



# Mekong Basin Disease Surveillance

(MBDS)

MBDS Coordinating Office

MEKONG BASIN DISEASE SURVEILLANCE (MBDS)





# MEKONG BASIN DISEASE SURVEILLANCE (MBDS)



# MBDS: Mekong Basin Disease Surveillance Network

Cambodia  
China  
Laos  
Myanmar  
Thailand  
Vietnam

Land area: 2,570,426 sq km  
Population: 313,642,000

## MBDS Strategies

1. Cross Border Cooperation
2. Animal-Human interface
3. HRD
4. ICT Capacity
5. Lab Capacity
6. Risk Com
7. Policy Research

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# MBDS Cooperation



The Annual Coordinating & Executive Board Meeting  
Mekong Basin Disease Surveillance Project  
Siam City Hotel, Bangkok

PANDEMIC INFLUENZA TABLE TOP EXERCISE  
13 - 15 March 2007

# Mekong Basin Disease Surveillance



Cambodia



China



Lao PDR



Myanmar



Thailand



Vietnam

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Contact list of MBDS Cambodia

## MBDS CAMBODIA



### Prof. Sann Chan Soeung

*Executive Board*

Deputy Director General for Health  
151-153, Kampuchea Krom, MoH, Phnom Penh  
Tel : +855 12 933 344  
Fax : +855 23 426 167  
E-mail : sanns@nip.everyday.com.kh



### Dr. Sok Touch

*Country Coordinator*

*Coordinator for Cross Border Collaboration*  
Director CDC  
151-153, Kampuchea Krom, MoH, Phnom Penh  
Tel : +855 23 882 317  
Mobile : +855 12 856 848  
Fax : +855 23 882 317  
E-mail : touch358@moh.gov.kh,  
touch358@online.com.kh,  
chhanly@yahoo.com



### Dr. Ly Sovann

*Associate Country Coordinator*  
*Coordinator for Animal Human Interface and*  
*Community-based Surveillance*

Deputy Director CDC Department  
151-153, Kampuchea Krom, MoH, Phnom Penh  
Tel : +855 23 428 928  
Mobile : +855 12 825 424  
Fax : +855 23 428 928  
E-mail : sovann\_ly@online.com.kh



### Dr. Hong Rathmony

*Coordinator for Human Resource Development in*  
*Epidemiology*

Deputy Director of CDC Department  
151-153, Kampuchea Krom, MoH, Phnom Penh  
Tel : +855 23 880 532  
Mobile : +855 16 885 886  
Fax : +855 23 880 532  
E-mail : Rathmony\_hong@online.com.kh



### Mr Sok Samnang

*Coordinator for ICT Development*  
ICT Officer

151-153, Kampuchea Krom, MoH, Phnom Penh  
Tel : +855 23 428 928  
Mobile : +855 12 738 394  
Fax : +855 23 428 928  
E-mail : Samnang\_lati@yahoo.com



### Dr. Seng Heng

*Coordinator for Laboratory Capacity*  
Chief of Surveillance Bureau

151-153, Kampuchea Krom, MoH, Phnom Penh  
Tel : +855 23 722 103  
Mobile : +855 12 852 782  
Fax : +855 23 722 103  
E-mail : hengcdc@gmail.com



### Dr. Pen Rotha

*Coordinator for Risk Communication*  
Surveillance Officer

151-153, Kampuchea Krom, MoH, Phnom Penh  
Tel : +855 23 428 928  
Mobile : +855 92 911 669  
Fax : +855 23 428 928  
E-mail : Rotha1965@yahoo.com



### Dr. Ly Khun Bunnaran

*Coordinator for Policy Research*  
Surveillance Officer

151-153, Kampuchea Krom, MoH, Phnom Penh  
Tel : +855 23 428 928  
Mobile : +855 16 267 192  
Fax : +855 23 428 928  
E-mail : narannlee@gmail.com



### Dr Oum Sophallyn

*Coordinator for Admin and Finance*  
Surveillance Officer

151-153, Kampuchea Krom, MoH, Phnom Penh  
Tel : +855 23 428 928  
Mobile : +855 12 838 890  
Fax : +855 23 428 928  
E-mail : Oum\_sophallyn@yahoo.com



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# Mekong Basin Disease Surveillance



Cambodia



China



Lao PDR



Myanmar



Thailand



Vietnam

China(Yunnan, Guangxi)

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**Dr. Wang Liying**  
*Central Executive Board*  
Director, Division of Schistosomiasis  
Prevention and Control  
Department of Disease Control,  
Ministry of Health, P.R.China  
Tel : +86 10 6879 2372  
Email : [Wangly@moh.gov.cn](mailto:Wangly@moh.gov.cn)



**Ms. Lu Guoping**  
*Central Country Coordinator*  
Deputy Director  
Division of Asian and African Affairs  
Department of International Cooperation  
Ministry of Health, P.R. China  
Tel : +86 10 6879 2296  
Fax : +86 10 6879 2280  
Email : [luggp@moh.gov.cn](mailto:luggp@moh.gov.cn)

China(Yunnan, Guangxi)

Contact list of MBDS Yunnan, China

- ☐ Home
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**MBDS YUNNAN**



**Dr. Lu Lin**  
*Coordination Team Leader*  
Director General, Yunnan CDC  
158 Dongsi street, Kunming City  
Yunnan 650022, P.R. China  
Tel : +86 871 362 0990



**Dr. Cheng Chun**  
*Associate Yunnan Coordinator*  
*Coordinator for Cross Border Collaboration*  
*Coordinator for Human Resource Development in*  
*Epidemiology*  
*Coordinator for Policy Research*  
Deputy Director, Administration Office, YNCDC  
158 Dongsi street, Kunming City  
Yunnan 650022, P.R. China  
Tel : +86 871 363 1301  
Mobile : +86 132 0889 5647  
Fax : +86 871 363 1301  
E-mail : [chengchun@hotmail.com](mailto:chengchun@hotmail.com)

China(Yunnan, Guangxi)

Contact list of MBDS Guangxi, China

- ☐ Home
- ☐ MAP
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- ☐ Project Plan
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**MBDS GUANGXI**



**Dr. Dong Baiqing**  
*Coordination Team Leader*  
*Coordinator for Human Resource Development in*  
*Epidemiology*  
Director, Guangxi CDC  
18 Jinzhou Road, Nanning, Guangxi 530028, P.R. China  
Tel : +86 771 251 8699  
Mobile : +86 139 0771 4863  
Fax : +86 771 251 8768  
E-mail : [dbq999@tom.com](mailto:dbq999@tom.com)



**Dr. Yang Jinye**  
*Coordinator for Cross Border Collaboration*  
Vice Director, Guangxi CDC  
18 Jinzhou Road, Nanning, Guangxi 530028, P.R. China  
Tel : +86 771 251 8833  
Mobile : +86 133 6781 1883  
Fax : +86 771 251 8768  
E-mail : [yjjyy172@163.com](mailto:yjjyy172@163.com)



**Dr. Chang Litao**  
*Coordinator for Animal Human Interface and*  
*Community-based Surveillance*  
Chief, Acute Infectious Diseases Control, YNCDC  
158 Dongsi street, Kunming City  
Yunnan 650022, P.R. China  
Tel : +86 871 362 3117  
Mobile : +86 159 2511 5132  
Fax : +86 871 363 2033  
E-mail : [clt1582@hotmail.com](mailto:clt1582@hotmail.com)



**Mr. Xiang Kun**  
*Coordinator for ICT Development*  
Chief, Information Center, YNCDC  
158 Dongsi street, Kunming City  
Yunnan 650022, P.R. China  
Tel : +86 871 362 1177  
Mobile : +86 137 0870 6600  
Fax : +86 871 362 1177  
E-mail : [xiangkun6@gmail.com](mailto:xiangkun6@gmail.com)



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Cambodia



China



Lao PDR



Myanmar



Thailand



Vietnam

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### Dr. Bounlay Phommasack

*Executive Board*  
*Coordinator for Animal Human Interface and Community-based Surveillance*  
*Coordinator for Policy Research*  
Deputy Director General  
Department of Hygiene and Prevention  
Director of National Avian Human Influenza Coordinating Office (NAHICO)  
K.m.3, Thadeua Road, Vientiane, Lao P.D.R.  
Tel : +856 21 242 980, +856 21 264 324  
Mobile : +856 20 551 7522  
Fax : +856 21 242 981, +856 21 264 326  
E-mail : [onyvanh@theglobalfundlao.org](mailto:onyvanh@theglobalfundlao.org), [Blnahico@laopdr.com](mailto:Blnahico@laopdr.com)



### Dr. Nyphonh Chanthakoummane

*Country Coordinator*  
*Coordinator for Cross Border Collaboration*  
*Coordinator for Human Resource Development in Epidemiology*  
Senior Technical Officer  
Department of Hygiene and Prevention, Ministry of Health  
Km.3, Thadeua Road, Vientiane, Lao P.D.R.  
Tel : +856 21 242 980  
Mobile : +856 20 980 3460  
Fax : +856 21 242 981



