Fayeye F, Alshakaty H, Patel J. A rare case of COVID-19 vaccine-induced thrombotic thrombocytopenia (VITT) involving the veno-splanchnic and pulmonary arterial circulation, from a UK district general hospital. *BMJ Case Rep*. 2021 Sep 17;14(9):e244223. doi: 10.1136/bcr-2021-244223. PMID: 34535492; PMCID: PMC8451313. <https://pubmed.ncbi.nlm.nih.gov/34535492/>
1075. Alalwan AA, Abou Trabeh A, Premchandran D, et al. COVID-19 Vaccine-Induced Thrombotic Thrombocytopenia: A Case Series. *Cureus*. 2021 Sep 10;13(9):e17862. doi: 10.7759/cureus.17862. PMID: 34527501; PMCID: PMC8432416. <https://pubmed.ncbi.nlm.nih.gov/34527501/>

1076. MacIntyre CR, Veness B, Berger D, et al. Thrombosis with Thrombocytopenia Syndrome (TTS) following AstraZeneca ChAdOx1 nCoV-19 (AZD1222) COVID-19 vaccination - A risk-benefit analysis for people < 60 years in Australia. *Vaccine*. 2021 Aug 9;39(34):4784-4787. doi: 10.1016/j.vaccine.2021.07.013. Epub 2021 Jul 10. PMID: 34272095; PMCID: PMC8270740. <https://pubmed.ncbi.nlm.nih.gov/34272095/>
1077. Gordon SF, Clothier HJ, Morgan H, et al. Immune thrombocytopenia following immunisation with Vaxzevria ChadOx1-S (AstraZeneca) vaccine, Victoria, Australia. *Vaccine*. 2021 Nov 26;39(48):7052-7057. doi: 10.1016/j.vaccine.2021.10.030. Epub 2021 Oct 30. PMID: 34756770; PMCID: PMC8556135. <https://pubmed.ncbi.nlm.nih.gov/34756770/>
1078. Herrman E, Ghimire B, Chisti MM. Thrombotic thrombocytopenic purpura following administration of the Moderna booster vaccine. *BMJ Case Rep*. 2022 Mar 24;15(3):e247576. doi: 10.1136/bcr-2021-247576. PMID: 35332007; PMCID: PMC8948389.
1079. Welsh KJ, Baumblatt J, Chege W, et al. Thrombocytopenia including immune thrombocytopenia after receipt of mRNA COVID-19 vaccines reported to the Vaccine Adverse Event Reporting System (VAERS). *Vaccine*. 2021 Jun 8;39(25):3329-3332. doi: 10.1016/j.vaccine.2021.04.054. Epub 2021 Apr 30. PMID: 34006408; PMCID: PMC8086806. <https://pubmed.ncbi.nlm.nih.gov/34006408/>
1080. Jasaraj RB, Shrestha DB, Gaire S, et al. Immune Thrombocytopenic Purpura Following Pfizer-BioNTech COVID-19 Vaccine in an Elderly Female. *Cureus*. 2021 Aug 4;13(8):e16871. doi: 10.7759/cureus.16871. PMID: 34513446; PMCID: PMC8414938. <https://pubmed.ncbi.nlm.nih.gov/34513446/>
1081. Scavone M, Clerici B, Birocchi S, et al. Platelet activation and modulation in thrombosis with thrombocytopenia syndrome associated with ChAdOx1 nCov-19 vaccine. *Haematologica*. 2021 Dec 1;106(12):3228-3231. doi: 10.3324/haematol.2021.279345. PMID: 34474550; PMCID: PMC8634168. <https://pubmed.ncbi.nlm.nih.gov/34474550/>
1082. Malayala SV, Papudesi BN, Sharma R, et al. A Case of Idiopathic Thrombocytopenic Purpura After Booster Dose of BNT162b2 (Pfizer-Biontech) COVID-19 Vaccine. *Cureus*. 2021 Oct 23;13(10):e18985. doi: 10.7759/cureus.18985. PMID: 34820240; PMCID: PMC8607313. <https://pubmed.ncbi.nlm.nih.gov/34820240/>
1083. Abou-Ismael MY, Moser KA, Smock KJ, et al. Vaccine-induced thrombotic thrombocytopenia following Ad26.COVS vaccine in a man presenting as acute venous thromboembolism. *Am J Hematol*. 2021 Sep 1;96(9):E346-E349. doi: 10.1002/ajh.26265. Epub 2021 Jun 17. PMID: 34096082; PMCID: PMC8212083. <https://pubmed.ncbi.nlm.nih.gov/34096082/>

1084. Cuker A. Thrombosis with thrombocytopenia syndrome after COVID-19 vaccination. *Clin Adv Hematol Oncol*. 2021 Jul;19(7):446-449. PMID: 34236343. <https://pubmed.ncbi.nlm.nih.gov/34236343/>
1085. Cattaneo M. Thrombosis with Thrombocytopenia Syndrome associated with viral vector COVID-19 vaccines. *Eur J Intern Med*. 2021 Jul;89:22-24. doi: 10.1016/j.ejim.2021.05.031. Epub 2021 May 25. PMID: 34092488; PMCID: PMC8148431. <https://pubmed.ncbi.nlm.nih.gov/34092488/>
1086. Malik B, Kalantary A, Rikabi K, et al. Pulmonary embolism, transient ischaemic attack and thrombocytopenia after the Johnson & Johnson COVID-19 vaccine. *BMJ Case Rep*. 2021 Jul 14;14(7):e243975. doi: 10.1136/bcr-2021-243975. PMID: 34261635; PMCID: PMC8280905. <https://pubmed.ncbi.nlm.nih.gov/34261635/>
1087. Barral M, Arrive L, El Mouhadi-Barnier S, et al. Thromboaspiration and fibrinolysis infusion for portomesenteric thrombosis after AstraZeneca COVID-19 vaccine administration. *Intensive Care Med*. 2021 Sep;47(9):1034-1036. doi: 10.1007/s00134-021-06458-3. Epub 2021 Jun 16. PMID: 34132839; PMCID: PMC8206184. <https://pubmed.ncbi.nlm.nih.gov/34132839/>.
1088. Warkentin TE, Greinacher A. Spontaneous HIT syndrome: Knee replacement, infection, and parallels with vaccine-induced immune thrombotic thrombocytopenia. *Thromb Res*. 2021 Aug;204:40-51. doi: 10.1016/j.thromres.2021.05.018. Epub 2021 Jun 9. PMID: 34144250. <https://pubmed.ncbi.nlm.nih.gov/34144250/>
1089. Althaus K, Möller P, Uzun G, et al. Antibody-mediated procoagulant platelets in SARS-CoV-2-vaccination associated immune thrombotic thrombocytopenia. *Haematologica*. 2021 Aug 1;106(8):2170-2179. doi: 10.3324/haematol.2021.279000. PMID: 34011137; PMCID: PMC8327736. <https://pubmed.ncbi.nlm.nih.gov/34011137/>.
1090. Sangli S, Virani A, Cheronis N, et al. Thrombosis With Thrombocytopenia After the Messenger RNA-1273 Vaccine. *Ann Intern Med*. 2021 Oct;174(10):1480-1482. doi: 10.7326/L21-0244. Epub 2021 Jun 29. PMID: 34181446; PMCID: PMC8251935. <https://pubmed.ncbi.nlm.nih.gov/34181446/>
1091. Rzymiski P, Perek B, Flisiak R. Thrombotic Thrombocytopenia after COVID-19 Vaccination: In Search of the Underlying Mechanism. *Vaccines (Basel)*. 2021 May 27;9(6):559. doi: 10.3390/vaccines9060559. PMID: 34071883; PMCID: PMC8227748. <https://pubmed.ncbi.nlm.nih.gov/34071883/>
1092. Aleem A, Nadeem AJ. Coronavirus (COVID-19) Vaccine-Induced Immune Thrombotic Thrombocytopenia (VITT). 2021 Jul 18. In: *StatPearls [Internet]*. Treasure Island (FL): StatPearls Publishing; 2022 Jan—. PMID: 34033367. <https://pubmed.ncbi.nlm.nih.gov/34033367/>
1093. Abbattista M, Martinelli I, Peyvandi F. Comparison of adverse drug reactions among four COVID-19 vaccines in Europe using the EudraVigilance database: Thrombosis at unusual

- sites. *J Thromb Haemost.* 2021 Oct;19(10):2554-2558. doi: 10.1111/jth.15493. Epub 2021 Aug 25. PMID: 34375510; PMCID: PMC8420446. <https://pubmed.ncbi.nlm.nih.gov/34375510/>
1094. Bourguignon A, Arnold DM, Warkentin TE, et al. Adjunct Immune Globulin for Vaccine-Induced Immune Thrombotic Thrombocytopenia. *N Engl J Med.* 2021 Aug 19;385(8):720-728. doi: 10.1056/NEJMoa2107051. Epub 2021 Jun 9. PMID: 34107198; PMCID: PMC8362588. <https://pubmed.ncbi.nlm.nih.gov/34107198/>
1095. Fanni D, Saba L, Demontis R, et al. Vaccine-induced severe thrombotic thrombocytopenia following COVID-19 vaccination: a report of an autoptoc case and review of the literature. *Eur Rev Med Pharmacol Sci.* 2021 Aug;25(15):5063-5069. doi: 10.26355/eurrev_202108_26464. PMID: 34355379. <https://pubmed.ncbi.nlm.nih.gov/34355379/>.
1096. Park YS. Thrombosis and severe acute respiratory syndrome coronavirus 2 vaccines: vaccine-induced immune thrombotic thrombocytopenia. *Clin Exp Pediatr.* 2021 Aug;64(8):400-405. doi: 10.3345/cep.2021.00717. Epub 2021 Jun 30. PMID: 34237213; PMCID: PMC8342878. <https://pubmed.ncbi.nlm.nih.gov/34237213/>.
1097. Maayan H, Kirgner I, Gutwein O, et al. Acquired thrombotic thrombocytopenic purpura: A rare disease associated with BNT162b2 vaccine. *J Thromb Haemost.* 2021 Sep;19(9):2314-2317. doi: 10.1111/jth.15420. Epub 2021 Jul 7. PMID: 34105247; PMCID: PMC8237075. <https://pubmed.ncbi.nlm.nih.gov/34105247/>.
1098. Holm S, Kared H, Michelsen AE, et al. Immune complexes, innate immunity, and NETosis in ChAdOx1 vaccine-induced thrombocytopenia. *Eur Heart J.* 2021 Oct 14;42(39):4064-4072. doi: 10.1093/eurheartj/ehab506. PMID: 34405870; PMCID: PMC8385969. <https://pubmed.ncbi.nlm.nih.gov/34405870/>.
1099. Sookaromdee P, Wiwanitkit V. COVID-19 vaccine, immune thrombotic thrombocytopenia, jaundice, hyperviscosity: concern on cases with underlying liver problem. *Ann Hepatol.* 2021 Sep-Oct;24:100525. doi: 10.1016/j.aohep.2021.100525. PMID: 34509271; PMCID: PMC8425075. <https://pubmed.ncbi.nlm.nih.gov/34509271/>
1100. Choi PY, Hsu D, Tran HA, et al. Immune thrombocytopenia following vaccination during the COVID-19 pandemic. *Haematologica.* 2021 Aug 26. doi: 10.3324/haematol.2021.279442. Epub ahead of print. PMID: 34435486. <https://pubmed.ncbi.nlm.nih.gov/34435486/>
1101. Salih F, Schönborn L, Kohler S, et al. Vaccine-Induced Thrombocytopenia with Severe Headache. *N Engl J Med.* 2021 Nov 25;385(22):2103-2105. doi: 10.1056/NEJMc2112974. Epub 2021 Sep 15. PMID: 34525282; PMCID: PMC8522796. <https://pubmed.ncbi.nlm.nih.gov/34525282/>

1102. Gresele P, Momi S, Marcucci R, et al. Interactions of adenoviruses with platelets and coagulation and the vaccine-induced immune thrombotic thrombocytopenia syndrome. *Haematologica*. 2021 Dec 1;106(12):3034-3045. doi: 10.3324/haematol.2021.279289. PMID: 34407607; PMCID: PMC8634187.: <https://pubmed.ncbi.nlm.nih.gov/34407607/>.
1103. De Michele M, Iacobucci M, Chistolini A, et al. Malignant cerebral infarction after ChAdOx1 nCov-19 vaccination: a catastrophic variant of vaccine-induced immune thrombotic thrombocytopenia. *Nat Commun*. 2021 Aug 2;12(1):4663. doi: 10.1038/s41467-021-25010-x. PMID: 34341358; PMCID: PMC8329262. <https://pubmed.ncbi.nlm.nih.gov/34341358/>
1104. Costentin G, Ozkul-Wermester O, Triquenot A, et al. Acute Ischemic Stroke Revealing ChAdOx1 nCov-19 Vaccine-Induced Immune Thrombotic Thrombocytopenia: Impact on Recanalization Strategy. *J Stroke Cerebrovasc Dis*. 2021 Sep;30(9):105942. doi: 10.1016/j.jstrokecerebrovasdis.2021.105942. Epub 2021 Jun 24. PMID: 34175640. <https://pubmed.ncbi.nlm.nih.gov/34175640/>
1105. Lavin M, Elder PT, O'Keeffe D, et al. Vaccine-induced immune thrombotic thrombocytopenia (VITT) - a novel clinico-pathological entity with heterogeneous clinical presentations. *Br J Haematol*. 2021 Oct;195(1):76-84. doi: 10.1111/bjh.17613. Epub 2021 Jun 22. PMID: 34159588; PMCID: PMC8444927. <https://pubmed.ncbi.nlm.nih.gov/34159588/>.
1106. Gangi A, Mobashwera B, Ganczakowski M, Ayto R. Imaging and Hematologic Findings in Thrombosis and Thrombocytopenia after ChAdOx1 nCoV-19 (AstraZeneca) Vaccination. *Radiology*. 2022 Feb;302(2):319-325. doi: 10.1148/radiol.2021211546. Epub 2021 Aug 17. Erratum in: *Radiology*. 2021 Nov;301(2):E416. PMID: 34402666; PMCID: PMC8488810. <https://pubmed.ncbi.nlm.nih.gov/34402666/>
1107. Elrashdy F, Tambuwala MM, Hassan SS, et al. Autoimmunity roots of the thrombotic events after COVID-19 vaccination. *Autoimmun Rev*. 2021 Nov;20(11):102941. doi: 10.1016/j.autrev.2021.102941. Epub 2021 Sep 9. PMID: 34508917; PMCID: PMC8426137. <https://pubmed.ncbi.nlm.nih.gov/34508917/>
1108. Chen VM, Curnow JL, Tran HA, et al. Australian and New Zealand approach to diagnosis and management of vaccine-induced immune thrombosis and thrombocytopenia. *Med J Aust*. 2021 Sep 20;215(6):245-249.e1. doi: 10.5694/mja2.51229. Epub 2021 Sep 6. Erratum in: *Med J Aust*. 2021 Nov 15;215(10):453. PMID: 34490632; PMCID: PMC8661608. <https://pubmed.ncbi.nlm.nih.gov/34490632/>
1109. Sørvoll IH, Horvei KD, Ernsten SL, et al. An observational study to identify the prevalence of thrombocytopenia and anti-PF4/polyanion antibodies in Norwegian health care workers after COVID-19 vaccination. *J Thromb Haemost*. 2021 Jul;19(7):1813-1818. doi: 10.1111/jth.15352. Epub 2021 May 18. PMID: 33909350; PMCID: PMC8237070. <https://pubmed.ncbi.nlm.nih.gov/33909350/>

