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On behalf of the Steering Committee of the EED project

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Benchmarking

- EED Third Objective "to develop crucial information . . .
 And to allow further comparisons
- Member States Variety of System Designs
 - Hospital Based
 - Public Services
 - Contract Services
- Benchmarking Provides Conceptual Framework
 - System Performance
 - Clinical
 - Financial
 - Health Surveillance Monitoring

Benchmarking Process

- Requirements
 - Standardized Definitions
 - Reliable Data
 - Accurate Reporting
 - Common Measurements
- Process
 - Instrument Developed
 - Pilot
 - · Bonn, Germany
 - · Cantabria, Spain
 - West Midlands, UK
 - · Richmond VA, USA
 - Member States Input Gathered
 - Survey Conducted and Results Analyzed

SYSTEMS BENCHMARKING SURVEY

Ag	gency	Name:
1,	Gen	neral Information
	eme	mary Services Area – Defined as the geographical area for which the EMS agency has responsibility for regency medical responses AND transports received from a publicly designated emergency access phone number.
	1.1	Organizational/legal structure, please describe (Government, nonprofit, private)
	1.2	Reporting Period: Year ending (Period for data provided) (month, day, year)
	1.3	Agency's primary service area for emergency responses: Square Miles Square Kilometers (Circle Appropriate Response)
	1.4	Primary service area population
	1.5	Primary service area covers single or multiple jurisdictions: Single Multiple (Circle Appropriate Response)
	1.6	Emergency responses (Designated emergency telephone number, and/or prioritized as emergencies)
		B. Non-emergency responses (Transfers, scheduled, and/or critical care)
		C. Total responses (1.6A + 1.6B)
	1.7	Emergency transports (Designated emergency telephone number, and/or prioritized as emergencies)
		B. Non-emergency transports (Transfers, scheduled, and/or critical care)
		C. Total transports (1.7A + 1.7B)
	1.8	Percentage of emergency responses resulting in a refusal or denial% (A refusal or denial is defined as the arrival on scene and no patient is transported)

Participants

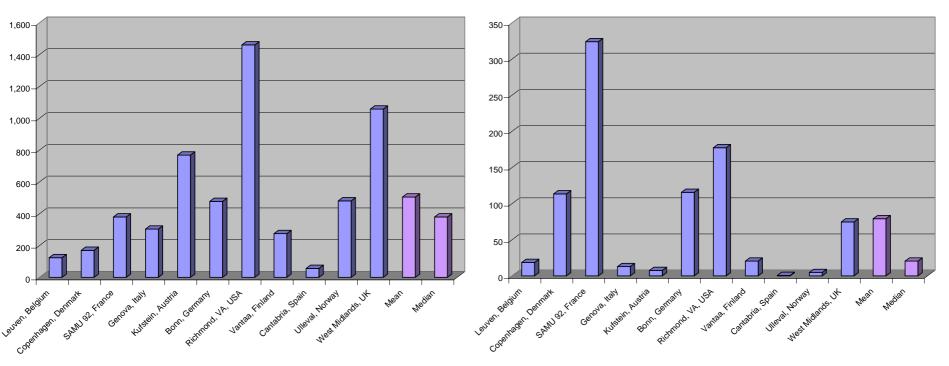
- Leuven, Belgium
- Copenhagen, Denmark
- SAMU 92, France
- Genova, Italy
- Kustein, Austria
- Bonn Germany

- Richmond VA, USA
- Vantaa, Finland
- Cantabria, Spain
- Ulleval, Norway
- West Midlands, UK

General Information and Response Time Reliability



Emergency Transports Per Square Kilometer

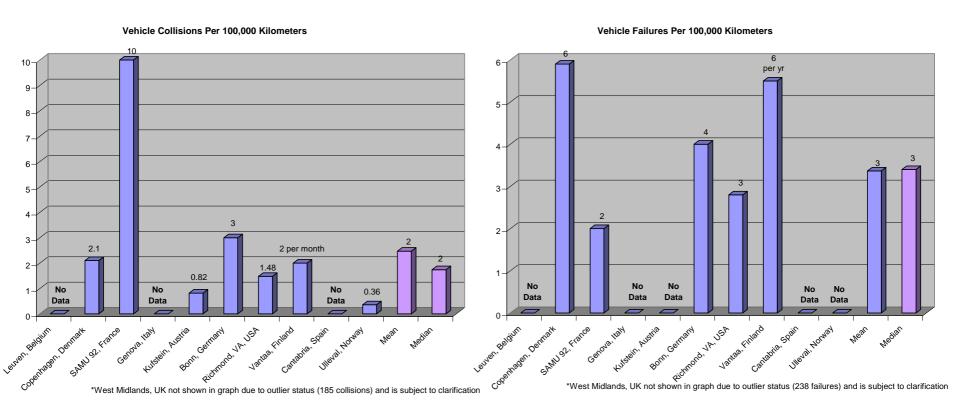


Life Threatening Emergency Response Time Standards

	Minutes /	Compliance
System	Seconds	Standard
Copenhagen, Denmark	4:45	0%
Genova, Italy	8:00	0%
Bonn, Germany	7:59	90%
Richmond, VA, USA	8:59	90%
Ulleval, Norway	9:39	0%
West Midlands, UK	8:00	75%