### Dr. Lastmy Vongkhamsoo

*Associate Country Coordinator*  
Senior Technical Officer  
National Avian Human Influenza Coordination Office  
K.m.3, Thadeua Road, Vientiane, Lao P.D.R.  
Tel : +856 21 264 324  
Mobile : +856 20 550 9955  
Fax : +856 21 264 326  
E-mail : [nahico@laopdr.com](mailto:nahico@laopdr.com)

NO PHOTO

### Dr. Kongsay

*Coordinator for ICT Development*  
Senior Technical Officer  
Center for Malaria Parasite and Entomology  
K.m.3, Thadeua Road, Vientiane, Lao P.D.R.  
Tel : +856 21 214 040  
Mobile : +856 20 782 9347  
Fax : +856 21 218 131  
E-mail : [oulkeo@yahoo.com](mailto:oulkeo@yahoo.com)



### Dr. Khamphithoune

*Coordinator for Risk Communications*  
Senior Technical Officer  
Center of Health Education and Information  
K.m.3, Thadeua Road, Vientiane, Lao P.D.R.  
Tel : +856 21 214 039  
Mobile : +856 20 518 3187  
Fax : +856 21 213 970  
E-mail : [khamphithoune@hotmail.com](mailto:khamphithoune@hotmail.com)



### Ms. Onyvanh

*Secretary*  
National Avian Human Influenza Coordination Office  
K.m.3, Thadeua Road, Vientiane, Lao P.D.R.  
Tel : +856 21 242 980  
Fax : +856 21 242 981  
E-mail : [onivanh@yahoo.com](mailto:onivanh@yahoo.com)

Contact List of MBDS Savannakhet Province, Lao PDR



### Dr. Panom Phongmany

*Province Team Leader*  
Deputy Director  
Savannakhet Health Department  
Mobile: +856 20 554 0943  
E-mail: [pphongmany@yahoo.com](mailto:pphongmany@yahoo.com)



### Dr. Tiengkham Pongvongsa

*Province Coordinating Committee*  
Chief of Station of Malariaology  
Parasitology and Entomology  
Mobile: +856 20 564 0403  
E-mail: [tpongvongsa@hotmail.com](mailto:tpongvongsa@hotmail.com)



### Dr. Bongsouvanh Phanthavongsa

*Province Project Secretariat*  
Chief of Technical Office  
Savannakhet Health Department  
Mobile: +856 20 586 9859  
E-mail: [bongsouvanh@hotmail.com](mailto:bongsouvanh@hotmail.com)



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Cambodia



China



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Myanmar



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Vietnam



**Prof. Saw Lwin**  
*Executive Board*  
Deputy Director General (Disease Control)  
Department of Health  
Nay Pyi Taw City, Union of Myanmar  
Tel : +95 67 411 389  
Email: [d-dc-doh@myanmar.com.mm](mailto:d-dc-doh@myanmar.com.mm),  
c/o [ihdmoh@mptmail.net.mm](mailto:ihdmoh@mptmail.net.mm)



**Prof. Soe Lwin Nyein**  
*Country Coordinator*  
Director (Epidemiology)  
Department of Health  
Nay Pyi Daw City, Union of Myanmar  
Tel : +95 67 411391  
Mobile : +95 950 012 10  
Fax : +95 67 411 391  
E-mail : [mbds@mptmail.net.mm](mailto:mbds@mptmail.net.mm),  
c/o [ihdmoh@mptmail.net.mm](mailto:ihdmoh@mptmail.net.mm),  
[drslnyein@gmail.com](mailto:drslnyein@gmail.com)



**Dr. Ne Win**  
*Director (National Health Laboratory)*  
Department of Health  
Nay Pyi Daw City, Union of Myanmar  
E-mail : [dmewin07@gmail.com](mailto:dmewin07@gmail.com)



**Dr. Win Thein**  
*Deputy Director (National Health Laboratory)*  
Department of Health  
Nay Pyi Daw City, Union of Myanmar



**Dr. Ohn Kyaw**  
*Coordinator for Animal Human Interface and Community-based Surveillance*  
Director  
Livestock Breeding and Veterinary Department  
Ministry of Livestock & Fisheries  
Union of Myanmar  
Tel : +95 1 640 921  
Fax : +95 1 642 927  
Email: [lbvd@mptmail.net.mm](mailto:lbvd@mptmail.net.mm)



**Dr. Than Myint**  
Deputy Director (Planning & Statistics)  
Livestock Breeding and Veterinary Department  
Ministry of Livestock & Fisheries  
Union of Myanmar  
Tel : +95 1 642 453, +95 1 644 271  
Fax : +95 1 642 927  
Email: [lbvd@mptmail.net.mm](mailto:lbvd@mptmail.net.mm)



**Dr. Myint Htay**  
Deputy Director  
Ayawaddy Division  
Livestock Breeding and Veterinary Department  
Ministry of Livestock & Fisheries  
Union of Myanmar  
Email: [lbvd@mptmail.net.mm](mailto:lbvd@mptmail.net.mm)



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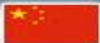
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## MBDS THAILAND



**Dr. Suwit Wibulpolprasert**  
*Former Executive Board (2001 - 2009)*  
Senior Advisor on Disease Control  
Ministry of Public Health (MOPH)  
Tiwanond Road, Nonthaburi 11000, Thailand  
Tel : +66 2 590 1015  
Mobile : +66 81 823 6517  
Fax : +66 2 591 1136  
E-mail : [suwit@health.moph.go.th](mailto:suwit@health.moph.go.th)



**Dr. Kumnuan Ungchusak**  
*Executive Board*  
Senior expert in Preventive Medicine (Epidemiology)  
IHR focal person  
Bureau of Epidemiology,  
Department of Disease Control (DDC), MOPH  
6th floor, Building of the Permanent Secretary Office  
Tiwanond Road, Nonthaburi 11000, Thailand  
Tel : +66 2 590 1786  
Mobile : +66 81 932 1610  
Fax : +662 590 1784  
E-mail : [kum@health.moph.go.th](mailto:kum@health.moph.go.th)



**Dr. Pasakorn Akarasewi**  
*Country Coordinator*  
Director, Bureau of Epidemiology  
Department of Disease Control (DDC), MOPH  
6th floor, Building of the Permanent Secretary Office  
Tiwanond Road, Nonthaburi 11000, Thailand  
Tel : +66 2 590 1776  
Mobile : + 66 81 911 2184  
Fax : +662590 1784  
E-mail : [pasktb@health.moph.go.th](mailto:pasktb@health.moph.go.th)



**Dr. Preecha Prempree**  
*Associate Country Coordinator*  
*Coordinator for Policy Research*  
Bureau of Epidemiology, DDC, MOPH  
Tiwanond Road, Nonthaburi 11000, Thailand  
Tel : +662 590 1776  
Mobile : +66 89 501 6342  
Fax : +662 590 1784  
E-mail : [prempree@hotmail.com](mailto:prempree@hotmail.com)



**Dr. Chuleeporn Jiraphongsa**  
*Coordinator for Human Resource Development in Epidemiology*  
Bureau of Epidemiology, DDC, MOPH  
Tiwanond Road, Nonthaburi 11000, Thailand  
Tel : +662 590 1733  
Mobile : +66 81 611 2123  
Fax : +662 5918581  
E-mail : [chulee@health.moph.go.th](mailto:chulee@health.moph.go.th)



**Mrs. Ladarat Phatinawin**  
*Coordinator for ICT Development*  
Bureau of Epidemiology, DDC, MOPH  
Tiwanond Road, Nonthaburi 11000, Thailand  
Tel : +662 590 1731  
Fax : +662 590 1784



**Ms. Pamornrat Asavasena**  
*Coordinator for Cross Border Collaboration*  
Planning Division, DDC, MOPH  
Tiwanond Road, Nonthaburi 11000, Thailand  
Tel : +662 590 3250  
Mobile : +66 89 963 8025  
Fax : +662 590 3082, +662 965 9588  
E-mail : [pasa\\_tcc@yahoo.com](mailto:pasa_tcc@yahoo.com)



**Dr. Rungrueng Kitphati**  
*Coordinator for Laboratory Capacity*  
Deputy Director  
National Institute of Health  
Department of Medical Sciences, MOPH  
Tiwanond Road, Nonthaburi 11000, Thailand  
Tel : +66 2 951 0000, ext 99248, 99614  
Mobile : +66 81 989 1978  
Fax : +66 2 951 2153  
E-mail : [rungrueng@dmsc.moph.go.th](mailto:rungrueng@dmsc.moph.go.th)  
[rungruengk@hotmail.com](mailto:rungruengk@hotmail.com)



**Dr. Teerasak Chuxnum**  
*Coordinator for Animal Human Interface and Community-based Surveillance*  
Bureau of Epidemiology, DDC, MOPH  
Tiwanond Road, Nonthaburi 11000, Thailand  
Tel : +66 2 590 1739  
Mobile : +66 89 536 1585  
Fax : +662 590 1784  
E-mail : [tchuxnum@health3.moph.go.th](mailto:tchuxnum@health3.moph.go.th)



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**Dr. Nguyen Hoang Long**  
*Executive Board*  
Vice Director, Planning & Finance Department  
138A, Giang Vo, Hanoi, Vietnam  
Tel : +844 273 2262  
Mobile : +84 91350 3255  
Fax : +844 846 3056  
E-mail : [longmoh@yahoo.com](mailto:longmoh@yahoo.com)