1110. Douxfils J, Vayne C, Pouplard C, et al. Fatal exacerbation of ChAdOx1-nCoV-19-induced thrombotic thrombocytopenia syndrome after initial successful therapy with intravenous immunoglobulins - a rationale for monitoring immunoglobulin G levels. *Haematologica*. 2021 Aug 12. doi: 10.3324/haematol.279509. Epub ahead of print. PMID: 34382387. <https://pubmed.ncbi.nlm.nih.gov/34382387/>
1111. Vaira LA, Podda L, Doneddu P, et al. Secondary thrombocytopenia after SARS-CoV-2 vaccine: Report of a case of hemorrhage and hematoma after minor oral surgery. *J Stomatol Oral Maxillofac Surg*. 2021 Jul 24;S2468-7855(21)00156-7. doi: 10.1016/j.jormas.2021.07.010. Epub ahead of print. PMID: 34314875; PMCID: PMC8310415. <https://pubmed.ncbi.nlm.nih.gov/34314875/>.
1112. Underdown MJ, Nuss R. Thrombocytopenia in a teen with sickle cell disease following COVID-19 vaccination. *Pediatr Blood Cancer*. 2021 Dec;68(12):e29271. doi: 10.1002/pbc.29271. Epub 2021 Jul 31. PMID: 34331506; PMCID: PMC8441926. <https://pubmed.ncbi.nlm.nih.gov/34331506/>
1113. Salih F, Schönborn L, Kohler S, et al. Vaccine-Induced Thrombocytopenia with Severe Headache. *N Engl J Med*. 2021 Nov 25;385(22):2103-2105. doi: 10.1056/NEJMc2112974. Epub 2021 Sep 15. PMID: 34525282; PMCID: PMC8522796. <https://pubmed.ncbi.nlm.nih.gov/34525282/>
1114. Baker AT, Boyd RJ, Sarkar D, et al. ChAdOx1 interacts with CAR and PF4 with implications for thrombosis with thrombocytopenia syndrome. *Sci Adv*. 2021 Dec 3;7(49):eabl8213. doi: 10.1126/sciadv.abl8213. Epub 2021 Dec 1. PMID: 34851659; PMCID: PMC8635433. <https://www.science.org/doi/10.1126/sciadv.abl8213>
1115. Rodriguez EVC, Bouazza FZ, Dauby N, et al. Fatal vaccine-induced immune thrombotic thrombocytopenia (VITT) post Ad26.COV2.S: first documented case outside US. *Infection*. 2021 Oct 9:1–6. doi: 10.1007/s15010-021-01712-8. Epub ahead of print. PMID: 34626338; PMCID: PMC8501343. <https://pubmed.ncbi.nlm.nih.gov/34626338/>
1116. Greinacher A, Thiele T, Warkentin TE, et al. A Prothrombotic Thrombocytopenic Disorder Resembling Heparin-Induced Thrombocytopenia Following Coronavirus-19 Vaccination. *Research Square*; 2021. DOI: 10.21203/rs.3.rs-362354/v1
1117. Santin AD. VITT after ChAdOx1 nCoV-19 Vaccination. *N Engl J Med*. 2021 Dec 2;385(23):2202-2203. doi: 10.1056/NEJMc2111026. Epub 2021 Nov 3. PMID: 34731555. <https://pubmed.ncbi.nlm.nih.gov/34731555/>
1118. Lavin M, Elder PT, O'Keeffe D, Enright H, et al. Vaccine-induced immune thrombotic thrombocytopenia (VITT) - a novel clinico-pathological entity with heterogeneous clinical presentations. *Br J Haematol*. 2021 Oct;195(1):76-84. doi: 10.1111/bjh.17613. Epub 2021 Jun 22. PMID: 34159588; PMCID: PMC8444927. <https://pubmed.ncbi.nlm.nih.gov/34159588/>

1119. Kenda J, Lovrič D, Škerget M, Milivojević N. Treatment of ChAdOx1 nCoV-19 Vaccine-Induced Immune Thrombotic Thrombocytopenia Related Acute Ischemic Stroke. *J Stroke Cerebrovasc Dis.* 2021 Nov;30(11):106072. doi: 10.1016/j.jstrokecerebrovasdis.2021.106072. Epub 2021 Aug 28. PMID: 34461442; PMCID: PMC8397593. <https://pubmed.ncbi.nlm.nih.gov/34461442/>
1120. Major A, Carll T, Chan CW, et al. Refractory vaccine-induced immune thrombotic thrombocytopenia (VITT) managed with delayed therapeutic plasma exchange (TPE). *J Clin Apher.* 2022 Feb;37(1):117-121. doi: 10.1002/jca.21945. Epub 2021 Oct 21. PMID: 34672380. <https://pubmed.ncbi.nlm.nih.gov/34672380/>.
1121. Pavord S, Scully M, Hunt BJ, et al. Clinical Features of Vaccine-Induced Immune Thrombocytopenia and Thrombosis. *N Engl J Med.* 2021 Oct 28;385(18):1680-1689. doi: 10.1056/NEJMoa2109908. Epub 2021 Aug 11. PMID: 34379914. <https://pubmed.ncbi.nlm.nih.gov/34379914/>.
1122. Hwang J, Park SH, Lee SW, et al. Predictors of mortality in thrombotic thrombocytopenia after adenoviral COVID-19 vaccination: the FAPIC score. *Eur Heart J.* 2021 Oct 14;42(39):4053-4063. doi: 10.1093/eurheartj/ehab592. PMID: 34545400; PMCID: PMC8500026. <https://pubmed.ncbi.nlm.nih.gov/34545400/>
1123. Kim G, Choi EJ, Park HS, et al. A Case Report of Immune Thrombocytopenia after ChAdOx1 nCoV-19 Vaccination. *J Korean Med Sci.* 2021 Nov 8;36(43):e306. doi: 10.3346/jkms.2021.36.e306. PMID: 34751013; PMCID: PMC8575766. <https://pubmed.ncbi.nlm.nih.gov/34751013/>.
1124. Haime MA. Concern About the Adverse Effects of Thrombocytopenia and Thrombosis After Adenovirus-Vectored COVID-19 Vaccination. *Clin Appl Thromb Hemost.* 2021 Jan-Dec;27:10760296211040110. doi: 10.1177/10760296211040110. PMID: 34541935; PMCID: PMC8642058. <https://pubmed.ncbi.nlm.nih.gov/34541935/>
1125. Blauenfeldt RA, Kristensen SR, Ernstsens SL, et al. Thrombocytopenia with acute ischemic stroke and bleeding in a patient newly vaccinated with an adenoviral vector-based COVID-19 vaccine. *J Thromb Haemost.* 2021 Jul;19(7):1771-1775. doi: 10.1111/jth.15347. Epub 2021 May 5. PMID: 33877737; PMCID: PMC8250306. <https://pubmed.ncbi.nlm.nih.gov/33877737/>
1126. Wilting FNH, Kotsopoulos AMM, Platteel ACM, et al. Intracerebral Hemorrhage and Thrombocytopenia After AstraZeneca COVID-19 Vaccine: Clinical and Diagnostic Challenges of Vaccine-Induced Thrombotic Thrombocytopenia. *Cureus.* 2021 Sep 1;13(9):e17637. doi: 10.7759/cureus.17637. PMID: 34646685; PMCID: PMC8486363. <https://pubmed.ncbi.nlm.nih.gov/34646685/>
1127. Crea F. Thrombosis in peripheral artery disease and thrombotic thrombocytopenia after adenoviral COVID-19 vaccination. *Eur Heart J.* 2021 Oct 14;42(39):3995-3999. doi:

- 10.1093/eurheartj/ehab712. PMID: 34649281; PMCID: PMC8524636. <https://pubmed.ncbi.nlm.nih.gov/34649281/>.
1128. Bennett C, Chambers LM, Son J, et al. Newly diagnosed immune thrombocytopenia in a pregnant patient after coronavirus disease 2019 vaccination. *J Obstet Gynaecol Res.* 2021 Nov;47(11):4077-4080. doi: 10.1111/jog.14978. Epub 2021 Aug 22. PMID: 34420249; PMCID: PMC8661984. <https://pubmed.ncbi.nlm.nih.gov/34420249/>
1129. Dalan R, Boehm BO. Thrombosis post COVID-19 vaccinations: Potential link to ACE pathways. *Thromb Res.* 2021 Oct;206:137-138. doi: 10.1016/j.thromres.2021.08.018. Epub 2021 Aug 28. PMID: 34479129; PMCID: PMC8397505. <https://pubmed.ncbi.nlm.nih.gov/34479129/>
1130. Underdown MJ, Nuss R. Thrombocytopenia in a teen with sickle cell disease following COVID-19 vaccination. *Pediatr Blood Cancer.* 2021 Dec;68(12):e29271. doi: 10.1002/pbc.29271. Epub 2021 Jul 31. PMID: 34331506; PMCID: PMC8441926. <https://pubmed.ncbi.nlm.nih.gov/34331506/>
1131. Kulkarni PA, Prasad V. Understanding risk of thrombosis with thrombocytopenia syndrome after Ad26.COV2.S vaccination. *Front Med.* 2021 Dec;15(6):938-941. doi: 10.1007/s11684-021-0895-9. Epub 2021 Sep 30. PMID: 34595694; PMCID: PMC8482953. <https://pubmed.ncbi.nlm.nih.gov/34595694/>
1132. Gardellini A, Guidotti F, Maino E, et al. Severe immune thrombocytopenia after COVID-19 vaccination: Report of four cases and review of the literature. *Blood Cells Mol Dis.* 2021 Dec;92:102615. doi: 10.1016/j.bcmd.2021.102615. Epub 2021 Oct 7. PMID: 34653943; PMCID: PMC8494992. <https://pubmed.ncbi.nlm.nih.gov/34653943/>.
1133. Dijk WEMV, Schutgens REG. Relapse of immune thrombocytopenia after COVID-19 vaccination. *Eur J Haematol.* 2022 Jan;108(1):84-85. doi: 10.1111/ejh.13713. Epub 2021 Oct 17. PMID: 34591991; PMCID: PMC8652889. <https://pubmed.ncbi.nlm.nih.gov/34591991/>
1134. Violi F, Cammisotto V, Pastori D, et al. Thrombosis in pre- and post-vaccination phase of COVID-19. *Eur Heart J Suppl.* 2021 Oct 8;23(Suppl E):E184-E188. doi: 10.1093/eurheartj/suab118. PMID: 34650382; PMCID: PMC8503327. <https://pubmed.ncbi.nlm.nih.gov/34650382/>
1135. Stassi C, Mondello C, Baldino G, et al. An Insight into the Role of Postmortem Immunohistochemistry in the Comprehension of the Inflammatory Pathophysiology of COVID-19 Disease and Vaccine-Related Thrombotic Adverse Events: A Narrative Review. *Int J Mol Sci.* 2021 Nov 6;22(21):12024. doi: 10.3390/ijms222112024. PMID: 34769454; PMCID: PMC8584583. <https://pubmed.ncbi.nlm.nih.gov/34769454/>
1136. John NA, John J, Kamble P, et al. COVID 19 vaccine in patients of hypercoagulable disorders: a clinical perspective. *Horm Mol Biol Clin Investig.* 2021 Nov 17. doi:

- 10.1515/hmbci-2021-0037. Epub ahead of print. PMID: 34786893. <https://pubmed.ncbi.nlm.nih.gov/34786893/>
1137. Graf T, Thiele T, Klingebiel R, et al. Immediate high-dose intravenous immunoglobulins followed by direct thrombin-inhibitor treatment is crucial for survival in Sars-Covid-19-adenoviral vector vaccine-induced immune thrombotic thrombocytopenia VITT with cerebral sinus venous and portal vein thrombosis. *J Neurol.* 2021 Dec;268(12):4483-4485. doi: 10.1007/s00415-021-10599-2. Epub 2021 May 22. PMID: 34023956; PMCID: PMC8140563. <https://pubmed.ncbi.nlm.nih.gov/34023956/>.
1138. Ali Waggiallah H. Thrombosis Formation after COVID-19 Vaccination Immunological Aspects: Review Article. *Saudi J Biol Sci.* 2021 Sep 30. doi: 10.1016/j.sjbs.2021.09.065. Epub ahead of print. PMID: 34629931; PMCID: PMC8489518. <https://pubmed.ncbi.nlm.nih.gov/34629931/>
1139. Gangi A, Mobashwera B, Ganczakowski M, et al. Imaging and Hematologic Findings in Thrombosis and Thrombocytopenia after ChAdOx1 nCoV-19 (AstraZeneca) Vaccination. *Radiology.* 2022 Feb;302(2):319-325. doi: 10.1148/radiol.2021211546. Epub 2021 Aug 17. Erratum in: *Radiology.* 2021 Nov;301(2):E416. PMID: 34402666; PMCID: PMC8488810. <https://pubmed.ncbi.nlm.nih.gov/34402666/>
1140. Kircheis R. Coagulopathies after Vaccination against SARS-CoV-2 May Be Derived from a Combined Effect of SARS-CoV-2 Spike Protein and Adenovirus Vector-Triggered Signaling Pathways. *Int J Mol Sci.* 2021 Oct 6;22(19):10791. doi: 10.3390/ijms221910791. PMID: 34639132; PMCID: PMC8509779. <https://pubmed.ncbi.nlm.nih.gov/34639132/>
1141. Ifeanyi N, Chinenye N, Oladiran O, et al. Isolated pulmonary embolism following COVID vaccination: 2 case reports and a review of post-acute pulmonary embolism complications and follow-up. *J Community Hosp Intern Med Perspect.* 2021 Nov 15;11(6):877-879. doi: 10.1080/20009666.2021.1990825. PMID: 34804412; PMCID: PMC8604520. <https://pubmed.ncbi.nlm.nih.gov/34804412/>
1142. Endo B, Bahamon S, Martínez-Pulgarín DF. Central retinal vein occlusion after mRNA SARS-CoV-2 vaccination: A case report. *Indian J Ophthalmol.* 2021 Oct;69(10):2865-2866. doi: 10.4103/ijo.IJO_1477_21. PMID: 34571653; PMCID: PMC8597478. <https://pubmed.ncbi.nlm.nih.gov/34571653/>.
1143. Günther A, Brämer D, Pletz MW, et al. Complicated Long Term Vaccine Induced Thrombotic Immune Thrombocytopenia-A Case Report. *Vaccines (Basel).* 2021 Nov 17;9(11):1344. doi: 10.3390/vaccines9111344. PMID: 34835275; PMCID: PMC8622649. <https://pubmed.ncbi.nlm.nih.gov/34835275/>.
1144. Uaprasert N, Watanaboonyongcharoen P, Vichitrachaneekorn R, et al. Prevalence of thrombocytopenia, anti-platelet factor 4 antibodies and D-dimer elevation in Thai people After ChAdOx1 nCoV-19 vaccination. *Res Pract Thromb Haemost.* 2021 Sep