Mean	7:53	43%
Mode	8:00	NA

European Emergency Data (EED) Project – Benchmarking EMS in Europe Vehicle Reliability



Clinical Capability

Minimal ALS Staffing

	Number and Type			
System	of Staffing			
Leuven, Belgium	1 nurse, 1 physician			
Copenhagen, Denmark	1 intermediate, 1 basic			
SAMU 92, France	1 physician, 1 nurse, 1 EMT			
Genova, Italy	1 nurse, 1 physician			
Kufstein, Austria	1 physician, 1 EMT			
Bonn, Germany	1 paramedic, 1 physician			
Richmond, VA, USA	1 paramedic, 1 basic			
Vantaa, Finland	2 paramedics			
Cantabria, Spain	1 physician, 1 nurse, 2 basic			
Ulleval, Norway	1 paramedic, 1 intermediate			
West Midlands, UK	1 paramedic, 1 basic			

Clinical Certifications

		DUTI O	D41.0
		PHTLS	PALS
	ACLS	(or equivalent)	(or equivalent)
System	Certified	Certified	Certified
Leuven, Belgium	no data	no data	no data
Copenhagen, Denmark	85%	65%	no data
SAMU 92, France	no data	no data	no data
Genova, Italy	20%	60%	20%
Kufstein, Austria	100%	no data	no data
Bonn, Germany	100%	no data	no data
Richmond, VA, USA	97%	97%	96%
Vantaa, Finland	14%	not available	not available
Cantabria, Spain	100%	100%	100%
Ulleval, Norway	81%	98%	0%
West Midlands, UK	7%	20%	5%
Mean	67%	73%	44%
Median	85%	81%	20%

Clinical Capability (cont'd)

Emergency Medical Dispatchers Minimum Certification Required for Ambulance Dispatcher

System	EMD	Basic	Inter- mediate	Para- medic	CPR	No Certification Required	Fire Fighter	Other
Leuven, Belgium								yes
Copenhagen, Denmark						yes		
SAMU 92, France								yes
Genova, Italy					yes			yes
Kufstein, Austria	yes	yes			yes			
Bonn, Germany	yes			yes			yes	Fire squad leader
Richmond, VA, USA	yes		yes		yes			
Vantaa, Finland								National Training Certification
Cantabria, Spain						yes		
Ulleval, Norway			yes					Nurses
West Midlands, UK	yes							

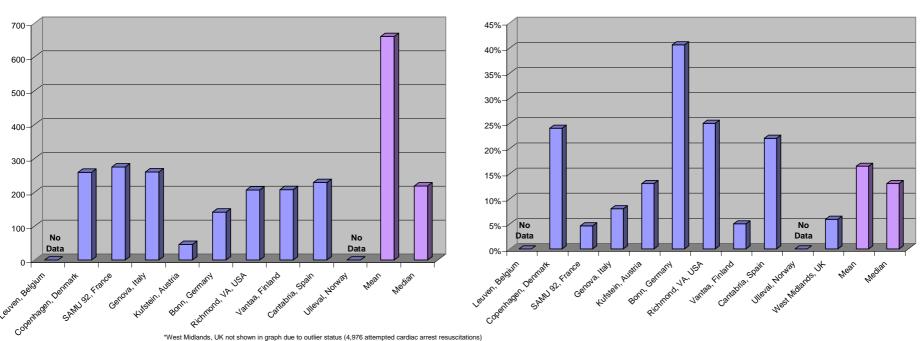
Quality Improvement Case Review with Chart Review

	Chart	
System	Review	Percentage
Leuven, Belgium	no data	
Copenhagen, Denmark	yes	3%
SAMU 92, France	yes	
Genova, Italy	no	
Kufstein, Austria	no	
Bonn, Germany	yes	100%
Richmond, VA, USA	yes	100%
Vantaa, Finland	no	100%
Cantabria, Spain	yes	100%
Ulleval, Norway	yes	
West Midlands, UK	yes	100%

Clinical Capability (cont'd)

Number of Attempted Cardiac Arrest Resuscitations (Cardiac etiology)

Percentage of Successful Resuscitations (Cardiac etiology, patient reaching hospital with cardiac rhythm & pulse)



European Emergency Data (EED) Project – Benchmarking EMS in Europe Economic Efficiency