**Dr. Nguyen Dang Vung**  
*Country Coordinator*  
Coordinator for Cross Border Collaboration  
Coordinator for Animal Human Interface and  
Community-based Surveillance  
Coordinator for Policy Research  
Senior Officer, Health Policy Unit  
Planning & Finance Department, Ministry of Health  
138A, Giang Vo, Hanoi, Vietnam  
Tel : +844 823 1440 (ext 17)  
Mobile : +84 947 484 988  
Fax : +844 846 3056  
E-mail : [ndvung755@yahoo.com](mailto:ndvung755@yahoo.com)



**Dr. Tran Thanh Duong**  
*Associate Country Coordinator*  
Coordinator for Human Resource Development in  
Epidemiology  
Head, Epidemiology Department  
Preventive Medicine Department, Ministry of Health  
Lan 115, Nui Truc street, Hanoi, Vietnam  
Mobile : +84 915 057 688  
E-mail : [tranthanhduong@hotmail.com](mailto:tranthanhduong@hotmail.com)



**Mr. Duong Duc Thien**  
*Coordinator for ICT Development*  
Secretary  
Expert, Planning & Finance Department, Ministry of Health  
138A, Giang Vo, Hanoi, Vietnam  
Tel : +844 823 1440 (ext 17)  
Mobile : +84 904 393 705  
Fax : +844 846 3056  
E-mail : [dducthien@yahoo.com](mailto:dducthien@yahoo.com)



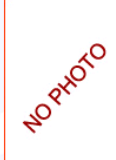
**Dr. Tran Kim Phung**  
*Site Coordinator*  
Vice Director  
Quang Tri Health Department  
Tran Hung Dao, Dong Ha town, Vietnam  
Tel: +84 53 211 772  
Fax: +84 53 852 586  
Email: [trankimphung@vnn.vn](mailto:trankimphung@vnn.vn)



**Dr. Phung Xuan Ty**  
*Director*  
Quang Tri Preventive Medicine Department  
Tel: +84 53 211 772  
Fax: +84 53 852 586



**Dr. Van Thanh**  
*Director*  
Huong Hoa hospital  
Tel: +84 53 880 629  
Fax: +84 53 880 629

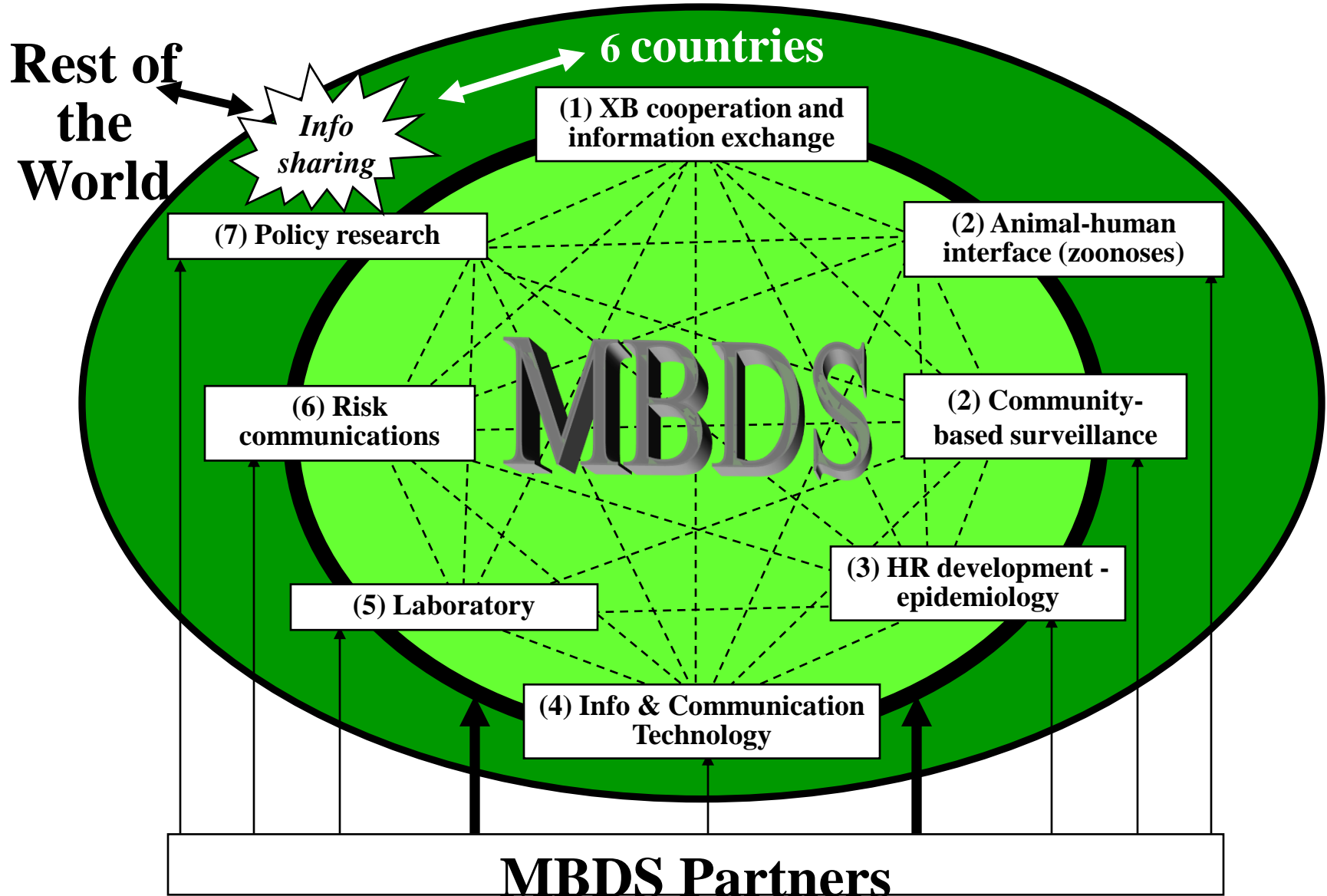


**Mr. Do Huu Dung**  
*Associate Coordinator for Animal Human Interface and  
Community-based Surveillance*  
Senior expert, Epidemiology Division  
Department of Animal Health  
Ministry of Agriculture & Rural Development, Vietnam  
Tel: +84 913 022 039  
Email: [dungdah@gmail.com](mailto:dungdah@gmail.com)



**Ms. Hoang Thi Giang**  
*Accountant*  
Accountant, Cabinet, Ministry of Health  
138A, Giang Vo, Hanoi, Vietnam  
Tel : +844 273 2273 (ext 1105)  
Mobile : +84 904 267 658  
Fax : +844 846 3056  
Email: [giang\\_moh@yahoo.com](mailto:giang_moh@yahoo.com)

# MBDS Programming is Based on 7 Core Strategies



## Objective 1.1: Maintain and expand cross-border (XB) sites

### Activities

- Identify new cross-border
- Exchange disease information (24 hours, weekly, monthly, quarterly)
- Convene regular (e.g., twice yearly) XB meetings
- Conduct supervisory visits and monitoring
- Establish and maintain border health quarantine
- Train public health and healthcare workers
- Procure and distribute PPE
- Ensure adequate infection control procedures
- Ensure capacity for patient isolation
- Ensure adequate local medical surge capacity planning
- Use resource mapping of all MBDS and other (non-MBDS) XB sites

Objective 2.1: Strengthen collaboration and information sharing between the human and animal health sectors at local to national and sub-regional levels across MBDS countries.

Activities:

- Complete the identification of priority diseases and relevant stakeholders for collaboration and information sharing between animal and human health sectors from national to provincial and local level.
- Develop and implement mechanisms for collaboration and information sharing between the animal and human health sectors, and orient relevant stakeholders .
- Design model tabletop exercise(s) (TTX) at province level, and distribute CD with TTX(s) to MBDS countries for use.
- Develop (and update as needed) a detailed plan/protocol for joint outbreak investigation, including technical procedures/steps and logistics that draw from existing guidance, e.g., WHO, Thai FETP, US-CDC.
- Implement regular information sharing between animal and human health sectors at all levels: National, province, district.
- Share information and experiences across MBDS countries about animal-human interface, for example taking advantage of MBDS Regional Forums for such a purpose
- Conduct at least one outbreak investigation, TTX or drill at each cross-border site each year, seeking to conduct *joint investigation of a zoonotic disease* as a particular priority.