- 18;5(6):e12580. doi: 10.1002/rth2.12580. PMID: 34568726; PMCID: PMC8449289. <https://pubmed.ncbi.nlm.nih.gov/34568726/>
1145. Ceschia N, Scheggi V, Gori AM, et al. R. Diffuse prothrombotic syndrome after ChAdOx1 nCoV-19 vaccine administration: a case report. *J Med Case Rep.* 2021 Oct 6;15(1):496. doi: 10.1186/s13256-021-03083-y. PMID: 34615534; PMCID: PMC8493358. <https://pubmed.ncbi.nlm.nih.gov/34615534/>
1146. Joob B, Wiwanitkit V. Change of blood viscosity after COVID-19 vaccination: estimation for persons with underlying metabolic syndrome. *Int J Physiol Pathophysiol Pharmacol.* 2021 Oct 15;13(5):148-151. PMID: 34868465; PMCID: PMC8611240. <https://pubmed.ncbi.nlm.nih.gov/34868465/>
1147. Ramdeny S, Lang A, Al-Izzi S, et al. Management of a patient with a rare congenital limb malformation syndrome after SARS-CoV-2 vaccine-induced thrombosis and thrombocytopenia (VITT). *Br J Haematol.* 2021 Nov;195(3):299. doi: 10.1111/bjh.17619. Epub 2021 Jul 9. PMID: 34097311; PMCID: PMC8239676. <https://pubmed.ncbi.nlm.nih.gov/34097311/>
1148. Giovane R, Campbell J. Bilateral Thalamic Stroke: A Case of COVID-19 Vaccine-Induced Immune Thrombotic Thrombocytopenia (VITT) or a Coincidence Due to Underlying Risk Factors? *Cureus.* 2021 Oct 22;13(10):e18977. doi: 10.7759/cureus.18977. PMID: 34820232; PMCID: PMC8606181. <https://pubmed.ncbi.nlm.nih.gov/34820232/>.
1149. Dhoot R, Kansal A, Handran C, et al. Thrombocytopenia and splanchnic thrombosis after Ad26.COV2.S vaccination successfully treated with transjugular intrahepatic portosystemic shunting and thrombectomy. *Am J Hematol.* 2021 Sep 1;96(9):1180-1182. doi: 10.1002/ajh.26258. Epub 2021 Jun 14. PMID: 34057234; PMCID: PMC8212098. <https://onlinelibrary.wiley.com/doi/10.1002/ajh.26258>
1150. Qasim H, Ali E, Yassin MA. Immune thrombocytopenia relapse post covid-19 vaccine in young male patient. *IDCases.* 2021;26:e01344. doi: 10.1016/j.idcr.2021.e01344. Epub 2021 Nov 17. PMID: 34804803; PMCID: PMC8595970. <https://pubmed.ncbi.nlm.nih.gov/34804803/>.
1151. Krajewski PK, Szepietowski JC. Immune thrombocytopenic purpura associated with COVID-19 Pfizer-BioNTech BNT16B2b2 mRNA vaccine. *J Eur Acad Dermatol Venereol.* 2021 Oct;35(10):e626-e627. doi: 10.1111/jdv.17444. Epub 2021 Jun 16. PMID: 34077572; PMCID: PMC8242419. <https://pubmed.ncbi.nlm.nih.gov/34077572/>
1152. Cooper KM, Switzer B. Severe immune thrombocytopenic purpura after SARS-CoV-2 vaccine. *Arch Clin Cases.* 2021 Oct 27;8(2):31-36. doi: 10.22551/2021.31.0802.10182. PMID: 34754937; PMCID: PMC8565691. <https://pubmed.ncbi.nlm.nih.gov/34754937/>
1153. Tobaiqy M, MacLure K, Elkout H, et al. Thrombotic Adverse Events Reported for Moderna, Pfizer and Oxford-AstraZeneca COVID-19 Vaccines: Comparison of Occurrence

- and Clinical Outcomes in the EudraVigilance Database. *Vaccines* (Basel). 2021 Nov 15;9(11):1326. doi: 10.3390/vaccines9111326. PMID: 34835256; PMCID: PMC8624459. <https://pubmed.ncbi.nlm.nih.gov/34835256/>
1154. Calcaterra G, Bassareo PP, Barilla F, et al. Concerning the unexpected prothrombotic state following some coronavirus disease 2019 vaccines. *J Cardiovasc Med* (Hagerstown). 2022 Feb 1;23(2):71-74. doi: 10.2459/JCM.0000000000001232. PMID: 34366403. <https://www.ncbi.nlm.nih.gov/pubmed/34366403>
1155. Chang JC, Hawley HB. Vaccine-Associated Thrombocytopenia and Thrombosis: Venous Endotheliopathy Leading to Venous Combined Micro-Macrothrombosis. *Medicina* (Kaunas). 2021 Oct 26;57(11):1163. doi: 10.3390/medicina57111163. PMID: 34833382; PMCID: PMC8621006. <https://www.ncbi.nlm.nih.gov/pubmed/34833382>
1156. Helms JM, Ansteatt KT, Roberts JC, et al. Severe, Refractory Immune Thrombocytopenia Occurring After SARS-CoV-2 Vaccine. *J Blood Med*. 2021 Apr 6;12:221-224. doi: 10.2147/JBM.S307047. PMID: 33854395; PMCID: PMC8040692. <https://www.ncbi.nlm.nih.gov/pubmed/33854395>
1157. Lee EJ, Cines DB, Gernsheimer T, et al. Thrombocytopenia following Pfizer and Moderna SARS-CoV-2 vaccination. *Am J Hematol*. 2021 May 1;96(5):534-537. doi: 10.1002/ajh.26132. Epub 2021 Mar 9. PMID: 33606296; PMCID: PMC8014568. <https://www.ncbi.nlm.nih.gov/pubmed/33606296>
1158. Sangli S, Virani A, Cheronis N, et al. Thrombosis With Thrombocytopenia After the Messenger RNA-1273 Vaccine. *Ann Intern Med*. 2021 Oct;174(10):1480-1482. doi: 10.7326/L21-0244. Epub 2021 Jun 29. PMID: 34181446; PMCID: PMC8251935. <https://pubmed.ncbi.nlm.nih.gov/34181446/>
1159. Banerjee S, Sandhu M, Tonzi E, et al. Immune-Mediated Thrombocytopenia Associated With Ad26.COVS.2.S (Janssen; Johnson & Johnson) Vaccine. *Am J Ther*. 2021 Aug 20;28(5):e604-e606. doi: 10.1097/MJT.0000000000001431. PMID: 34469919; PMCID: PMC8415511. <https://pubmed.ncbi.nlm.nih.gov/34469919/>.
1160. Al-Samkari H, Leaf RK, Goodarzi K. Transient Thrombocytopenia With Glycoprotein-Specific Platelet Autoantibodies After Ad26.COVS.2.S Vaccination: A Case Report. *Ann Intern Med*. 2021 Nov;174(11):1632-1633. doi: 10.7326/L21-0427. Epub 2021 Sep 14. PMID: 34516272; PMCID: PMC8500336. <https://pubmed.ncbi.nlm.nih.gov/34516272/>.
1161. Sarkar M, Madabhavi IV, Quy PN, Govindagoudar MB. COVID-19 vaccine-induced immune thrombotic thrombocytopenia: A review. *Ann Thorac Med*. 2022 Jan-Mar;17(1):1-13. doi: 10.4103/atm.atm_404_21. Epub 2022 Jan 14. PMID: 35198043; PMCID: PMC8809131. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8809131/>
1162. Actis GC, Ribaldone DG, Pellicano R. COVID vaccine's hot problems: erratic serious blood clotting, ill-defined prion-like reactogenicity of the spike, unclear roles of other factors.

- Minerva Med. 2021 Dec;112(6):695-697. doi: 10.23736/S0026-4806.21.07769-7. PMID: 35168305.
1163. Elberry MH, Abdelgawad HAH, Hamdallah A, Abdella WS, Ahmed AS, Ghaith HS, Negida A. A systematic review of vaccine-induced thrombotic thrombocytopenia in individuals who received COVID-19 adenoviral-vector-based vaccines. *J Thromb Thrombolysis*. 2022 Feb 14:1–26. doi: 10.1007/s11239-021-02626-w. Epub ahead of print. PMID: 35157188; PMCID: PMC8853120. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8853120/>
1164. Castan M, Damin-Pernik M, Thiéry G, Page D, Smadja DM, Bertoletti L. A case report of vaccine-induced immune thrombocytopenia and thrombosis syndrome after Ad26.COVS vaccine (Janssen/Johnson & Johnson). *Therapie*. 2022 Jan 31:S0040-5957(22)00016-6. doi: 10.1016/j.therap.2022.01.014. Epub ahead of print. PMID: 35135671; PMCID: PMC8817724. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8817724/>
1165. See I, Lale A, Marquez P, et al. Case Series of Thrombosis With Thrombocytopenia Syndrome After COVID-19 Vaccination-United States, December 2020 to August 2021. *Ann Intern Med*. 2022 Jan 18:M21-4502. doi: 10.7326/M21-4502. Epub ahead of print. PMID: 35038274; PMCID: PMC8787833. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8787833/>
1166. Feldman PA. Proposed mechanism for rare thrombotic events after use of some Covid-19 vaccines. *Med Hypotheses*. 2022 Jan 3:110756. doi: 10.1016/j.mehy.2021.110756. Epub ahead of print. PMID: 35002021; PMCID: PMC8722443. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8722443/>
1167. Curcio R, Gandolfo V, Alcidi R, Giacomino L, Campanella T, Casarola G, Rossi R, Chiatti L, D'Abbondanza M, Commissari R, Gresele P, Pucci G, Vaudo G. Vaccine-induced massive pulmonary embolism and thrombocytopenia following a single dose of Janssen Ad26.COVS vaccination. *Int J Infect Dis*. 2022 Mar;116:154-156. doi: 10.1016/j.ijid.2021.12.345. Epub 2022 Jan 2. PMID: 34986404; PMCID: PMC8720302. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8720302/>
1168. Finsterer J, Zarrouk S. Post-SARS-CoV-2 vaccination venous sinus thrombosis: a literature review of 308 cases. *Egypt J Neurol Psychiatr Neurosurg*. 2021;57(1):179. doi: 10.1186/s41983-021-00431-z. Epub 2021 Dec 20. PMID: 34955632; PMCID: PMC8686094. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8686094/>
1169. Liu Y, Shao Z, Wang H. SARS-CoV-2 vaccine-induced immune thrombotic thrombocytopenia. *Thromb Res*. 2022 Jan;209:75-79. doi: 10.1016/j.thromres.2021.12.002. Epub 2021 Dec 6. PMID: 34894531; PMCID: PMC8647389. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8647389/>
1170. Waqar U, Ahmed S, Gardezi SMHA, Tahir MS, Abidin ZU, Hussain A, Ali N, Mahmood SF. Thrombosis with Thrombocytopenia Syndrome After Administration of AZD1222 or

- Ad26.COVS Vaccine for COVID-19: A Systematic Review. *Clin Appl Thromb Hemost.* 2021 Jan-Dec;27:10760296211068487. doi: 10.1177/10760296211068487. PMID: 34907794; PMCID: PMC8689609.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8689609/>
1171. Mathew C, Zumberg M. Clots in unusual places: lots of stress, limited data, critical decisions. *Hematology Am Soc Hematol Educ Program.* 2021 Dec 10;2021(1):92-99. doi: 10.1182/hematology.2021000237. PMID: 34889361; PMCID: PMC8791155.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8791155/>
1172. Douxfils J, Vayne C, Pouplard C, et al. Fatal exacerbation of ChadOx1-nCoV-19-induced thrombotic thrombocytopenia syndrome after initial successful therapy with intravenous immunoglobulins - a rationale for monitoring immunoglobulin G levels. *Haematologica.* 2021 Dec 1;106(12):3249-3252. doi: 10.3324/haematol.2021.279509. PMID: 34847660; PMCID: PMC8634183.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8634183/>
1173. Abrignani MG, Murrone A, De Luca L, et al. COVID-19, vaccini ed eventi trombotici [COVID-19, vaccines, and thrombotic events]. *G Ital Cardiol (Rome).* 2021 Dec;22(12):969-980. Italian. doi: 10.1714/3698.36874. PMID: 34845397.
<https://pubmed.ncbi.nlm.nih.gov/34845397/>
1174. van Dijk MMH, Veldman HD, Aarts F, Barten DG, van den Bergh JP, Dielis AWJH. A case of unusual mild clinical presentation of COVID-19 vaccine-induced immune thrombotic thrombocytopenia with splanchnic vein thrombosis. *Ann Hepatol.* 2022 Jan-Feb;27(1):100590. doi: 10.1016/j.aohp.2021.100590. Epub 2021 Nov 27. PMID: 34843991; PMCID: PMC8626153.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8626153/>
1175. Bhan C, Bheesham N, Shakuntulla F, Sharma M, Sun C, Weinstein M. An unusual presentation of acute deep vein thrombosis after the Moderna COVID-19 vaccine-a case report. *Ann Transl Med.* 2021 Oct;9(20):1605. doi: 10.21037/atm-21-2772. PMID: 34790811; PMCID: PMC8576696.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8576696/>
1176. Saleh A, Collins J. Case study of thrombosis and thrombocytopenia syndrome following administration of the AstraZeneca COVID-19 vaccine. *Aust J Gen Pract.* 2021 Nov 12;50. PMID: 34781321. <https://pubmed.ncbi.nlm.nih.gov/34781321/>
1177. Stassi C, Mondello C, Baldino G, Cardia L, Asmundo A, Ventura Spagnolo E. An Insight into the Role of Postmortem Immunohistochemistry in the Comprehension of the Inflammatory Pathophysiology of COVID-19 Disease and Vaccine-Related Thrombotic Adverse Events: A Narrative Review. *Int J Mol Sci.* 2021 Nov 6;22(21):12024. doi: 10.3390/ijms222112024. PMID: 34769454; PMCID: PMC8584583.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8584583/>