Objective 2.2: Improve community-based surveillance

Activities:

- Select priority diseases for community surveillance purposes (within the context of countries' overall disease surveillance systems).
- Develop guidelines for community-based surveillance, including coordination between departments responsible for human and animal health if/as appropriate
- Build and test one or more models for community-based surveillance in selected XB sites, then evaluate and complete model and discuss more broadly at a MBDS regional conference
- Train volunteers and village health workers for community-based surveillance and implement on an ongoing basis for the early detection of priority diseases
- Maintain regular reporting from communities based on reporting requirements

Objective 3.1: Strengthen field epidemiology capabilities from national to local level and networking across MBDS countries

Activities:

- Review each country's human resources for epidemiology at all levels on an ongoing basis, and revise country plan for capacity building as needed
- Develop case studies for cross-border disease outbreak investigations, to be used for short- and long-term field epidemiology training
- Incorporate outbreak investigation into RRT/FETP training by conducting or providing technical support to outbreak investigations at cross-border or other areas
- Enhance short-course training in each member country by supporting curriculum design and training or providing lecturers/experts
- Support participants from member countries to existing workshop on laboratory and GIS
- Train epidemiology trainers (TOT): Train FETP alumni as training staff for countries establishing new long-term and short-term epidemiology training programs
- Support long-term and short-term epidemiology training: Support MD/DVM to attend 2 years program; support health officer/MD/DVM/lab technician to attend short-term "Surveillance and Rapid Response for Public Health Emergency Course"
- Use resource mapping as a mechanism for monitoring epidemiology capacity at local, provincial and possibly central levels.
- Conduct MBDS annual academic meeting of FETP
- Conduct periodic evaluation of short- and long-term epidemiology training

Objective 4.1: Establish ICT in support of disease surveillance and response at relevant local, provincial and national sites

Activities

- Policy advocacy: Present an ICT proposal for approval by MBDS leadership (consistent with IHR, identifying relevance to different stakeholders, enhancing multi-sector collaboration, identifying key role of ICT in the network)
- Assess ICT technical capacity and needs at relevant levels in each MBDS country
- Agree upon basic contents of ICT content and applications, among relevant stakeholders
- Pilot test ICT development, capacity building and implementation in one country first (Cambodia)
- Build upon experiences from pilot testing to establish ICT capabilities in relevant areas of other MBDS countries (e.g., equipment/supplies, training)
- Develop a regional policy for standardized data sharing, including recommendations for interoperability and licensing.
- Use 2-way ICT-based communications between local, provincial and central levels in routine surveillance reporting and outbreak investigation (examples include equipment and protocols for communications through internet, cell phone SMS messaging, satellite telephones, telephone hotline, email).
- Operationally test communications across MBDS countries (among Country Coordinators and with Coordinating Office) at least twice per year, or at a frequency determined by MBDS members.
- Use resource mapping to monitor status of ICT capacity in relevant project areas.

## Objective 5.1: Improve laboratory capacity and proficiency for core diseases

### Activities

- Acquire equipment and reagents based on needs and capacity assessment
- Set up laboratories following Good Laboratory Practices (GLP)
- Develop protocols for specimen collection, identification and transport, consistent with WHO guidelines
- Conduct training for laboratory testing of core disease
- Conduct laboratory evaluation within two years for each laboratory
- Conduct proficiency testing at least annually, using blind specimens
- Monitor laboratory network through resource mapping, to depict such elements as primary and reference laboratory capacity, by pathogen, organization, and other relevant parameters.
- Share experiences at annual MBDS Regional Forum and/or other relevant venues

## Objective 5.2: Promote adoption appropriate new diagnostic technologies

### Activities

- Identify new diagnostic technologies relevant to MBDS priority diseases, e.g, RT-PCR for influenza A/H5N1 and H1N1, PFGE
- Identify appropriate laboratory/-ies in MBDS countries for new technology
- Provide training in new diagnostic technologies to relevant laboratories
- Adopt standard testing protocol for new diagnostic technologies
- Procure and distribute new diagnostic test reagents
- Add new diagnostic tests to regular proficiency testing program



Objective 6.1: Develop and implement effective risk communications across MBDS, aligned with ASEAN plus three EID project and APSED.

Activities

- Establish risk communication task force/working group (high level officials, experts and publications, and dissemination)
- Conduct risk communications needs assessment in each country
- Develop an overall communication framework and a more detailed risk communication plan for the region, through one or more workshops to include communication specialists and appropriate representatives from MBDS member countries and taking into account the evolution of ASEAN plus three Risk Communication Strategy and APSED
- Develop risk communication curriculum by taskforce committee (communication specialist) in cooperation with WHO and pre-test it at existing national health education program
- Train facilitators using training materials
- Train different levels, different categories of audiences
- Establish public health emergency telephone hotlines
- Integrate health/risk communication messages into existing national dissemination of information (health education system)
- Develop and test risk communication materials (e.g., for TV, radio, print), together with appropriate representatives from the media
- Implement communications when appropriate situations arise, to sensitize governments, health personnel, teachers, other stakeholders
- Implement risk communication when appropriate situations arise, to mobilize the public throughout the country
- Monitor and evaluate risk communications efforts

## Objective 7.1: Conduct policy research in each MBDS country and apply results locally

### Main Activities:

- Identify at least one priority for research each year, e.g., related to a specific core strategy or other element of MBDS programming and frame the research question(s)
- Determine if any technical assistance is needed and potential source of TA, e.g., from another MBDS country or an external partner, for protocol design, implementation, analysis and/or write up
- Design study protocol (background and justification, proposed study design, analysis plan, dissemination plan, timeline, resource requirements)
- Seek/obtain funding
- Conduct study, analyze results, write up report
- Apply research results in the country and measure outcomes

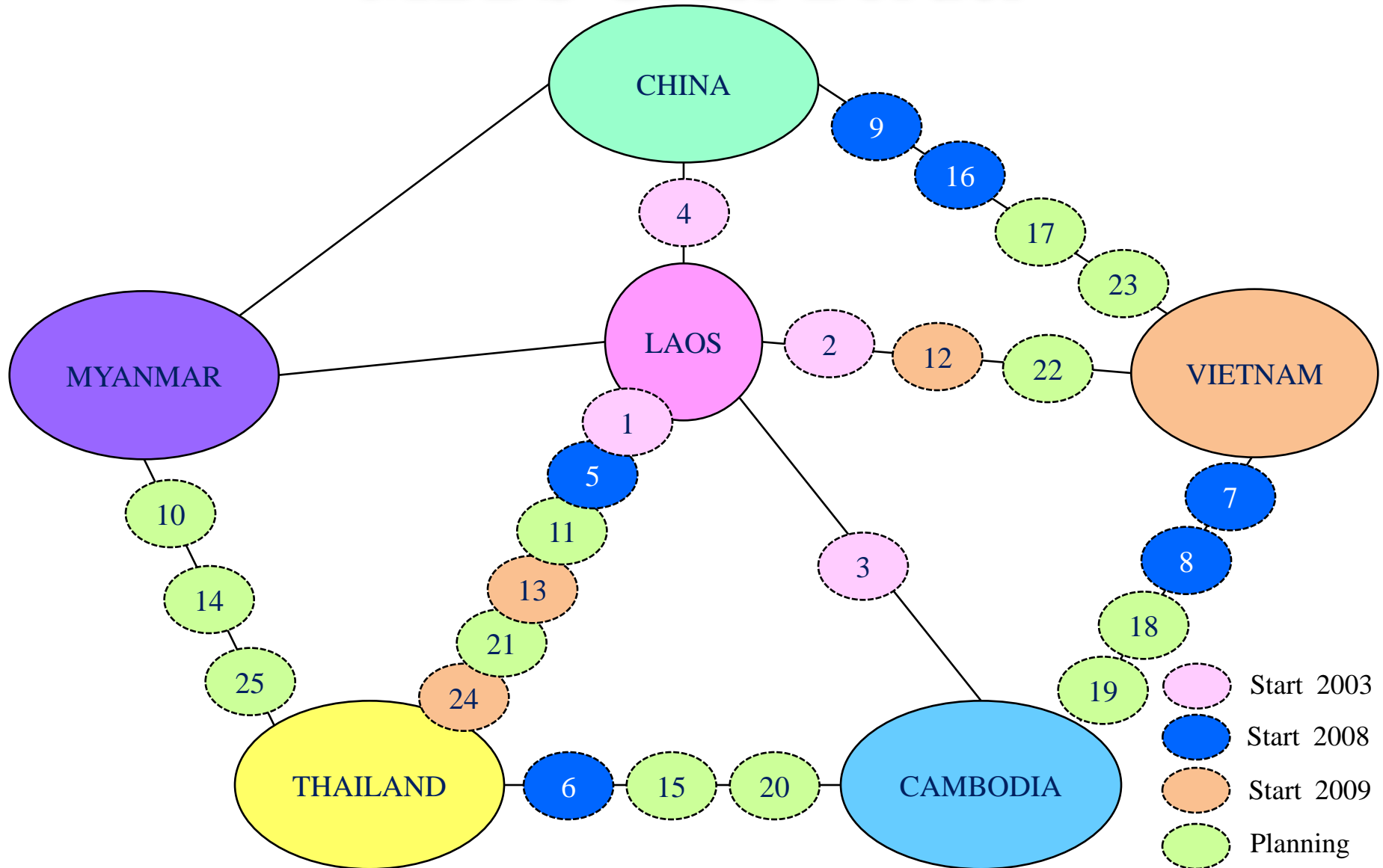
## Objective 7.2: Disseminate research results across MBDS countries and beyond and apply where appropriate

### Main Activities

- Determine appropriate mechanism and timing for sharing research results with other MBDS countries on a case by case basis for each research study (e.g., via meetings, MBDS newsletter, listserv)
- Determine if it is appropriate to disseminate results beyond the MBDS community, and if so, best channel (e.g., publication, presentation at international meeting)
- Determine if technical assistance is needed and potential source (e.g., to support preparation of written report, manuscript for journal publication, or meeting presentation)
- Prepare product for dissemination (e.g., for MBDS newsletter, journal publication, meeting presentation)
- Disseminate research results
- Apply results where appropriate and measure outcomes

# **MBDS XB Model, Sites and Report Format**

# MBDS Cross Border



# Description

1. Savannakhet (Laos) - Mukdaharn (Thailand)
2. Savannakhet (Laos) - Quang Tri (Vietnam)
3. Champasak (Laos) - Stung Treng (Cambodia)
4. Luang Namtha (Laos) - Mengla (China)
5. Bo Kaeo (Laos) - Chiang Rai (Thailand)
6. Sakaeo (Thailand) - Banteay Meacheay (Cambodia)
7. Takaeo (Cambodia) - An Giang (Vietnam)
8. Kampot (Cambodia) - Kien Giang (Vietnam)
9. Lai Chau (VIET) - Luchun (CHI-Y)
10. Chiang Rai (Thailand) - Tachilek (Myanmar)
11. Champasak (Laos) - Ubon Ratchathani (Thailand)
12. Borikhamxay (Laos) - Ha Tinh (Vietnam)
13. Vientiane (Laos) - Nongkhai (Thailand)
14. Mae Sot (Thailand) - Myawaddy (Myanmar)
15. Chanthaburi (Thailand) – Battambang and Pailin (Cambodia)
16. Lang Son (Vietnam) – Ping Xiang (China)
17. Quang Ninh (Vietnam) – Dong Xiang (China)
18. Svay Rieng (Cambodia) - Tay Ninh (Vietnam)
19. Kampong Cham (Cambodia) - Tay Ninh (Vietnam)
20. Koh Kong (Cambodia) - Trat (Thailand)
21. Kammouane (Laos) - Nakorn Phanom (Thailand)
22. Khammouane (Laos) - Quang Binh (Vietnam)
23. Quang Ninh (Vietnam) – Quangxi (China)
24. Nan (Thailand) – Sayabury (Laos)
25. Kaoy Thauy (Myanmar) – Ranong (Thailand)

# MBDS Cross border information exchange

## Schedule of exchange and content :

- ***Within 24 hours of Diagnosis:*** H1N1, AFP, SARS, Cholera/ Severe Diarrhea, Encephalitis, Tetanus, Meningitis, Diphtheria, PHEIC
- ***Every Monday of the week:*** Leptospirosis, Chikungunya, Dengue Fever, Typhoid Fever , Measles
- ***Every 5<sup>th</sup> day of each Month:*** Malaria, Pneumonia
- ***Quarterly (Every three months):*** HIV/AIDS, Tuberculosis

# MBDS XB Report Format

XXXXX Provincial Health Office, Country

XXXXXX province

MBDS Cross-Border Coordinator

No. XX /Country Name

MBDS Cross – Border Reporting Between  
XXXXX (Country Name)/ XXXXX (Country Name)

Report: " within 24 hours; " weekly no: " Month: " Quarterly no:

Date: DD / MM - DD / MM, YYYY

ID	Diseases	Cumulative from 01st week to 52nd week 2010		Current week		Date founded	Affected Areas villages	Risk factors/Presumable causes	Remark
		Cases	Deaths	Cases	Deaths				
1	H1N1/ H5N1								
2	AFP								
3	SARS								
4	Cholera /Severe Diarrhea								
5	Encephalitis								
6	Tetanus								
7	Meningitis								
8	Diphtheria								
9	PHEIC								
10	Leptospirosis								
11	Chikungunya								
12	Dengue fever								
13	Typhoid fever								
14	Measles								
15	Malaria								
16	Pneumonia								
17	HIV/AIDs								
18	Tuberculosis								

Remark: Bold letters are border districts

Reported by: XXXXX

 24 Hours Report  
 Weekly Report

 Monthly Report  
 Quarterly Report



# MBDS XB

## • MBDS XB Thailand

- Mukdahan
- Sakaeo
- Nan
- Mae Sot ★
- **Trat**
- Ranong ★
- Chiang Rai
- Nongkhai
- Ubon Ratchathani ★
- Chanthaburi ★
- Nakorn Phanom ★

## • MBDS XB Laos

- Savannakhet
- Bo Kaeo
- Vientiane
- Khammouane ★
- Champasak
- Borikhamxay
- Luang Namtha
- Sayabury

## • MBDS XB China

- Mengla
- Ping Xiang
- Quangxi ★
- Luchun
- Dong Xiang ★

## • MBDS XB Cambodia

- Stung Treng
- Takaeo
- Battambang and Pailin ★
- Kampong Cham ★
- Banteay Meacheay
- Kampot ★
- Svay Rieng ★
- **Koh Kong**

## • MBDS XB Vietnam

- Quang Tri
- Kien Giang ★
- Ha Tinh
- Quang Ninh ★
- Quang Binh ★
- An Giang
- Lai Chau
- Lang Son
- Tay Ninh ★