1178. Soltani Hekmat A, Javanmardi K. Possible Risk of Thrombotic Events following Oxford-AstraZeneca COVID-19 Vaccination in Women Receiving Estrogen. *Biomed Res Int.* 2021 Oct 25;2021:7702863. doi: 10.1155/2021/7702863. PMID: 34734086; PMCID: PMC8560237. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8560237/>
1179. Jafri A, Prieto A, Gashau H, Bartlett JD. Thrombotic thrombocytopenia following ChAdOx1 nCov-19 vaccination. *Acute Med.* 2021;20(3):223-226. PMID: 34679140. <https://pubmed.ncbi.nlm.nih.gov/34679140/>
1180. Hussain H, Sehring M, Soriano S. Deep Venous Thrombosis after Ad26.COV2.S Vaccination in Adult Male. *Case Rep Crit Care.* 2021 Oct 14;2021:7682655. doi: 10.1155/2021/7682655. PMID: 34659839; PMCID: PMC8516572. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8516572/>
1181. Famularo G. COVID-19 vaccines and thrombosis. *Intern Emerg Med.* 2021 Oct 12:1-2. doi: 10.1007/s11739-021-02823-8. Epub ahead of print. PMID: 34637083; PMCID: PMC8505472. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8505472/>
1182. Goereci Y, Kleineberg NN, Madlener M, Neuschmelting H, Fink GR, Warnke C, Stetefeld H. Successful treatment of thromboses of major arteries after ChAdOx1 nCov-19 vaccination. *Neurol Res Pract.* 2021 Oct 4;3(1):52. doi: 10.1186/s42466-021-00151-y. PMID: 34602097; PMCID: PMC8487755. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8487755/>
1183. Kennedy VE, Wong CC, Hong JM, Peng T, Brondfield S, Reilly LM, Cornett P, Leavitt AD. VITT following Ad26.COV2.S vaccination presenting without radiographically demonstrable thrombosis. *Blood Adv.* 2021 Nov 23;5(22):4662-4665. doi: 10.1182/bloodadvances.2021005388. PMID: 34587255; PMCID: PMC8483979. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8483979/>
1184. Gaunt ER, Mabbott NA. The clinical correlates of vaccine-induced immune thrombotic thrombocytopenia after immunisation with adenovirus vector-based SARS-CoV-2 vaccines. *Immunother Adv.* 2021 Aug 17;1(1):ltab019. doi: 10.1093/immadv/ltab019. PMID: 34557868; PMCID: PMC8385946. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8385946/>
1185. Page D, Zhu N, Sawler D, Sun HW, Turley E, Pai M, Wu C. Vaccine-induced immune thrombotic thrombocytopenia presenting with normal platelet count. *Res Pract Thromb Haemost.* 2021 Sep 14;5(6):e12596. doi: 10.1002/rth2.12596. PMID: 34532632; PMCID: PMC8440941. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8440941/>
1186. Yamamoto K. Risk of heparinoid use in cosmetics and moisturizers in individuals vaccinated against severe acute respiratory syndrome coronavirus 2. *Thromb J.* 2021 Sep 16;19(1):67. doi: 10.1186/s12959-021-00320-8. PMID: 34530838; PMCID: PMC8443895. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8443895/>

1187. Alkindi S, Elsadek RA, Pathare AV. Safety Warning for ChAdOx1 nCov-19 Vaccine in Patients with Sickle Cell Disease. *Mediterr J Hematol Infect Dis*. 2021 Sep 1;13(1):e2021059. doi: 10.4084/MJHID.2021.059. PMID: 34527211; PMCID: PMC8425344. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8425344/>
1188. Khuapinant A, Rungjirajittranon T, Suwanawiboon B, Chinthammitr Y, Ruchutrakool T. Successful venous thromboprophylaxis in a patient with vaccine-induced immune thrombotic thrombocytopenia (VITT): a case report of the first reported case in Thailand. *Thromb J*. 2021 Sep 8;19(1):65. doi: 10.1186/s12959-021-00317-3. PMID: 34496889; PMCID: PMC8424400. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8424400/>
1189. McFadyen JD, Peter K. The known knowns and known unknowns of vaccine-induced thrombotic thrombocytopenia. *Cardiovasc Res*. 2021 Sep 28;117(11):e147-e150. doi: 10.1093/cvr/cvab275. PMID: 34472568; PMCID: PMC8499896. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8499896/>
1190. Al Rawahi B, BaTaher H, Jaffer Z, Al-Balushi A, Al-Mazrouqi A, Al-Balushi N. Vaccine-induced immune thrombotic thrombocytopenia following AstraZeneca (ChAdOx1 nCOV19) vaccine-A case report. *Res Pract Thromb Haemost*. 2021 Aug 24;5(6):e12578. doi: 10.1002/rth2.12578. PMID: 34466769; PMCID: PMC8385181. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8385181/>
1191. Islam A, Bashir MS, Joyce K, Rashid H, Laher I, Elshazly S. An Update on COVID-19 Vaccine Induced Thrombotic Thrombocytopenia Syndrome and Some Management Recommendations. *Molecules*. 2021 Aug 18;26(16):5004. doi: 10.3390/molecules26165004. PMID: 34443589; PMCID: PMC8400504. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8400504/>
1192. Wiedmann M, Skattør T, Stray-Pedersen A, et al. Vaccine Induced Immune Thrombotic Thrombocytopenia Causing a Severe Form of Cerebral Venous Thrombosis With High Fatality Rate: A Case Series. *Front Neurol*. 2021 Jul 30;12:721146. doi: 10.3389/fneur.2021.721146. PMID: 34393988; PMCID: PMC8363077. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8363077/>
1193. Huang CT, Hsu SY, Wang CH, Tseng WJ, et al. Double high-dose immunoglobulin for ChAdOx1 nCov-19 vaccine-induced immune thrombotic thrombocytopenia. *Thromb Res*. 2021 Oct;206:14-17. doi: 10.1016/j.thromres.2021.07.017. Epub 2021 Aug 4. PMID: 34375780; PMCID: PMC8336974. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8336974/>
1194. Lundstrom K, Barh D, Uhal BD, et al. COVID-19 Vaccines and Thrombosis-Roadblock or Dead-End Street? *Biomolecules*. 2021 Jul 13;11(7):1020. doi: 10.3390/biom11071020. PMID: 34356644; PMCID: PMC8301964. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8301964/>

1195. Othman M, Baker AT, Gupalo E, et al. To clot or not to clot? Ad is the question-Insights on mechanisms related to vaccine-induced thrombotic thrombocytopenia. *J Thromb Haemost.* 2021 Nov;19(11):2845-2856. doi: 10.1111/jth.15485. Epub 2021 Aug 23. PMID: 34351057; PMCID: PMC8420166. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8420166/>
1196. Mauriello A, Scimeca M, Amelio I, et al. Thromboembolism after COVID-19 vaccine in patients with preexisting thrombocytopenia. *Cell Death Dis.* 2021 Aug 3;12(8):762. doi: 10.1038/s41419-021-04058-z. PMID: 34344867; PMCID: PMC8328816. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8328816/>
1197. Lin CY, Wang CH, Hsiao PJ. Unusual Fever, Headache, and Abdominal Pain in a Healthy Woman. *Gastroenterology.* 2021 Nov;161(5):1387-1389. doi: 10.1053/j.gastro.2021.07.039. Epub 2021 Jul 31. PMID: 34339677; PMCID: PMC8432630. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8432630/>
1198. Bhuyan P, Medin J, da Silva HG, Yadavalli M, Shankar NK, Mullerova H, Arnold M, Nord M. Very rare thrombosis with thrombocytopenia after second AZD1222 dose: a global safety database analysis. *Lancet.* 2021 Aug 14;398(10300):577-578. doi: 10.1016/S0140-6736(21)01693-7. Epub 2021 Jul 27. PMID: 34329583. <https://pubmed.ncbi.nlm.nih.gov/34329583/>
1199. Arepally GM, Ortel TL. Vaccine-induced immune thrombotic thrombocytopenia: what we know and do not know. *Blood.* 2021 Jul 29;138(4):293-298. doi: 10.1182/blood.2021012152. Epub 2021 Jun 1. PMID: 34323940; PMCID: PMC8172307. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8172307/>
1200. Cari L, Alhosseini MN, Fiore P, et al. Cardiovascular, neurological, and pulmonary events following vaccination with the BNT162b2, ChAdOx1 nCoV-19, and Ad26.COV2.S vaccines: An analysis of European data. *J Autoimmun.* 2021 Dec;125:102742. doi: 10.1016/j.jaut.2021.102742. Epub 2021 Oct 26. PMID: 34710832; PMCID: PMC8547775. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8547775/>
1201. Bano F, Badugama B, Chandra D. Thrombosis and thrombocytopenia after ChAdOx1 nCoV-19 vaccination: a single UK centre experience. *BMJ Case Rep.* 2021 Jul 13;14(7):e243894. doi: 10.1136/bcr-2021-243894. PMID: 34257129; PMCID: PMC8278891. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8278891/>
1202. Novak N, Tordesillas L, Cabanillas B. Adverse rare events to vaccines for COVID-19: From hypersensitivity reactions to thrombosis and thrombocytopenia. *Int Rev Immunol.* 2021 Jul 12:1-10. doi: 10.1080/08830185.2021.1939696. Epub ahead of print. PMID: 34251972; PMCID: PMC8290371. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8290371/>
1203. Sánchez van Kammen M, Heldner MR, Brodard J, et al. Frequency of Thrombocytopenia and Platelet Factor 4/Heparin Antibodies in Patients With Cerebral Venous Sinus

- Thrombosis Prior to the COVID-19 Pandemic. *JAMA*. 2021 Jul 27;326(4):332-338. doi: 10.1001/jama.2021.9889. PMID: 34213527; PMCID: PMC8317004. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8317004/>
1204. Suvvari TK, Rajesh E, D Silva RG, Corriero AC, Kutikuppala LVS. SARS-CoV-2 vaccine-induced prothrombotic immune thrombocytopenia: Promoting awareness to improve patient-doctor trust. *J Med Virol*. 2021 Oct;93(10):5721-5723. doi: 10.1002/jmv.27176. Epub 2021 Jul 11. PMID: 34232526; PMCID: PMC8427046. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8427046/>
1205. Choi PY. Thrombotic Thrombocytopenia after ChAdOx1 nCoV-19 Vaccination. *N Engl J Med*. 2021 Jul 15;385(3):e11. doi: 10.1056/NEJMc2107227. Epub 2021 Jun 16. PMID: 34133852. <https://pubmed.ncbi.nlm.nih.gov/34133852/>
1206. Hocking J, Chunilal SD, Chen VM, Brighton T, Nguyen J, Tan J, Ting SB, Tran H. The first known case of vaccine-induced thrombotic thrombocytopenia in Australia. *Med J Aust*. 2021 Jul;215(1):19-20.e1. doi: 10.5694/mja2.51135. Epub 2021 Jun 11. PMID: 34117641; PMCID: PMC8447148. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8447148/>
1207. Umbrello M, Brena N, Vercelli R, et al. Successful treatment of acute spleno-portomesenteric vein thrombosis after ChAdOx1 nCoV-19 vaccine. A case report. *J Crit Care*. 2021 Oct;65:72-75. doi: 10.1016/j.jcrc.2021.05.021. Epub 2021 Jun 4. PMID: 34111682. <https://pubmed.ncbi.nlm.nih.gov/34111682/>
1208. Takuva S, Takalani A, Garrett N, et al. Thromboembolic Events in the South African Ad26.COVS Vaccine Study. *N Engl J Med*. 2021 Aug 5;385(6):570-571. doi: 10.1056/NEJMc2107920. Epub 2021 Jun 2. PMID: 34077639; PMCID: PMC8190951. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8190951/>
1209. Kantarcioglu B, Iqbal O, Walenga JM, et al. An Update on the Pathogenesis of COVID-19 and the Reportedly Rare Thrombotic Events Following Vaccination. *Clin Appl Thromb Hemost*. 2021 Jan-Dec;27:10760296211021498. doi: 10.1177/10760296211021498. PMID: 34060379; PMCID: PMC8173993. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8173993/>
1210. Dotan A, Shoenfeld Y. Perspectives on vaccine induced thrombotic thrombocytopenia. *J Autoimmun*. 2021 Jul;121:102663. doi: 10.1016/j.jaut.2021.102663. Epub 2021 May 18. PMID: 34020254; PMCID: PMC8129886. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8129886/>
1211. McCrae KR. Thrombotic thrombocytopenia due to SARS-CoV-2 vaccination. *Cleve Clin J Med*. 2021 May 6. doi: 10.3949/ccjm.88a.ccc078. Epub ahead of print. PMID: 33958344. <https://pubmed.ncbi.nlm.nih.gov/33958344/>
1212. Elalamy I, Gerotziapas G, Alamowitch S, et al; Scientific Reviewer Committee. SARS-CoV-2 Vaccine and Thrombosis: An Expert Consensus on Vaccine-Induced Immune Thrombotic

- Thrombocytopenia. *Thromb Haemost.* 2021 Aug;121(8):982-991. doi: 10.1055/a-1499-0119. Epub 2021 May 4. PMID: 33946120; PMCID: PMC8322589.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8322589/>
1213. Angeli F, Spanevello A, Reboldi G, Visca D, Verdecchia P. SARS-CoV-2 vaccines: Lights and shadows. *Eur J Intern Med.* 2021 Jun;88:1-8. doi: 10.1016/j.ejim.2021.04.019. Epub 2021 Apr 30. PMID: 33966930; PMCID: PMC8084611.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8084611/>
1214. MacNeil JR, Su JR, Broder KR, et al. Updated Recommendations from the Advisory Committee on Immunization Practices for Use of the Janssen (Johnson & Johnson) COVID-19 Vaccine After Reports of Thrombosis with Thrombocytopenia Syndrome Among Vaccine Recipients - United States, April 2021. *MMWR Morb Mortal Wkly Rep.* 2021 Apr 30;70(17):651-656. doi: 10.15585/mmwr.mm7017e4. PMID: 33914723; PMCID: PMC8084127. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8084127/>
1215. Parums DV. Editorial: SARS-CoV-2 mRNA Vaccines and the Possible Mechanism of Vaccine-Induced Immune Thrombotic Thrombocytopenia (VITT). *Med Sci Monit.* 2021 Apr 26;27:e932899. doi: 10.12659/MSM.932899. Erratum in: *Med Sci Monit.* 2021 May 05;27:e932986. PMID: 33900279; PMCID: PMC8086413.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8086413/>
1216. Thaler J, Ay C, Gleixner KV, Hauswirth AW, Cacioppo F, Grafeneder J, Quehenberger P, Pabinger I, Knöbl P. Successful treatment of vaccine-induced prothrombotic immune thrombocytopenia (VIPIT). *J Thromb Haemost.* 2021 Jul;19(7):1819-1822. doi: 10.1111/jth.15346. Epub 2021 Jun 11. PMID: 33877735; PMCID: PMC8362082.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8362082/>
1217. Muster V, Gary T, Raggam RB, Wöfler A, Brodmann M. Pulmonary embolism and thrombocytopenia following ChAdOx1 vaccination. *Lancet.* 2021 May 15;397(10287):1842. doi: 10.1016/S0140-6736(21)00871-0. Epub 2021 Apr 14. PMID: 33864749. <https://pubmed.ncbi.nlm.nih.gov/33864749/>
1218. Hunter PR. Thrombosis after covid-19 vaccination. *BMJ.* 2021 Apr 14;373:n958. doi: 10.1136/bmj.n958. PMID: 33853865. <https://pubmed.ncbi.nlm.nih.gov/33853865/>
1219. Muir KL, Kallam A, Koepsell SA, Gundabolu K. Thrombotic Thrombocytopenia after Ad26.COVS.2.S Vaccination. *N Engl J Med.* 2021 May 20;384(20):1964-1965. doi: 10.1056/NEJMc2105869. Epub 2021 Apr 14. PMID: 33852795; PMCID: PMC8063883.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8063883/>
1220. Lai CC, Ko WC, Chen CJ, Chen PY, Huang YC, Lee PI, Hsueh PR. COVID-19 vaccines and thrombosis with thrombocytopenia syndrome. *Expert Rev Vaccines.* 2021 Aug;20(8):1027-1035. doi: 10.1080/14760584.2021.1949294. Epub 2021 Jul 8. PMID: 34176415. <https://pubmed.ncbi.nlm.nih.gov/34176415/>