## • MBDS XB Myanmar

- Tachilek ★
- Kauy Thauy ★
- Myawaddy ★

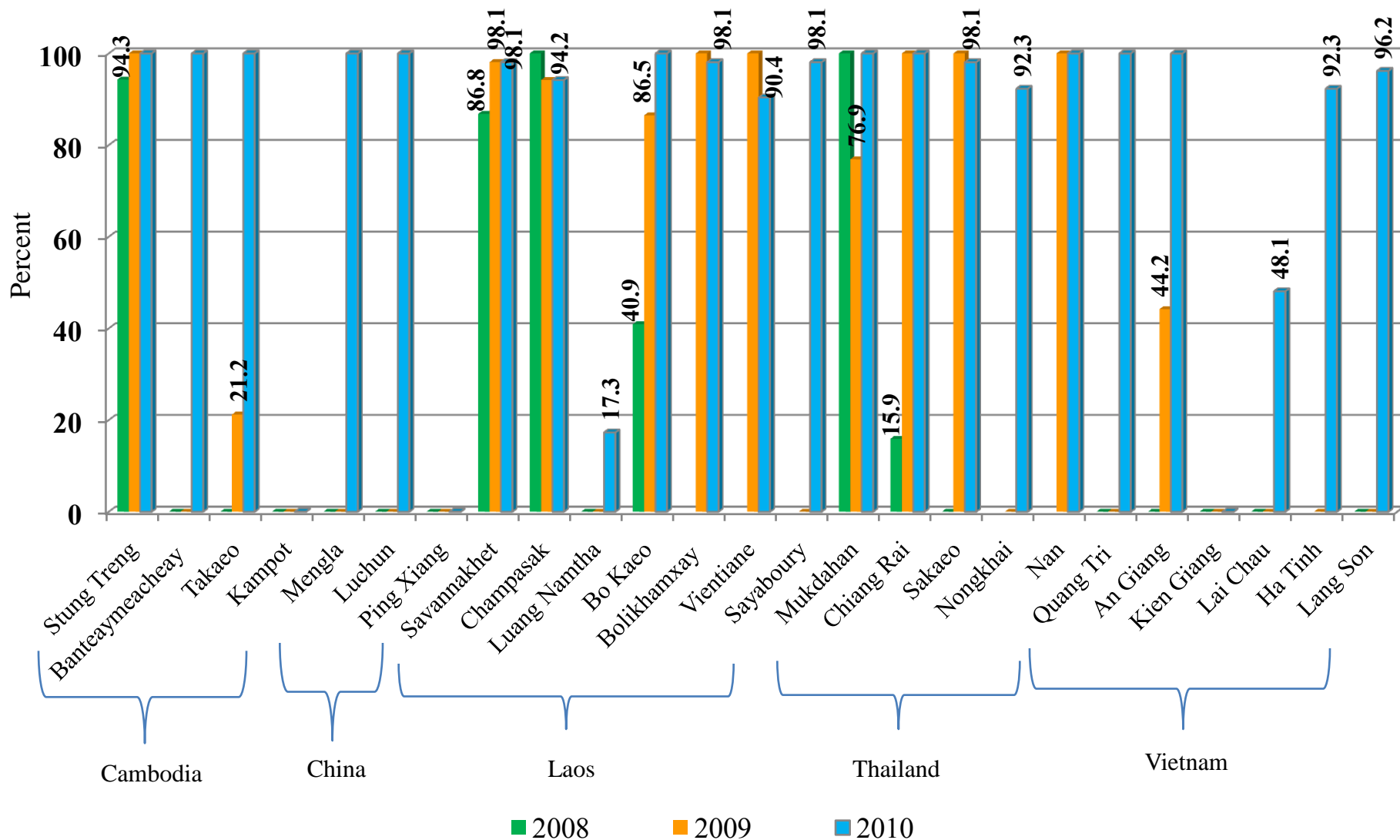
**Remark : ★ Waiting for report**

**: ★ Planning**

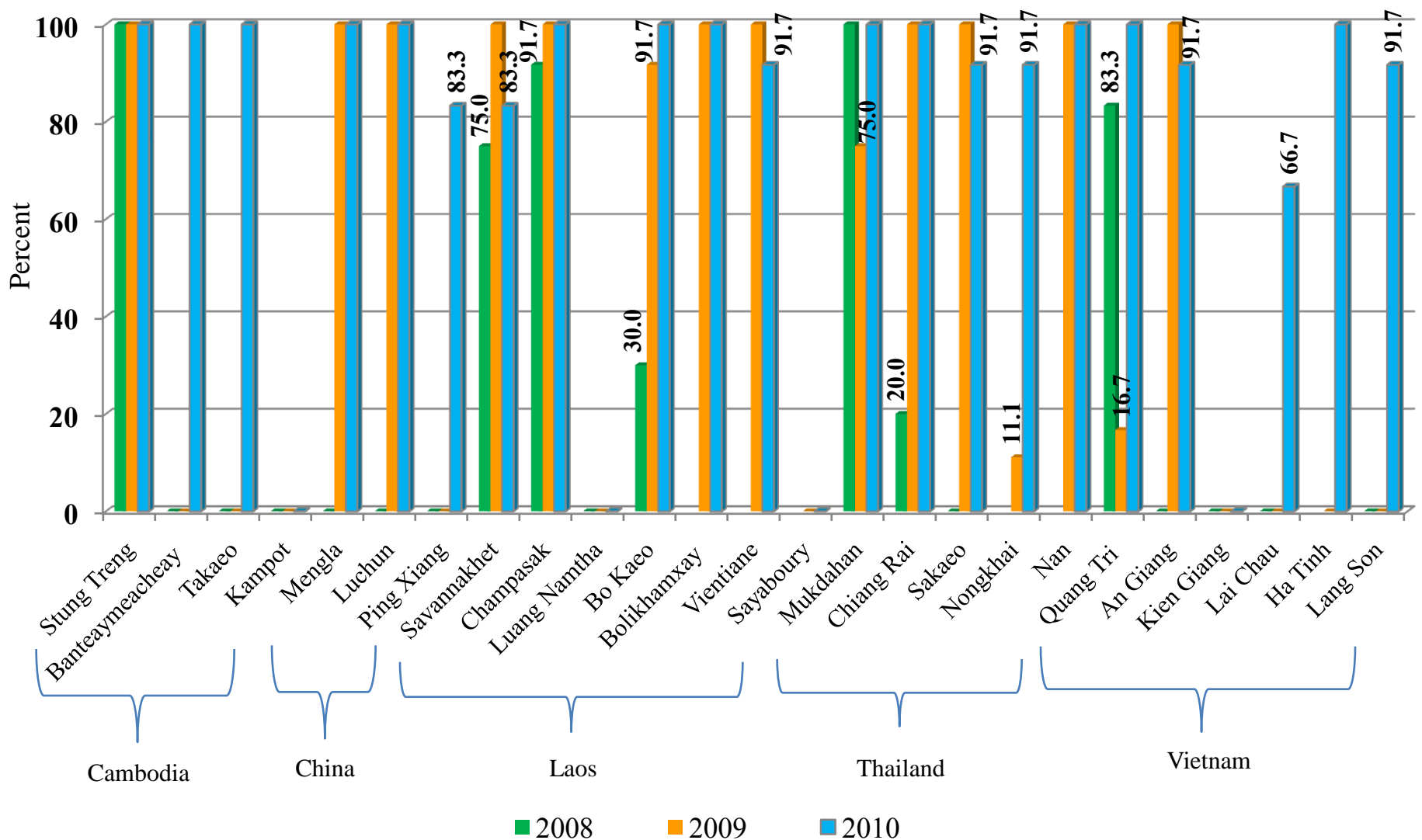


# **Frequency of MBDS XB Exchange Report 2008 – 2010**

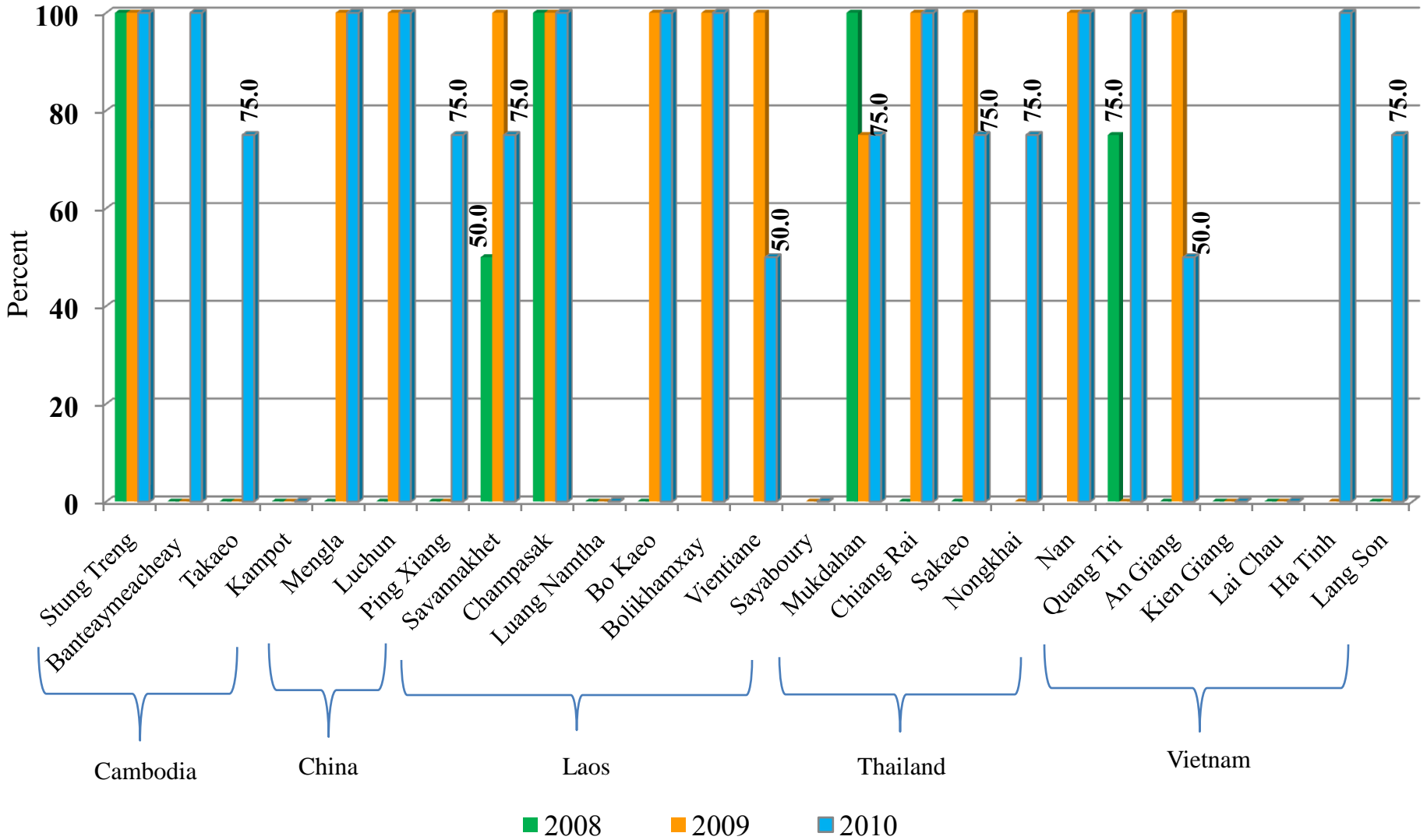
# Percentage of Exchange Report MBDS XB : Weekly Report (2008 –2010)



# Percentage of Exchange Report MBDS XB : Monthly Report (2008 –2010)



# Percentage of Exchange Report MBDS XB : Quarterly Report (2008 –2010)



# **Analysis on MBDS XB reported cases 2008 –2010**

# Within 24 hours Report

- Diseases of report:
  - H1N1,
  - AFP,
  - SARS,
  - Cholera / Severe Diarrhea,
  - Encephalitis,
  - Tetanus,
  - Meningitis,
  - Diphtheria and
  - PHEIC

# H1N1 reported cases from MBDS XB (2009 –2010)

<b>MBDS XB</b>	<b>2009 (case)</b>	<b>2010 (case)</b>	<b>Total (case)</b>
Nan	89	5	94
Nongkhai	-	61	61
Vientiane	56	0	56
Borikhamxay	44	0	44
Mukdahan	14	11	25
Sakao	0	20	20
An Giang	6	0	6
Chiang Rai	-	1	1
Bo Kaeo	0	0	0
Luchun	0	0	0
Mengla	0	0	0
Takao	0	0	0
Banteaymeanchey	-	0	0
Sayaboury	-	0	0

# AFP reported cases from MBDS XB (2008 –2010)

<b>MBDS XB</b>	<b>2008 (case)</b>	<b>2009 (case)</b>	<b>2010 (case)</b>	<b>Total (case)</b>
An Giang	-	13	-	13
Savannakhet	4	-	3	7
Borikhamxay	-	2	4	6
Champasak	0	1	2	3
Sakao	-	0	1	1
Nongkhai	-	-	1	1
Mukdahan	1	-	-	1
Nan	-	1	0	1
Bo Kaeo	-	-	1	1
Vientiane	-	0	0	0
Luchun	-	0	0	0
Mengla	-	0	0	0
Stung Treng	0	0	-	0
Takao	-	0	0	0
Banteaymeanchey	-	-	0	0
Sayaboury	-	-	0	0