1221. Morais S, Cruz E. Trombose, Hemorragia e Trombocitopenia Induzidas pelas Vacinas contra a COVID-19: Protocolo de Atuação [Guidelines on: COVID-19 Vaccine Induced Thrombosis, Bleeding, and Thrombocytopenia]. *Acta Med Port.* 2021 Aug 31;34(9):625-629. Portuguese. doi: 10.20344/amp.16602. Epub 2021 Jun 18. PMID: 34147137. <https://pubmed.ncbi.nlm.nih.gov/34147137/>
1222. Suresh P, Petchey W. ChAdOx1 nCoV-19 vaccine-induced immune thrombotic thrombocytopenia and cerebral venous sinus thrombosis (CVST). *BMJ Case Rep.* 2021 Jun 16;14(6):e243931. doi: 10.1136/bcr-2021-243931. PMID: 34135077; PMCID: PMC8211078. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8211078/>
1223. Thakur KT, Tamborska A, Wood GK, et al. Clinical review of cerebral venous thrombosis in the context of COVID-19 vaccinations: Evaluation, management, and scientific questions. *J Neurol Sci.* 2021 Aug 15;427:117532. doi: 10.1016/j.jns.2021.117532. Epub 2021 Jun 5. PMID: 34134058; PMCID: PMC8178065. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8178065/>
1224. Osmanodja B, Schreiber A, Schrezenmeier E, Seelow E. First diagnosis of thrombotic thrombocytopenic purpura after SARS-CoV-2 vaccine - case report. *BMC Nephrol.* 2021 Dec 11;22(1):411. doi: 10.1186/s12882-021-02616-3. PMID: 34895163; PMCID: PMC8665311.
1225. Di Micco P, Camporese G, Cardillo G, Lodigiani C, Carannante N, Annunziata A, Fiorentino G, Russo V, Imbalzano E. Pathophysiology of Vaccine-Induced Prothrombotic Immune Thrombocytopenia (VIPIT) and Vaccine-Induced Thrombotic Thrombocytopenia (VITT) and Their Diagnostic Approach in Emergency. *Medicina (Kaunas).* 2021 Sep 22;57(10):997. doi: 10.3390/medicina57100997. PMID: 34684034; PMCID: PMC8539999.
1226. Congiu T, Fanni D, Piras M, Gerosa C, Cau F, Barcellona D, D'Aloja E, Demontis R, Chighine A, Nioi M, Coni P, Ravarino A, Cerrone G, Aimola V, Botta C, Scano A, Orrù G, Coghe F, Van Eyken P, La Nasa G, Saba L, Suri JS, Faa G, Marongiu F. Ultrastructural findings of lung injury due to Vaccine-induced Immune Thrombotic Thrombocytopenia (VITT) following COVID-19 vaccination: a scanning electron microscopic study. *Eur Rev Med Pharmacol Sci.* 2022 Jan;26(1):270-277. doi: 10.26355/eurrev_202201_27777. PMID: 35049004.
1227. Chang JC, Hawley HB. Vaccine-Associated Thrombocytopenia and Thrombosis: Venous Endotheliopathy Leading to Venous Combined Micro-Macrothrombosis. *Medicina (Kaunas).* 2021 Oct 26;57(11):1163. doi: 10.3390/medicina57111163. PMID: 34833382; PMCID: PMC8621006.
1228. Maiese A, Baronti A, Manetti AC, Di Paolo M, Turillazzi E, Frati P, Fineschi V. Death after the Administration of COVID-19 Vaccines Approved by EMA: Has a Causal Relationship Been Demonstrated? *Vaccines (Basel).* 2022 Feb 16;10(2):308. doi: 10.3390/vaccines10020308. PMID: 35214765; PMCID: PMC8875435.

1229. Saudagar V, Patil S, Goh S, Pothiawala S. Vigilance regarding immune thrombocytopenic purpura after COVID-19 vaccine. *Ir J Med Sci.* 2022 Apr;191(2):919-920. doi: 10.1007/s11845-021-02614-2. Epub 2021 Mar 31. PMID: 33788135; PMCID: PMC8011062.
1230. Waqar SHB, Khan AA, Memon S. Thrombotic thrombocytopenic purpura: a new menace after COVID bnt162b2 vaccine. *Int J Hematol.* 2021 Nov;114(5):626-629. doi: 10.1007/s12185-021-03190-y. Epub 2021 Jul 15. PMID: 34264514; PMCID: PMC8280631.
1231. Jawed M, Khalid A, Rubin M, Shafiq R, Cemalovic N. Acute Immune Thrombocytopenia (ITP) Following COVID-19 Vaccination in a Patient With Previously Stable ITP. *Open Forum Infect Dis.* 2021 Jun 24;8(7):ofab343. doi: 10.1093/ofid/ofab343. PMID: 34307734; PMCID: PMC8294682.
1232. Sivaramakrishnan P, Mishra M. Vaccination-associated immune thrombocytopenia possibly due to ChAdOx1 nCoV-19 (Covishield) coronavirus vaccine. *BMJ Case Rep.* 2022 Mar 30;15(3):e249237. doi: 10.1136/bcr-2022-249237. PMID: 35354570.
1233. Lai CC, Ko WC, Chen CJ, Chen PY, Huang YC, Lee PI, Hsueh PR. COVID-19 vaccines and thrombosis with thrombocytopenia syndrome. *Expert Rev Vaccines.* 2021 Aug;20(8):1027-1035. doi: 10.1080/14760584.2021.1949294. Epub 2021 Jul 8. PMID: 34176415.
1234. Bersinger S, Lagarde K, Marlu R, Pernod G, Payen JF. Using Nonheparin Anticoagulant to Treat a Near-Fatal Case With Multiple Venous Thrombotic Lesions During ChAdOx1 nCoV-19 Vaccination-Related Vaccine-Induced Immune Thrombotic Thrombocytopenia. *Crit Care Med.* 2021 Sep 1;49(9):e870-e873. doi: 10.1097/CCM.0000000000005105. PMID: 34049307.
1235. Malayala SV, Mohan G, Vasireddy D, Atluri P. Purpuric Rash and Thrombocytopenia After the mRNA-1273 (Moderna) COVID-19 Vaccine. *Cureus.* 2021 Mar 25;13(3):e14099. doi: 10.7759/cureus.14099. PMID: 33786251; PMCID: PMC7996471.

Varicella Zoster / Herpes / Shingles

1236. Fathy RA, McMahon DE, Lee C, et al. Varicella-zoster and herpes simplex virus reactivation post-COVID-19 vaccination: a review of 40 cases in an International Dermatology Registry. *J Eur Acad Dermatol Venereol.* 2022 Jan;36(1):e6-e9. doi: 10.1111/jdv.17646. Epub 2021 Oct 5. PMID: 34487581; PMCID: PMC8656951. <https://pubmed.ncbi.nlm.nih.gov/34487581/>
1237. Mohta A, Arora A, Srinivasa R, et al. Recurrent herpes zoster after COVID-19 vaccination in patients with chronic urticaria being treated with cyclosporine-A report of 3 cases. *J*

- Cosmet Dermatol. 2021 Nov;20(11):3384-3386. doi: 10.1111/jocd.14437. Epub 2021 Sep 12. PMID: 34510694; PMCID: PMC8661977. <https://pubmed.ncbi.nlm.nih.gov/34510694/>
1238. Psychogiou M, Samarkos M, Mikos N, Hatzakis A. Reactivation of Varicella Zoster Virus after Vaccination for SARS-CoV-2. *Vaccines (Basel)*. 2021;9(6):572. Published 2021 Jun 1. doi:10.3390/vaccines9060572. PMCID: PMC8228758. <https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8228758/>
1239. Victoria Furer, Devy Zisman, Adi Kibari, Doron Rimar, Yael Paran, Ori Elkayam. Herpes zoster following BNT162b2 mRNA COVID-19 vaccination in patients with autoimmune inflammatory rheumatic diseases: a case series, *Rheumatology*, Volume 60, Issue SI, October 2021, Pages SI90–SI95, <https://doi.org/10.1093/rheumatology/keab345>
1240. Pappasavvas I, de Courten C, Herbort CP Jr. Varicella-zoster virus reactivation causing herpes zoster ophthalmicus (HZO) after SARS-CoV-2 vaccination - report of three cases. *J Ophthalmic Inflamm Infect*. 2021 Sep 16;11(1):28. doi: 10.1186/s12348-021-00260-4. PMID: 34529153; PMCID: PMC8443850. <https://pubmed.ncbi.nlm.nih.gov/34529153/>
1241. Vallianou NG, Tsilingiris D, Karampela I, Liu J, Dalamaga M. Herpes zoster following COVID-19 vaccination in an immunocompetent and vaccinated for herpes zoster adult: A two-vaccine related event? *Metabol Open*. 2022 Mar;13:100171. doi: 10.1016/j.metop.2022.100171. Epub 2022 Feb 10. PMID: 35169692; PMCID: PMC8830150. <https://pubmed.ncbi.nlm.nih.gov/35169692/>
1242. Maldonado MD, Romero-Aibar J. The Pfizer-BNT162b2 mRNA-based vaccine against SARS-CoV-2 may be responsible for awakening the latency of herpes varicella-zoster virus. *Brain Behav Immun Health*. 2021 Dec;18:100381. doi: 10.1016/j.bbih.2021.100381. Epub 2021 Oct 30. PMID: 34746880; PMCID: PMC8556178. <https://pubmed.ncbi.nlm.nih.gov/34746880/>
1243. Eid E, Abdullah L, Kurban M, Abbas O. Herpes zoster emergence following mRNA COVID-19 vaccine. *J Med Virol*. 2021 Sep;93(9):5231-5232. doi: 10.1002/jmv.27036. Epub 2021 May 3. PMID: 33913545; PMCID: PMC8242521. <https://www.ncbi.nlm.nih.gov/labs/pmc/articles/PMC8242521/>
1244. Rallis KI, Fausto R, Ting DSJ, Al-Aqaba MA, Said DG, Dua HS. Manifestation of Herpetic Eye Disease after COVID-19 Vaccine: A UK Case Series. *Ocul Immunol Inflamm*. 2022 Apr 12:1-6. doi: 10.1080/09273948.2022.2046795. Epub ahead of print. PMID: 35412952.
1245. Ryu KJ, Kim DH. Recurrence of Varicella-Zoster Virus Keratitis After SARS-CoV-2 Vaccination. *Cornea*. 2022 May 1;41(5):649-650. doi: 10.1097/ICO.0000000000002999. PMID: 35383620.

1246. Job AM, Sudhamani B, Mohan M, Mohanasundaram SN. Herpes zoster following vaccination with ChAdOx1 nCoV-19 Coronavirus vaccine (recombinant). *Indian J Public Health*. 2022 Jan-Mar;66(1):83-85. doi: 10.4103/ijph.ijph_2017_21. PMID: 35381724.
1247. Buranasakda M, Kotruchin P, Phanthachai K, Mootsikapun P, Chetchotisakd P. Varicella zoster meningitis following COVID-19 vaccination: a report of two cases. *Int J Infect Dis*. 2022 Mar 30:S1201-9712(22)00192-8. doi: 10.1016/j.ijid.2022.03.055. Epub ahead of print. PMID: 35367355; PMCID: PMC8964532.
1248. Ortiz-Egea JM, Sánchez CG, López-Jiménez A, Navarro OD. Herpetic anterior uveitis following Pfizer-BioNTech coronavirus disease 2019 vaccine: two case reports. *J Med Case Rep*. 2022 Mar 25;16(1):127. doi: 10.1186/s13256-022-03350-6. PMID: 35337364; PMCID: PMC8949824.
1249. Kerr C, O'Neill S, Szucs A, Darmody O, Williamson C, Bannan C, Merry C. Zoster meningitis in an immunocompetent young patient post first dose of BNT162b2 mRNA COVID-19 vaccine, a case report. *IDCases*. 2022;27:e01452. doi: 10.1016/j.idcr.2022.e01452. Epub 2022 Feb 12. PMID: 35186672; PMCID: PMC8837498.
1250. Kerr C, O'Neill S, Szucs A, Darmody O, Williamson C, Bannan C, Merry C. Zoster meningitis in an immunocompetent young patient post first dose of BNT162b2 mRNA COVID-19 vaccine, a case report. *IDCases*. 2022;27:e01452. doi: 10.1016/j.idcr.2022.e01452. Epub 2022 Feb 12. PMID: 35186672; PMCID: PMC8837498.
1251. Dezoteux F, Massip É, Marcant P, Sobaszek A, Chopin MC, Vuotto F, Staumont-Sallé D. Herpes Zoster Following a Nucleoside-Modified Messenger RNA COVID-19 Vaccine. *Cutis*. 2022 Jan;109(1):E5-E7. doi: 10.12788/cutis.0423. PMID: 35180059.
1252. Préta LH, Contejean A, Salvo F, Treluyer JM, Charlier C, Chouchana L. Association study between herpes zoster reporting and mRNA COVID-19 vaccines (BNT162b2 and mRNA-1273). *Br J Clin Pharmacol*. 2022 Feb 16. doi: 10.1111/bcp.15280. Epub ahead of print. PMID: 35174524.
1253. Alkwikbi H, Alenazi M, Alanazi W, Alruwaili S. Herpetic Keratitis and Corneal Endothelitis Following COVID-19 Vaccination: A Case Series. *Cureus*. 2022 Jan 5;14(1):e20967. doi: 10.7759/cureus.20967. PMID: 35154946; PMCID: PMC8815810.
1254. Lazzaro DR, Ramachandran R, Cohen E, Galetta SL. Covid-19 vaccination and possible link to Herpes zoster. *Am J Ophthalmol Case Rep*. 2022 Mar;25:101359. doi: 10.1016/j.ajoc.2022.101359. Epub 2022 Jan 26. PMID: 35097240; PMCID: PMC8789478.
1255. Lebedeva V, Müller C, Dissemond J. Mehrsegmentaler Zoster eines gesunden 20-Jährigen nach COVID-19-Impfung [Multisegmental herpes zoster in a healthy 20-year-old man after COVID-19 vaccination]. *Hautarzt*. 2022 Mar;73(3):220-221. German. doi: 10.1007/s00105-022-04942-5. Epub 2022 Jan 14. PMID: 35029697; PMCID: PMC8759223.

1256. Li S, Jia X, Yu F, Wang Q, Zhang T, Yuan J. Herpetic Keratitis Preceded by COVID-19 Vaccination. *Vaccines (Basel)*. 2021 Nov 25;9(12):1394. doi: 10.3390/vaccines9121394. PMID: 34960139; PMCID: PMC8707988.
1257. Muhie OA, Adera H, Tsige E, Afework A. Herpes Zoster Following Covaxin Receipt. *Int Med Case Rep J*. 2021 Dec 1;14:819-821. doi: 10.2147/IMCRJ.S345288. PMID: 34880682; PMCID: PMC8646222.
1258. Lee TJ, Lu CH, Hsieh SC. Herpes zoster reactivation after mRNA-1273 vaccination in patients with rheumatic diseases. *Ann Rheum Dis*. 2022 Apr;81(4):595-597. doi: 10.1136/annrheumdis-2021-221688. Epub 2021 Dec 7. PMID: 34876461.
1259. Abu-Rumeileh S, Mayer B, Still V, Tumani H, Otto M, Senel M. Varicella zoster virus-induced neurological disease after COVID-19 vaccination: a retrospective monocentric study. *J Neurol*. 2022 Apr;269(4):1751-1757. doi: 10.1007/s00415-021-10849-3. Epub 2021 Nov 1. PMID: 34724572; PMCID: PMC8558363.
1260. Kluger N, Klimenko T, Bosonnet S. Herpes simplex, herpes zoster and periorbital erythema flares after SARS-CoV-2 vaccination: 4 cases. *Ann Dermatol Venereol*. 2022 Mar;149(1):58-60. doi: 10.1016/j.annder.2021.07.009. Epub 2021 Oct 2. PMID: 34711399; PMCID: PMC8486645.
1261. Rehman O, Arya SK, Jha UP, Nayyar S, Goel I. Herpes Zoster Ophthalmicus After COVID-19 Vaccination: Chance Occurrence or More? *Cornea*. 2022 Feb 1;41(2):254-256. doi: 10.1097/ICO.0000000000002881. PMID: 34690265.
1262. Alkhalifah MI, Alsobki HE, Alwael HM, Al Fawaz AM, Al-Mezaine HS. Herpes Simplex Virus Keratitis Reactivation after SARS-CoV-2 BNT162b2 mRNA Vaccination: A Report of Two Cases. *Ocul Immunol Inflamm*. 2021 Aug 18;29(6):1238-1240. doi: 10.1080/09273948.2021.1986548. Epub 2021 Oct 12. PMID: 34637667.

Vasculitis

1263. Shakoor MT, Birkenbach MP, Lynch M. ANCA-Associated Vasculitis Following Pfizer-BioNTech COVID-19 Vaccine. *Am J Kidney Dis*. 2021 Oct;78(4):611-613. doi: 10.1053/j.ajkd.2021.06.016. Epub 2021 Jul 17. PMID: 34280507; PMCID: PMC8285210. <https://www.sciencedirect.com/science/article/pii/S0272638621007423>
1264. Badier L, Toledano A, Porel T, et al. IgA vasculitis in adult patient following vaccination by ChadOx1 nCoV-19. *Autoimmun Rev*. 2021 Nov;20(11):102951. doi: 10.1016/j.autrev.2021.102951. Epub 2021 Sep 9. PMID: 34509658; PMCID: PMC8427903. <https://pubmed.ncbi.nlm.nih.gov/34509658/>

1265. Erler A, Fiedler J, Koch A, et al. Leukocytoclastic Vasculitis After Vaccination With a SARS-CoV-2 Vaccine. *Arthritis Rheumatol*. 2021 Dec;73(12):2188. doi: 10.1002/art.41910. Epub 2021 Nov 29. PMID: 34196469; PMCID: PMC8426908. <https://pubmed.ncbi.nlm.nih.gov/34196469/>.
1266. Ungari M, Pezzarossa E. Cutaneous Lymphocytic Vasculitis After Administration of the Second Dose of AZD1222 (Oxford-AstraZeneca) Severe Acute Respiratory Syndrome Coronavirus 2 Vaccination: Casualty or Causality? *Am J Dermatopathol*. 2022 Jan 1;44(1):80-82. doi: 10.1097/DAD.0000000000002104. PMID: 34726187. <https://pubmed.ncbi.nlm.nih.gov/34726187/>.
1267. Dash S, Behera B, Sethy M, et al. COVID-19 vaccine-induced urticarial vasculitis. *Dermatol Ther*. 2021 Sep;34(5):e15093. doi: 10.1111/dth.15093. Epub 2021 Aug 14. PMID: 34369046; PMCID: PMC8420183. <https://pubmed.ncbi.nlm.nih.gov/34369046/>.
1268. Shakoor MT, Birkenbach MP, Lynch M. ANCA-Associated Vasculitis Following Pfizer-BioNTech COVID-19 Vaccine. *Am J Kidney Dis*. 2021 Oct;78(4):611-613. doi: 10.1053/j.ajkd.2021.06.016. Epub 2021 Jul 17. PMID: 34280507; PMCID: PMC8285210. <https://pubmed.ncbi.nlm.nih.gov/34280507/>.
1269. Bostan E, Gulseren D, Gokoz O. New-onset leukocytoclastic vasculitis after COVID-19 vaccine. *Int J Dermatol*. 2021 Oct;60(10):1305-1306. doi: 10.1111/ijd.15777. Epub 2021 Jul 9. PMID: 34241833; PMCID: PMC8444793. <https://pubmed.ncbi.nlm.nih.gov/34241833/>
1270. Kar BR, Singh BS, Mohapatra L, et al. Cutaneous small-vessel vasculitis following COVID-19 vaccine. *J Cosmet Dermatol*. 2021 Nov;20(11):3382-3383. doi: 10.1111/jocd.14452. Epub 2021 Sep 16. PMID: 34529877; PMCID: PMC8661731. <https://pubmed.ncbi.nlm.nih.gov/34529877/>.
1271. Cohen SR, Prussick L, Kahn JS, et al. Leukocytoclastic vasculitis flare following the COVID-19 vaccine. *Int J Dermatol*. 2021 Aug;60(8):1032-1033. doi: 10.1111/ijd.15623. Epub 2021 Apr 30. PMID: 33928638; PMCID: PMC8239799. <https://pubmed.ncbi.nlm.nih.gov/33928638/>
1272. Fritzen M, Funchal GDG, Luiz MO, et al. Leukocytoclastic vasculitis after exposure to COVID-19 vaccine. *An Bras Dermatol*. 2022 Jan-Feb;97(1):118-121. doi: 10.1016/j.abd.2021.09.003. Epub 2021 Nov 10. PMID: 34836739; PMCID: PMC8578015. <https://pubmed.ncbi.nlm.nih.gov/34836739/>
1273. Schierz JH, Merkel C, Kittner T, et al. Vasculitis and bursitis on [18F]FDG-PET/CT following COVID-19 mRNA vaccine: post hoc ergo propter hoc? *Eur J Nucl Med Mol Imaging*. 2022 Feb;49(3):1086-1087. doi: 10.1007/s00259-021-05553-3. Epub 2021 Sep 8. PMID: 34495381; PMCID: PMC8424403. <https://pubmed.ncbi.nlm.nih.gov/34495381/>.

1274. Vassallo C, Boveri E, Brazzelli V, et al. Cutaneous lymphocytic vasculitis after administration of COVID-19 mRNA vaccine. *Dermatol Ther*. 2021 Sep;34(5):e15076. doi: 10.1111/dth.15076. Epub 2021 Aug 10. PMID: 34327795; PMCID: PMC8420357. <https://pubmed.ncbi.nlm.nih.gov/34327795>
1275. Bencharattanaphakhi R, Rerknimitr P. Sinovac COVID-19 vaccine-induced cutaneous leukocytoclastic vasculitis. *JAAD Case Rep*. 2021 Dec;18:1-3. doi: 10.1016/j.jcdr.2021.10.002. Epub 2021 Oct 9. PMID: 34660867; PMCID: PMC8501511. <https://pubmed.ncbi.nlm.nih.gov/34660867/>.
1276. Maye JA, Chong HP, Rajagopal V, et al. Reactivation of IgA vasculitis following COVID-19 vaccination. *BMJ Case Rep*. 2021 Nov 30;14(11):e247188. doi: 10.1136/bcr-2021-247188. PMID: 34848431; PMCID: PMC8634214. <https://pubmed.ncbi.nlm.nih.gov/34848431/>
1277. Nastro F, Fabbrocini G, di Vico F, et al. Small vessel vasculitis related to varicella-zoster virus after Pfizer-BioNTech COVID-19 vaccine. *J Eur Acad Dermatol Venereol*. 2021 Nov;35(11):e745-e747. doi: 10.1111/jdv.17550. Epub 2021 Aug 4. PMID: 34310759; PMCID: PMC8446985. <https://pubmed.ncbi.nlm.nih.gov/34310759/>.
1278. Dicks AB, Gray BH. Images in Vascular Medicine: Leukocytoclastic vasculitis after COVID-19 vaccine booster. *Vasc Med*. 2022 Feb;27(1):100-101. doi: 10.1177/1358863X211055507. Epub 2021 Nov 1. PMID: 34720009. <https://pubmed.ncbi.nlm.nih.gov/34720009/>
1279. Cavalli G, Colafrancesco S, De Luca G, et al. Cutaneous vasculitis following COVID-19 vaccination. *Lancet Rheumatol*. 2021 Nov;3(11):e743-e744. doi: 10.1016/S2665-9913(21)00309-X. Epub 2021 Sep 30. PMID: 34611627; PMCID: PMC8483649. <https://pubmed.ncbi.nlm.nih.gov/34611627/>.
1280. Bostan E, Zaid F, Akdogan N, et al. Possible case of mRNA COVID-19 vaccine-induced small-vessel vasculitis. *J Cosmet Dermatol*. 2022 Jan;21(1):51-53. doi: 10.1111/jocd.14568. Epub 2021 Oct 27. PMID: 34705320. <https://pubmed.ncbi.nlm.nih.gov/34705320/>.
1281. Grossman ME, Appel G, Little AJ, et al. Post-COVID-19 vaccination IgA vasculitis in an adult. *J Cutan Pathol*. 2021 Nov 14:10.1111/cup.14168. doi: 10.1111/cup.14168. Epub ahead of print. PMID: 34779011; PMCID: PMC8652641. <https://pubmed.ncbi.nlm.nih.gov/34779011/>
1282. Okuda S, Hirooka Y, Sugiyama M. Propylthiouracil-Induced Antineutrophil Cytoplasmic Antibody-Associated Vasculitis after COVID-19 Vaccination. *Vaccines (Basel)*. 2021 Jul 31;9(8):842. doi: 10.3390/vaccines9080842. PMID: 34451967; PMCID: PMC8402331. <https://pubmed.ncbi.nlm.nih.gov/34451967/>

1283. Sim J, Lim CC. Coronavirus disease 2019 (COVID-19) vaccination in systemic lupus erythematosus and anti-neutrophil cytoplasmic antibody-associated vasculitis. *Clin Rheumatol*. 2021 Jun;40(6):2517-2518. doi: 10.1007/s10067-021-05750-3. Epub 2021 Apr 29. PMID: 33928459; PMCID: PMC8084413. <https://pubmed.ncbi.nlm.nih.gov/33928459/>
1284. Obeid M, Fenwick C, Pantaleo G. Reactivation of IgA vasculitis after COVID-19 vaccination. *Lancet Rheumatol*. 2021 Sep;3(9):e617. doi: 10.1016/S2665-9913(21)00211-3. Epub 2021 Jul 6. PMID: 34250509; PMCID: PMC8260100. <https://pubmed.ncbi.nlm.nih.gov/34250509/>
1285. Mücke VT, Knop V, Mücke MM, et al. First description of immune complex vasculitis after COVID-19 vaccination with BNT162b2: a case report. *BMC Infect Dis*. 2021 Sep 16;21(1):958. doi: 10.1186/s12879-021-06655-x. PMID: 34530771; PMCID: PMC8443965. <https://pubmed.ncbi.nlm.nih.gov/34530771/>.
1286. Izzedine H, Bonilla M, Jhaveri KD. Nephrotic syndrome and vasculitis following SARS-CoV-2 vaccine: true association or circumstantial? *Nephrol Dial Transplant*. 2021 Aug 27;36(9):1565-1569. doi: 10.1093/ndt/gfab215. PMID: 34245294; PMCID: PMC8344645. <https://pubmed.ncbi.nlm.nih.gov/34245294/>.
1287. Liang I, Swaminathan S, Lee AYS. Emergence of de novo cutaneous vasculitis post coronavirus disease (COVID-19) vaccination. *Clin Rheumatol*. 2021 Oct 2:1–2. doi: 10.1007/s10067-021-05948-5. Epub ahead of print. PMID: 34599716; PMCID: PMC8487223. <https://pubmed.ncbi.nlm.nih.gov/34599716/>.
1288. Kharkar V, Vishwanath T, Mahajan S, et al. Asymmetrical cutaneous vasculitis following COVID-19 vaccination with unusual eosinophil preponderance. *Clin Exp Dermatol*. 2021 Dec;46(8):1596-1597. doi: 10.1111/ced.14797. Epub 2021 Jul 29. PMID: 34115904; PMCID: PMC8444878. <https://pubmed.ncbi.nlm.nih.gov/34115904/>.
1289. David R, Hanna P, Lee K, et al. Relapsed ANCA associated vasculitis following Oxford AstraZeneca ChAdOx1-S COVID-19 vaccination: A case series of two patients. *Nephrology (Carlton)*. 2022 Jan;27(1):109-110. doi: 10.1111/nep.13993. Epub 2021 Nov 9. PMID: 34755433; PMCID: PMC8646290. <https://pubmed.ncbi.nlm.nih.gov/34755433/>
1290. Okuda S, Hirooka Y, Sugiyama M. Propylthiouracil-Induced Antineutrophil Cytoplasmic Antibody-Associated Vasculitis after COVID-19 Vaccination. *Vaccines (Basel)*. 2021 Jul 31;9(8):842. doi: 10.3390/vaccines9080842. PMID: 34451967; PMCID: PMC8402331. <https://pubmed.ncbi.nlm.nih.gov/34451967/>
1291. Villa M, Díaz-Crespo F, Pérez de José A, et al. A case of ANCA-associated vasculitis after AZD1222 (Oxford-AstraZeneca) SARS-CoV-2 vaccination: casualty or causality? *Kidney Int*. 2021 Oct;100(4):937-938. doi: 10.1016/j.kint.2021.07.026. Epub 2021 Aug 17. PMID: 34416184; PMCID: PMC8372491. <https://pubmed.ncbi.nlm.nih.gov/34416184/>.