# Cholera/Severe Diarrhea reported cases from MBDS XB (2008 –2010)

<b>MBDS XB</b>	<b>2008 (case)</b>	<b>2009 (case)</b>	<b>2010 (case)</b>	<b>Total (case)</b>
Takao	-	3,653	25,163	28,816
Nongkhai	-	-	10,779	10,779
Quang Tri	-	-	5,235	5,235
Banteaymeanchey	-	-	3,591	3,591
Borikhamxay	-	1,911	832	2,743
Stung Treng	92	129	491	712
Vientiane	-	215	295	510
Champasak	47	146	246	439
Sayaboury	-	-	202	202
An Giang	-	0	8	8
Mukdahan	0	-	8	8
Luang Namtha	-	-	4	4
Chiang Rai	-	-	2	2
Sakao	-	0	0	0
Nan	-	0	0	0
Luchun	-	0	0	0
Mengla	-	0	0	0

# Encephalitis reported cases from MBDS XB (2009 –2010)

<b>MBDS XB</b>	<b>2009 (case)</b>	<b>2010 (case)</b>	<b>Total (case)</b>
Lang Son	-	43	43
Mengla	3	14	17
Nan	5	0	5
Chiang Rai	-	4	4
Savannakhet	-	1	1
Luchun	1	0	1
Sayaboury	-	0	0

# Tetanus reported cases from MBDS XB (2009 –2010)

<b>MBDS XB</b>	<b>2009 (case)</b>	<b>2010 (case)</b>	<b>Total (case)</b>
Mengla	6	4	10
Lang Son	-	6	6
Bo Kaeo	2	-	2
Savannakhet	-	1	1
Luchun	0	0	0

# Meningitis reported cases from MBDS XB (2009 –2010)

<b>MBDS XB</b>	<b>2009 (case)</b>	<b>2010 (case)</b>	<b>Total (case)</b>
Banteaymeanchey	-	62	62
Savannakhet	-	26	26
Vientiane	-	24	24
Nan	-	22	22
Bo Kaeo	6	15	21
Chiang Rai	-	12	12
Sayaboury	-	8	8
Sakaeo	-	3	3
Luchun	0	0	0
Mengla	0	0	0

# Diphtheria reported cases from MBDS XB (2009 –2010)

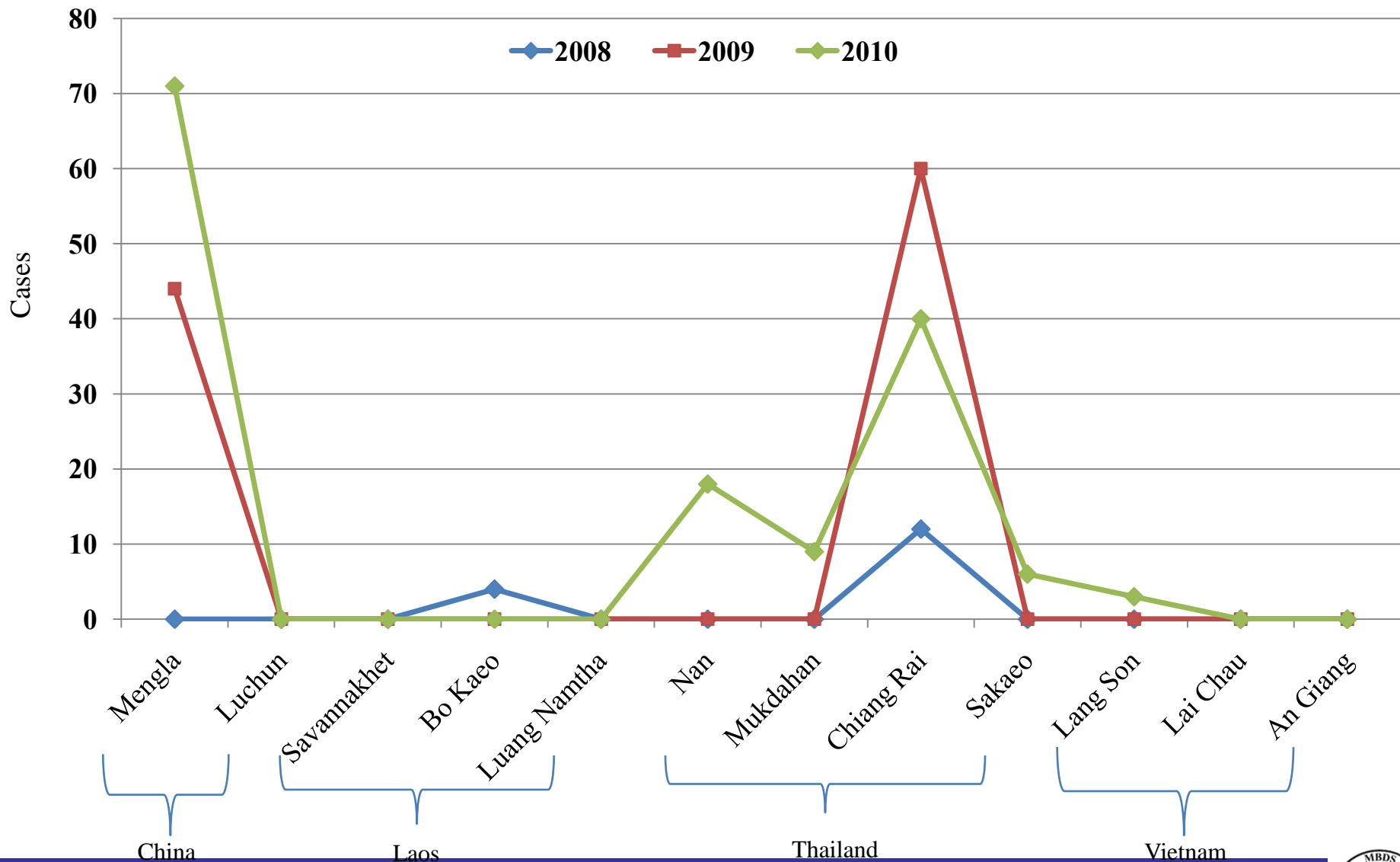
<b>MBDS XB</b>	<b>2009 (case)</b>	<b>2010 (case)</b>	<b>Total (case)</b>
Chiang Rai	-	1	1
Luchun	0	0	0
Mengla	0	0	0

No reported cases for SARS and PHEIC In  
MBDS XB report during 2008 –2010

# Weekly Report

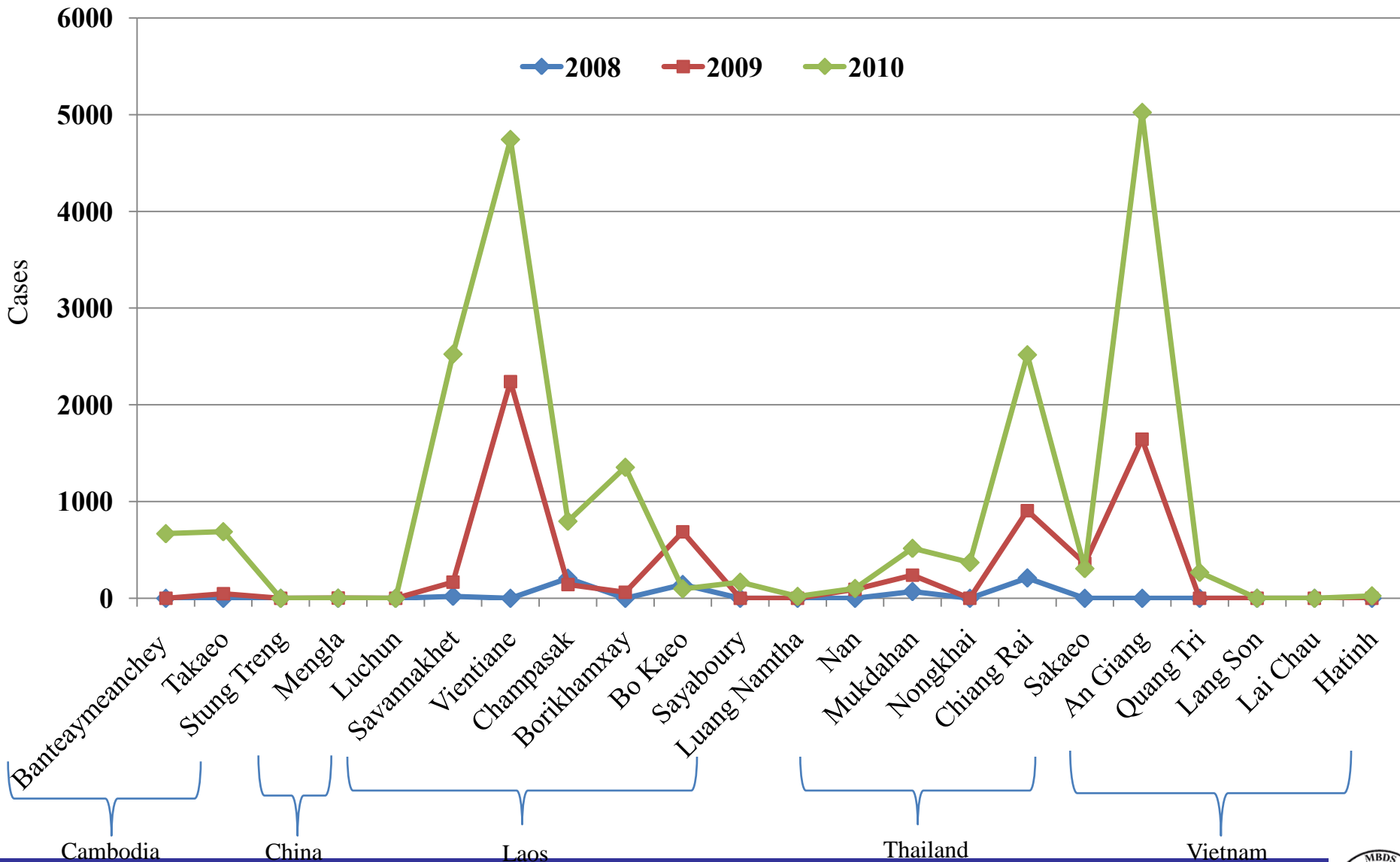
- Diseases of report:
  - Leptospirosis,
  - Chikungunya,
  - Dengue fever,
  - Typhoid fever and
  - Measles