1292. Sandhu S, Bhatnagar A, Kumar H, et al. Leukocytoclastic vasculitis as a cutaneous manifestation of ChAdOx1 nCoV-19 corona virus vaccine (recombinant). *Dermatol Ther*. 2021 Nov;34(6):e15141. doi: 10.1111/dth.15141. Epub 2021 Oct 5. PMID: 34546608; PMCID: PMC8646583. <https://pubmed.ncbi.nlm.nih.gov/34546608/>
1293. Shahrigharakhoshan S, Gagnon LP, Mathieu S. Cutaneous Leukocytoclastic Vasculitis Induction Following ChAdOx1 nCoV-19 Vaccine. *Cureus*. 2021 Oct 24;13(10):e19005. doi: 10.7759/cureus.19005. PMID: 34853744; PMCID: PMC8609955. <https://pubmed.ncbi.nlm.nih.gov/34853744/>
1294. Chen CC, Chen HY, Lu CC, et al. Case Report: Anti-neutrophil Cytoplasmic Antibody-Associated Vasculitis With Acute Renal Failure and Pulmonary Hemorrhage May Occur After COVID-19 Vaccination. *Front Med (Lausanne)*. 2021 Nov 11;8:765447. doi: 10.3389/fmed.2021.765447. PMID: 34859017; PMCID: PMC8632021. <https://pubmed.ncbi.nlm.nih.gov/34859017/>
1295. Gillion V, Jadoul M, Demoulin N, et al. Granulomatous vasculitis after the AstraZeneca anti-SARS-CoV-2 vaccine. *Kidney Int*. 2021 Sep;100(3):706-707. doi: 10.1016/j.kint.2021.06.033. Epub 2021 Jul 5. PMID: 34237323; PMCID: PMC8256676. <https://pubmed.ncbi.nlm.nih.gov/34237323/>.
1296. Guzmán-Pérez L, Puerta-Peña M, Falkenhain-López D, et al. Small-vessel vasculitis following Oxford-AstraZeneca vaccination against SARS-CoV-2. *J Eur Acad Dermatol Venereol*. 2021 Nov;35(11):e741-e743. doi: 10.1111/jdv.17547. Epub 2021 Aug 4. PMID: 34310763; PMCID: PMC8447203. <https://pubmed.ncbi.nlm.nih.gov/34310763/>
1297. Conticini E, d'Alessandro M, Bergantini L, et al. Relapse of microscopic polyangiitis after vaccination against COVID-19: A case report. *J Med Virol*. 2021 Dec;93(12):6439-6441. doi: 10.1002/jmv.27192. Epub 2021 Jul 20. PMID: 34251683; PMCID: PMC8426895. <https://pubmed.ncbi.nlm.nih.gov/34251683/>.
1298. Colia R, Rotondo C, Corrado A, et al. Cutaneous vasculitis after severe acute respiratory syndrome coronavirus 2 vaccine. *Rheumatol Adv Pract*. 2021 Sep 16;5(3):rkab050. doi: 10.1093/rap/rkab050. PMID: 34557622; PMCID: PMC8452996. <https://pubmed.ncbi.nlm.nih.gov/34557622/>.
1299. Jin WJ, Ahn SW, Jang SH, et al. Leukocytoclastic vasculitis after coronavirus disease 2019 vaccination. *J Dermatol*. 2022 Jan;49(1):e34-e35. doi: 10.1111/1346-8138.16212. Epub 2021 Oct 28. PMID: 34713472; PMCID: PMC8652425. <https://pubmed.ncbi.nlm.nih.gov/34713472/803>
1300. Visentini M, Gragnani L, Santini SA, et al. Flares of mixed cryoglobulinaemia vasculitis after vaccination against SARS-CoV-2. *Ann Rheum Dis*. 2021 Nov 24;annrheumdis-2021-221248. doi: 10.1136/annrheumdis-2021-221248. Epub ahead of print. PMID: 34819272. <https://pubmed.ncbi.nlm.nih.gov/34819272/>

1301. Berry CT, Eliliwi M, Gallagher S, et al. Cutaneous small vessel vasculitis following single-dose Janssen Ad26.COVS vaccination. *JAAD Case Rep.* 2021 Sep;15:11-14. doi: 10.1016/j.jdc.2021.07.002. Epub 2021 Jul 14. PMID: 34337124; PMCID: PMC8302840. <https://pubmed.ncbi.nlm.nih.gov/34337124/>
1302. Iwata H, Kamiya K, Kado S, et al. Case of immunoglobulin A vasculitis following coronavirus disease 2019 vaccination. *J Dermatol.* 2021 Dec;48(12):e598-e599. doi: 10.1111/1346-8138.16167. Epub 2021 Sep 17. PMID: 34535924; PMCID: PMC8652428. <https://pubmed.ncbi.nlm.nih.gov/34535924/>
1303. Kinariwalla N, London AO, Soliman YS, et al. A case of generalized Sweet syndrome with vasculitis triggered by recent COVID-19 vaccination. *JAAD Case Rep.* 2022 Jan;19:64-67. doi: 10.1016/j.jdc.2021.11.010. Epub 2021 Nov 25. PMID: 34849386; PMCID: PMC8612751. <https://pubmed.ncbi.nlm.nih.gov/34849386/>
1304. Naitlho A, Lahlou W, Bourial A, et al. A Rare Case of Henoch-Schönlein Purpura Following a COVID-19 Vaccine-Case Report. *SN Compr Clin Med.* 2021 Sep 8:1-4. doi: 10.1007/s42399-021-01025-9. Epub ahead of print. PMID: 34518812; PMCID: PMC8425851. <https://pubmed.ncbi.nlm.nih.gov/34518812/>
1305. Hines AM, Murphy N, Mullin C, et al. Henoch-Schönlein purpura presenting post COVID-19 vaccination. *Vaccine.* 2021 Jul 30;39(33):4571-4572. doi: 10.1016/j.vaccine.2021.06.079. Epub 2021 Jun 30. PMID: 34247902; PMCID: PMC8241653. <https://pubmed.ncbi.nlm.nih.gov/34247902/>.
1306. Sirufo MM, Raggiunti M, Magnanimi LM, et al. Henoch-Schönlein Purpura Following the First Dose of COVID-19 Viral Vector Vaccine: A Case Report. *Vaccines (Basel).* 2021 Sep 25;9(10):1078. doi: 10.3390/vaccines9101078. PMID: 34696186; PMCID: PMC8539285. <https://pubmed.ncbi.nlm.nih.gov/34696186/>.
1307. Davido B, Mascitti H, Fortier-Beaulieu M, Jaffal K, de Truchis P. 'Blue toes' following vaccination with the BNT162b2 mRNA COVID-19 vaccine. *J Travel Med.* 2021 Jun 1;28(4):taab024. doi: 10.1093/jtm/taab024. PMID: 33620081; PMCID: PMC7928759. <https://pubmed.ncbi.nlm.nih.gov/33620081/>
1308. McCleskey PE, Lieberman A, Herrinton LJ. Chilblains and COVID-19-An Update on the Complexities of Interpreting Antibody Test Results, the Role of Interferon α , and COVID-19 Vaccines-Reply. *JAMA Dermatol.* 2022 Feb 1;158(2):218-219. doi: 10.1001/jamadermatol.2021.4449. PMID: 34935853.
1309. Lesort C, Kanitakis J, Donzier L, Jullien D. Chilblain-like lesions after BNT162b2 mRNA COVID-19 vaccine: a case report suggesting that 'COVID toes' are due to the immune reaction to SARS-CoV-2. *J Eur Acad Dermatol Venereol.* 2021 Oct;35(10):e630-e632. doi: 10.1111/jdv.17451. Epub 2021 Jun 30. PMID: 34131969; PMCID: PMC8447428.

1310. Fillon A, Sautenet B, Barbet C, Moret L, Thillard EM, Jonville-Béra AP, Halimi JM. *De novo* and relapsing necrotizing vasculitis after COVID-19 vaccination. *Clin Kidney J.* 2021 Dec 20;15(3):560-563. doi: 10.1093/ckj/sfab285. PMID: 35211310; PMCID: PMC8862065.

Miscellaneous

1311. Krutzke L, Roesler R, Wiese S, et al. Process-related impurities in the ChAdOx1 nCov-19 vaccine. *Research Square.* 10.21203/rs.3.rs-477964/v1 : <https://www.researchsquare.com/article/rs-477964/v1>
1312. Barda N, Dagan N, Ben-Shlomo Y, et al. Safety of the BNT162b2 mRNA Covid-19 Vaccine in a Nationwide Setting. *N Engl J Med.* 2021 Sep 16;385(12):1078-1090. doi: 10.1056/NEJMoa2110475. Epub 2021 Aug 25. PMID: 34432976; PMCID: PMC8427535. <https://www.ncbi.nlm.nih.gov/pubmed/34432976>
1313. González-Romero N, Morillo Montañes V, Vicente Sánchez I, et al. Úlceras De Lipschütz Tras La Vacuna Frente A La Covid-19 De Astrazeneca [Lipschütz Ulcers After the AstraZeneca COVID-19 Vaccine]. *Actas Dermosifiliogr (Engl Ed).* 2021 Aug 2. Spanish. doi: 10.1016/j.ad.2021.07.004. Epub ahead of print. PMID: 34366434; PMCID: PMC8327554. <https://pubmed.ncbi.nlm.nih.gov/34366434/>.
1314. von Tresckow J, von Tresckow B, Reinhardt HC, et al. Thymic hyperplasia after mRNA based Covid-19 vaccination. *Radiol Case Rep.* 2021 Dec;16(12):3744-3745. doi: 10.1016/j.radcr.2021.08.050. Epub 2021 Aug 26. PMID: 34462647; PMCID: PMC8387216. <https://pubmed.ncbi.nlm.nih.gov/34462647/>
1315. Bari R, Bepari AK, Reza HM. COVID-19: Lessons from Norway tragedy must be considered in vaccine rollout planning in least developed/developing countries. *Open Med (Wars).* 2021 Aug 11;16(1):1168-1169. doi: 10.1515/med-2021-0334. PMID: 34435142; PMCID: PMC8359902. <https://pubmed.ncbi.nlm.nih.gov/34435142/>
1316. Liu J, Wang J, Xu J, et al. Comprehensive investigations revealed consistent pathophysiological alterations after vaccination with COVID-19 vaccines. *Cell Discov.* 2021 Oct 26;7(1):99. doi: 10.1038/s41421-021-00329-3. PMID: 34697287; PMCID: PMC8546144. <https://www.nature.com/articles/s41421-021-00329-3>
1317. Konu YR, Gbeasor-Komlanvi FA, Yerima M, et al. Prevalence of severe adverse events among health professionals after receiving the first dose of the ChAdOx1 nCoV-19 coronavirus vaccine (Covishield) in Togo, March 2021. *Arch Public Health.* 2021 Nov 24;79(1):207. doi: 10.1186/s13690-021-00741-x. PMID: 34819146; PMCID: PMC8611394. <https://pubmed.ncbi.nlm.nih.gov/34819146/>.

1318. Uvais NA. Depression following ChAdOx1-S/nCoV-19 vaccine. *Eur J Psychiatry*. 2021 Sep 27. doi: 10.1016/j.ejpsy.2021.08.001. Epub ahead of print. PMID: 34608345; PMCID: PMC8482696.
1319. Masset C, Lebot-Bouras S, Branchereau J, et al. Pancreas allograft rejection occurring after ChAdOx1 nCoV-19 vaccine. *Diabetes Metab*. 2021 Nov 12;48(3):101303. doi: 10.1016/j.diabet.2021.101303. Epub ahead of print. PMID: 34781027; PMCID: PMC8586722. <https://pubmed.ncbi.nlm.nih.gov/34781027/>
1320. Vaishya R, Sibal A, Singh SK, et al. Emergence of COVID-19 variants among ChAdOx1 nCoV-19 (recombinant) vaccine recipients. *Indian J Med Res*. 2021 May;153(5&6):559-561. doi: 10.4103/ijmr.ijmr_2061_21. PMID: 34528522; PMCID: PMC8555616. <https://pubmed.ncbi.nlm.nih.gov/34528522/>
1321. Pomara C, Sessa F, Ciaccio M, et al. COVID-19 Vaccine and Death: Causality Algorithm According to the WHO Eligibility Diagnosis. *Diagnostics (Basel)*. 2021 May 26;11(6):955. doi: 10.3390/diagnostics11060955. PMID: 34073536; PMCID: PMC8229116. <https://pubmed.ncbi.nlm.nih.gov/34073536/>
1322. Edler C, Klein A, Schröder AS, et al. Deaths associated with newly launched SARS-CoV-2 vaccination (Comirnaty®). *Leg Med (Tokyo)*. 2021 Jul;51:101895. doi: 10.1016/j.legalmed.2021.101895. Epub 2021 Apr 17. PMID: 33895650; PMCID: PMC8052499. <https://pubmed.ncbi.nlm.nih.gov/33895650/>
1323. Mungmunpantipamtip R, Wiwanitkit V. Deaths associated with newly launched SARS-CoV-2 vaccination. *Leg Med (Tokyo)*. 2021 Nov;53:101956. doi: 10.1016/j.legalmed.2021.101956. Epub 2021 Aug 18. PMID: 34425384; PMCID: PMC8372443. <https://pubmed.ncbi.nlm.nih.gov/34425384/>
1324. Galindo R, Chow H, Rongkavilit C. COVID-19 in Children: Clinical Manifestations and Pharmacologic Interventions Including Vaccine Trials. *Pediatr Clin North Am*. 2021 Oct;68(5):961-976. doi: 10.1016/j.pcl.2021.05.004. Epub 2021 May 18. PMID: 34538306; PMCID: PMC8130516. <https://www.ncbi.nlm.nih.gov/pubmed/34538306>
1325. Hause AM, Gee J, Baggs J, et al. COVID-19 Vaccine Safety in Adolescents Aged 12-17 Years - United States, December 14, 2020-July 16, 2021. *MMWR Morb Mortal Wkly Rep*. 2021 Aug 6;70(31):1053-1058. doi: 10.15585/mmwr.mm7031e1. PMID: 34351881; PMCID: PMC8367318. <https://www.ncbi.nlm.nih.gov/pubmed/34351881>
1326. Mizrahi B, Lotan R, Kalkstein N, et al. Correlation of SARS-CoV-2-breakthrough infections to time-from-vaccine. *Nat Commun*. 2021 Nov 4;12(1):6379. doi: 10.1038/s41467-021-26672-3. PMID: 34737312; PMCID: PMC8569006. <https://www.ncbi.nlm.nih.gov/pubmed/34737312>
1327. Moffitt K, Cheung E, Yeung T, etc. Analysis of *Staphylococcus aureus* Transcriptome in Pediatric Soft Tissue Abscesses and Comparison to Murine Infections. *Infect Immun*.

- 2021 Mar 17;89(4):e00715-20. doi: 10.1128/IAI.00715-20. PMID: 33526560; PMCID: PMC8090966. <https://www.ncbi.nlm.nih.gov/pubmed/33526560>
1328. Mohamed L, Madsen AMR, Schaltz-Buchholzer F, et al. Reactivation of BCG vaccination scars after vaccination with mRNA-Covid-vaccines: two case reports. *BMC Infect Dis.* 2021 Dec 20;21(1):1264. doi: 10.1186/s12879-021-06949-0. PMID: 34930152; PMCID: PMC8685493. <https://www.ncbi.nlm.nih.gov/pubmed/34930152>
1329. Perrotta A, Biondi-Zoccai G, Saade W, et al. A snapshot global survey on side effects of COVID-19 vaccines among healthcare professionals and armed forces with a focus on headache. *Panminerva Med.* 2021 Sep;63(3):324-331. doi: 10.23736/S0031-0808.21.04435-9. PMID: 34738774. <https://www.ncbi.nlm.nih.gov/pubmed/34738774>
1330. Schramm R, Costard-Jäckle A, Rivinius R, et al. Poor humoral and T-cell response to two-dose SARS-CoV-2 messenger RNA vaccine BNT162b2 in cardiothoracic transplant recipients. *Clin Res Cardiol.* 2021 Aug;110(8):1142-1149. doi: 10.1007/s00392-021-01880-5. Epub 2021 Jul 9. PMID: 34241676; PMCID: PMC8267767. <https://www.ncbi.nlm.nih.gov/pubmed/34241676>
1331. Shay DK, Gee J, Su JR, et al. Safety Monitoring of the Janssen (Johnson & Johnson) COVID-19 Vaccine - United States, March-April 2021. *MMWR Morb Mortal Wkly Rep.* 2021 May 7;70(18):680-684. doi: 10.15585/mmwr.mm7018e2. PMID: 33956784. <https://www.ncbi.nlm.nih.gov/pubmed/33956784>
1332. Smith C, Odd D, Harwood R, et al. Deaths in children and young people in England after SARS-CoV-2 infection during the first pandemic year. *Nat Med.* 2022 Jan;28(1):185-192. doi: 10.1038/s41591-021-01578-1. Epub 2021 Nov 11. PMID: 34764489. <https://www.ncbi.nlm.nih.gov/pubmed/34764489>
1333. Barbari A. COVID-19 Vaccine Concerns: Fact or Fiction? *Exp Clin Transplant.* 2021 Jul;19(7):627-634. doi: 10.6002/ect.2021.0056. Epub 2021 Mar 31. PMID: 33877041. <https://pubmed.ncbi.nlm.nih.gov/33877041/>
1334. Soyfer V, Gutfeld O, Shamaï S, Schlocker A, Merimsky O. COVID-19 Vaccine-Induced Radiation Recall Phenomenon. *Int J Radiat Oncol Biol Phys.* 2021 Jul 15;110(4):957-961. doi: 10.1016/j.ijrobp.2021.02.048. Epub 2021 Mar 4. PMID: 33677050; PMCID: PMC7930806.
1335. Stewart R, McDowell L. Radiation Recall Phenomenon Following COVID-19 Vaccination. *Int J Radiat Oncol Biol Phys.* 2021 Nov 1;111(3):835-836. doi: 10.1016/j.ijrobp.2021.06.023. Epub 2021 Jun 18. PMID: 34153381; PMCID: PMC8267757.
1336. Bril F, Al Diffalha S, Dean M, Fettig DM. Autoimmune hepatitis developing after coronavirus disease 2019 (COVID-19) vaccine: Causality or casualty? *J Hepatol.* 2021

- Jul;75(1):222-224. doi: 10.1016/j.jhep.2021.04.003. Epub 2021 Apr 20. PMID: 33862041; PMCID: PMC8056822.
1337. Honarmand AR, Mackey J, Hayeri R. Shoulder injury related to vaccine administration (SIRVA) following mRNA COVID-19 vaccination: Report of 2 cases of subacromial-subdeltoid bursitis. *Radiol Case Rep.* 2021 Dec;16(12):3631-3634. doi: 10.1016/j.radcr.2021.08.019. Epub 2021 Oct 1. PMID: 34611469; PMCID: PMC8484890.
1338. Cieślewicz A, Dudek M, Krela-Kaźmierczak I, Jabłeczka A, Lesiak M, Korzeniowska K. Pancreatic Injury after COVID-19 Vaccine-A Case Report. *Vaccines (Basel).* 2021 Jun 1;9(6):576. doi: 10.3390/vaccines9060576. PMID: 34205898; PMCID: PMC8228266.
1339. Chuaychoosakoon C, Parinyakhup W, Tanutit P, Maliwankul K, Klabklay P. Shoulder injury related to Sinovac COVID-19 vaccine: A case report. *Ann Med Surg (Lond).* 2021 Aug;68:102622. doi: 10.1016/j.amsu.2021.102622. Epub 2021 Jul 27. PMID: 34336204; PMCID: PMC8314792.
1340. Bril F. Autoimmune hepatitis developing after coronavirus disease 2019 (COVID-19) vaccine: One or even several swallows do not make a summer. *J Hepatol.* 2021 Nov;75(5):1256-1257. doi: 10.1016/j.jhep.2021.08.001. Epub 2021 Aug 10. PMID: 34384822; PMCID: PMC8352654.
1341. Hsiao YT, Tsai MJ, Chen YH, Hsu CF. Acute Transverse Myelitis after COVID-19 Vaccination. *Medicina (Kaunas).* 2021 Sep 25;57(10):1010. doi: 10.3390/medicina57101010. PMID: 34684047; PMCID: PMC8540274.
1342. Wharton BR, Doan KC, Wolcott ML. Shoulder Injury Related to COVID-19 Vaccine Administration: A Case Report. *JSES Rev Rep Tech.* 2021 Dec 4. doi: 10.1016/j.xrrt.2021.10.005. Epub ahead of print. PMID: 34913043; PMCID: PMC8641978.
1343. Pileri A, Guglielmo A, Raone B, Patrizi A. Chilblain lesions after COVID-19 mRNA vaccine. *Br J Dermatol.* 2021 Jul;185(1):e3. doi: 10.1111/bjd.20060. Epub 2021 Apr 26. PMID: 33904168; PMCID: PMC8239849.
1344. Fronza M, Thavendiranathan P, Chan V, Karur GR, Udell JA, Wald RM, Hong R, Hanneman K. Myocardial Injury Pattern at MRI in COVID-19 Vaccine-associated Myocarditis. *Radiology.* 2022 Feb 15:212559. doi: 10.1148/radiol.212559. Epub ahead of print. PMID: 35166587; PMCID: PMC8856022.
1345. Nune A, Iyengar KP, Goddard C, Ahmed AE. Multisystem inflammatory syndrome in an adult following the SARS-CoV-2 vaccine (MIS-V). *BMJ Case Rep.* 2021 Jul 29;14(7):e243888. doi: 10.1136/bcr-2021-243888. PMID: 34326117; PMCID: PMC8323360.

1346. Thappy S, Thalappil SR, Abbarh S, Al-Mashdali A, Akhtar M, Alkadi MM. Minimal change disease following the Moderna COVID-19 vaccine: first case report. *BMC Nephrol.* 2021 Nov 11;22(1):376. doi: 10.1186/s12882-021-02583-9. PMID: 34763669; PMCID: PMC8581957.
1347. Piccolo V, Bassi A, Argenziano G, Mazzatenta C, Cutrone M, Neri I, Grimalt R, Russo T. BNT162b2 mRNA COVID-19 vaccine-induced chilblain-like lesions reinforces the hypothesis of their relationship with SARS-CoV-2. *J Eur Acad Dermatol Venereol.* 2021 Aug;35(8):e493-e494. doi: 10.1111/jdv.17320. Epub 2021 May 10. PMID: 33914966; PMCID: PMC8242785.
1348. *Vaccines (Basel).* 2022 Feb 3;10(2):232. doi: 10.3390/vaccines10020232. PMID: 35214690; PMCID: PMC8874972.
1349. Dumortier J. Liver injury after mRNA-based SARS-CoV-2 vaccination in a liver transplant recipient. *Clin Res Hepatol Gastroenterol.* 2022 Jan;46(1):101743. doi: 10.1016/j.clinre.2021.101743. Epub 2021 Jun 16. PMID: 34146727; PMCID: PMC8214934.
1350. Miyazato Y, Yamamoto K, Yamada G, Kubota S, Ishikane M, Sugiyama M, Ueno M, Matsunaga A, Miyoshi-Akiyama T, Ishizaka Y, Ohmagari N. Multisystem Inflammatory Syndrome in Adult after First Dose of mRNA Vaccine. *Emerg Infect Dis.* 2022 Apr;28(4):870-872. doi: 10.3201/eid2804.212585. Epub 2022 Feb 11. PMID: 35148495; PMCID: PMC8962876.
1351. Türk SM, Öztürk Z, Karataş D, Gönüllü E. INACTIVATED COVID-19 VACCINE CAN INDUCE REACTIVE POLYARTHRITIS IN OLDER PATIENTS: REPORT OF TWO CASES. *Georgian Med News.* 2021 Oct;(319):100-102. PMID: 34749331.
1352. Amiya S, Fujimoto J, Matsumoto K, Yamamoto M, Yamamoto Y, Yoneda M, Kuge T, Miyake K, Shiroyama T, Hirata H, Takeda Y, Kumanogoh A. Case report: Acute exacerbation of interstitial pneumonia related to messenger RNA COVID-19 vaccination. *Int J Infect Dis.* 2022 Mar;116:255-257. doi: 10.1016/j.ijid.2022.01.031. Epub 2022 Jan 19. PMID: 35065256; PMCID: PMC8769663.
1353. Shirai T, Suzuki J, Kuniyoshi S, Tanno Y, Fujii H. Granulomatosis with Polyangiitis Following Pfizer-BioNTech COVID-19 Vaccination. *Mod Rheumatol Case Rep.* 2022 Mar 4:rxac016. doi: 10.1093/mrcr/rxac016. Epub ahead of print. PMID: 35246689; PMCID: PMC8903471.
1354. Di Mauro P, La Mantia I, Cocuzza S, Sciancalepore PI, Rasà D, Maniaci A, Ferlito S, Tundo I, Anzivino R. Acute Vertigo After COVID-19 Vaccination: Case Series and Literature Review. *Front Med (Lausanne).* 2022 Jan 6;8:790931. doi: 10.3389/fmed.2021.790931. PMID: 35071270; PMCID: PMC8770332.

1355. Di Mauro P, La Mantia I, Cocuzza S, Sciancalepore PI, Rasà D, Maniaci A, Ferlito S, Tundo I, Anzivino R. Acute Vertigo After COVID-19 Vaccination: Case Series and Literature Review. *Front Med (Lausanne)*. 2022 Jan 6;8:790931. doi: 10.3389/fmed.2021.790931. PMID: 35071270; PMCID: PMC8770332.
1356. Türk SM, Öztürk Z, Karataş D, Gönüllü E. INACTIVATED COVID-19 VACCINE CAN INDUCE REACTIVE POLYARTHRITIS IN OLDER PATIENTS: REPORT OF TWO CASES. *Georgian Med News*. 2021 Oct;(319):100-102. PMID: 34749331.
1357. Petruzzi M, Galleggiante S, Messina S, Della Vella F. Oral erythema multiforme after Pfizer-BioNTech COVID-19 vaccination: a report of four cases. *BMC Oral Health*. 2022 Mar 24;22(1):90. doi: 10.1186/s12903-022-02124-2. PMID: 35331228; PMCID: PMC8943505.
1358. Jeong J. Vestibular neuritis after COVID-19 vaccination. *Hum Vaccin Immunother*. 2021 Dec 2;17(12):5126-5128. doi: 10.1080/21645515.2021.2013085. Epub 2021 Dec 13. PMID: 34898387; PMCID: PMC8903955.
1359. Maurya MR, Ravi R, Pushparajan L. Serious adverse events following immunization after ChAdOx1 nCov-19 vaccination in India: a single center experience. *Pan Afr Med J*. 2021 Sep 29;40:66. doi: 10.11604/pamj.2021.40.66.29549. PMID: 34804334; PMCID: PMC8590259.
1360. Yano M, Morioka T, Natsuki Y, Sasaki K, Kakutani Y, Ochi A, Yamazaki Y, Shoji T, Emoto M. A Case of New-onset Type 1 Diabetes after Covid-19 mRNA Vaccination. *Intern Med*. 2022 Feb 8. doi: 10.2169/internalmedicine.9004-21. Epub ahead of print. PMID: 35135929.
1361. Ekizoglu E, Gezegen H, Yalınay Dikmen P, Orhan EK, Ertaş M, Baykan B. The characteristics of COVID-19 vaccine-related headache: Clues gathered from the healthcare personnel in the pandemic. *Cephalalgia*. 2022 Apr;42(4-5):366-375. doi: 10.1177/03331024211042390. Epub 2021 Sep 12. PMID: 34510919; PMCID: PMC8988457.
1362. Leber HM, Sant'Ana L, Konichi da Silva NR, Raio MC, Mazzeo TJMM, Endo CM, Nascimento H, de Souza CE. Acute Thyroiditis and Bilateral Optic Neuritis following SARS-CoV-2 Vaccination with CoronaVac: A Case Report. *Ocul Immunol Inflamm*. 2021 Aug 18;29(6):1200-1206. doi: 10.1080/09273948.2021.1961815. Epub 2021 Aug 17. PMID: 34402726.
1363. Sasaki H, Itoh A, Watanabe Y, Nakajima Y, Saisho Y, Irie J, Meguro S, Itoh H. Newly developed type 1 diabetes after coronavirus disease 2019 vaccination: A case report. *J Diabetes Investig*. 2022 Jan 27. doi: 10.1111/jdi.13757. Epub ahead of print. PMID: 35088548.

1364. Ganakumar V, Jethwani P, Roy A, Shukla R, Mittal M, Garg MK. Diabetic ketoacidosis (DKA) in type 1 diabetes mellitus (T1DM) temporally related to COVID-19 vaccination. *Diabetes Metab Syndr*. 2022 Jan;16(1):102371. doi: 10.1016/j.dsx.2021.102371. Epub 2021 Dec 21. PMID: 34954484; PMCID: PMC8687715.
1365. Yakou F, Saburi M, Hirose A, Akaoka H, Hirota Y, Kobayashi T, Awane N, Asahi N, Amagawa T, Ozawa S, Ohno A, Matsushita T. A Case Series of Ketoacidosis After Coronavirus Disease 2019 Vaccination in Patients With Type 1 Diabetes. *Front Endocrinol (Lausanne)*. 2022 Mar 18;13:840580. doi: 10.3389/fendo.2022.840580. PMID: 35370952; PMCID: PMC8971718.
1366. Jaiswal V, Nepal G, Dijamco P, Ishak A, Dagar M, Sarfraz Z, Shama N, Sarfraz A, Lnu K, Mitra S, Agarwala P, Naz S, Song D, Jaiswal A. Cerebral Venous Sinus Thrombosis Following COVID-19 Vaccination: A Systematic Review. *J Prim Care Community Health*. 2022 Jan-Dec;13:21501319221074450. doi: 10.1177/21501319221074450. PMID: 35142234; PMCID: PMC8841914.