# Leptospirosis reported cases from MBDS XB (2008 –2010)

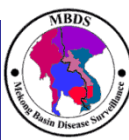
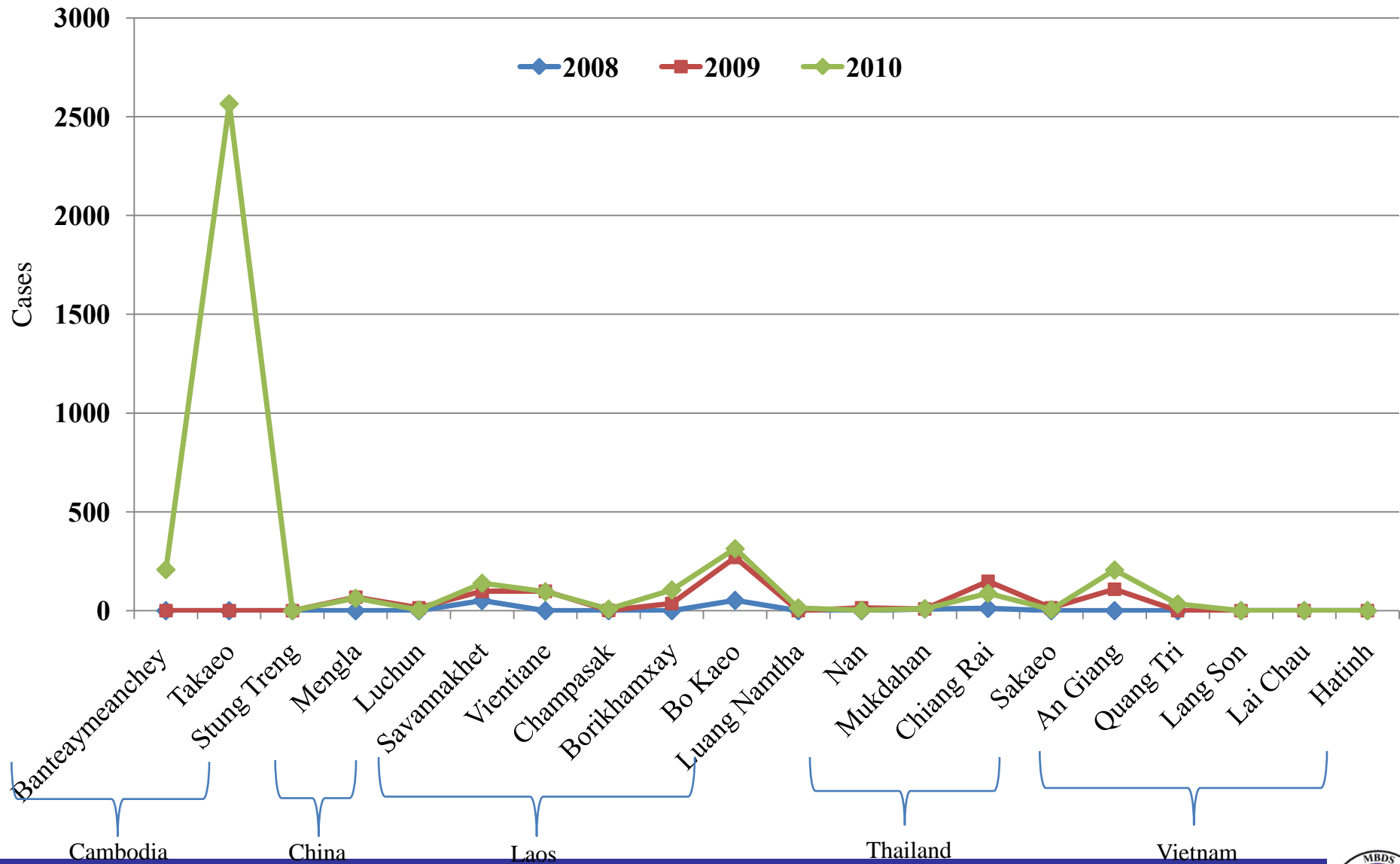




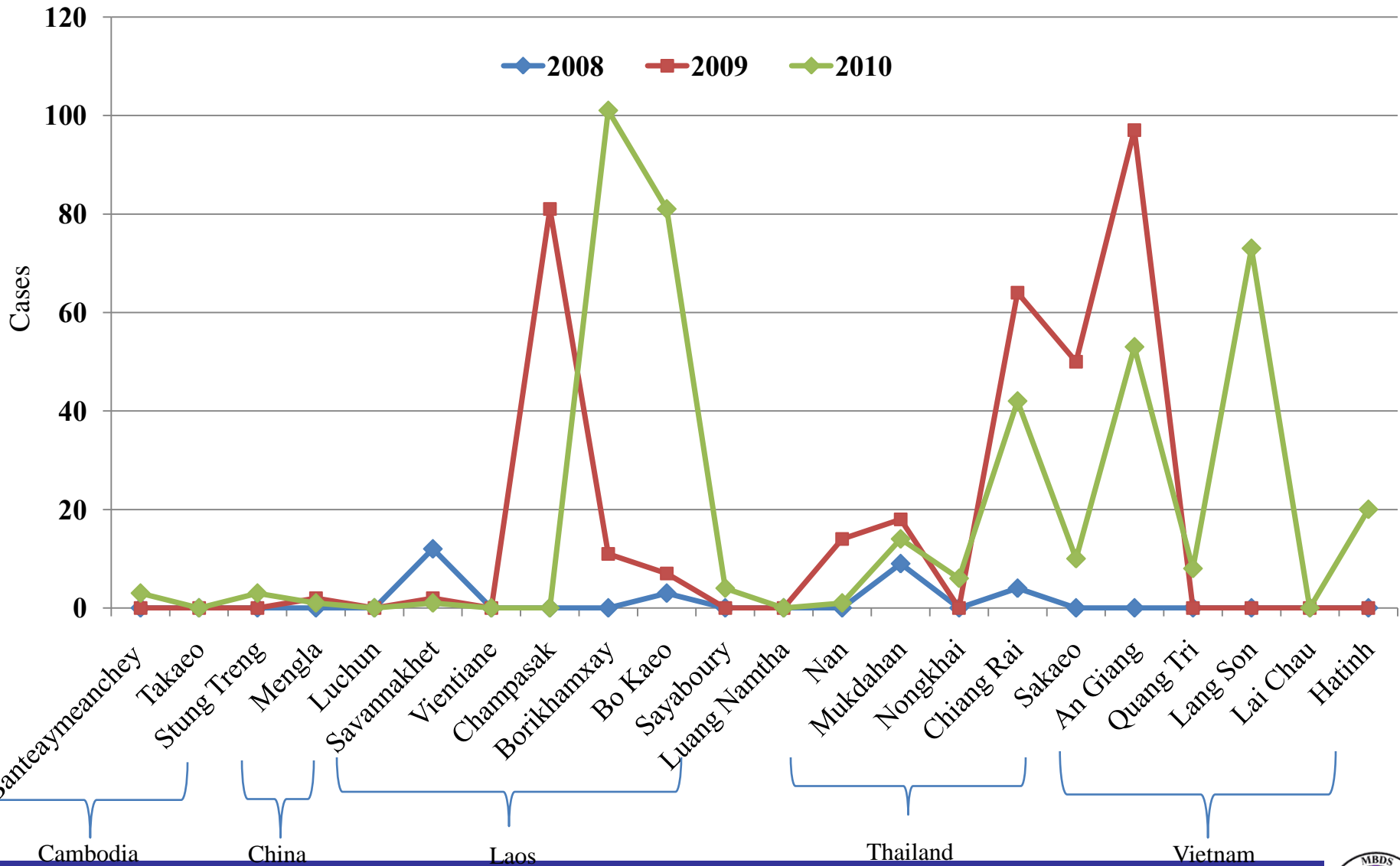
# Dengue fever reported cases from MBDS XB (2008 –2010)



# Typhoid fever reported cases from MBDS XB (2008 –2010)



# Measles reported cases from MBDS XB (2008 –2010)

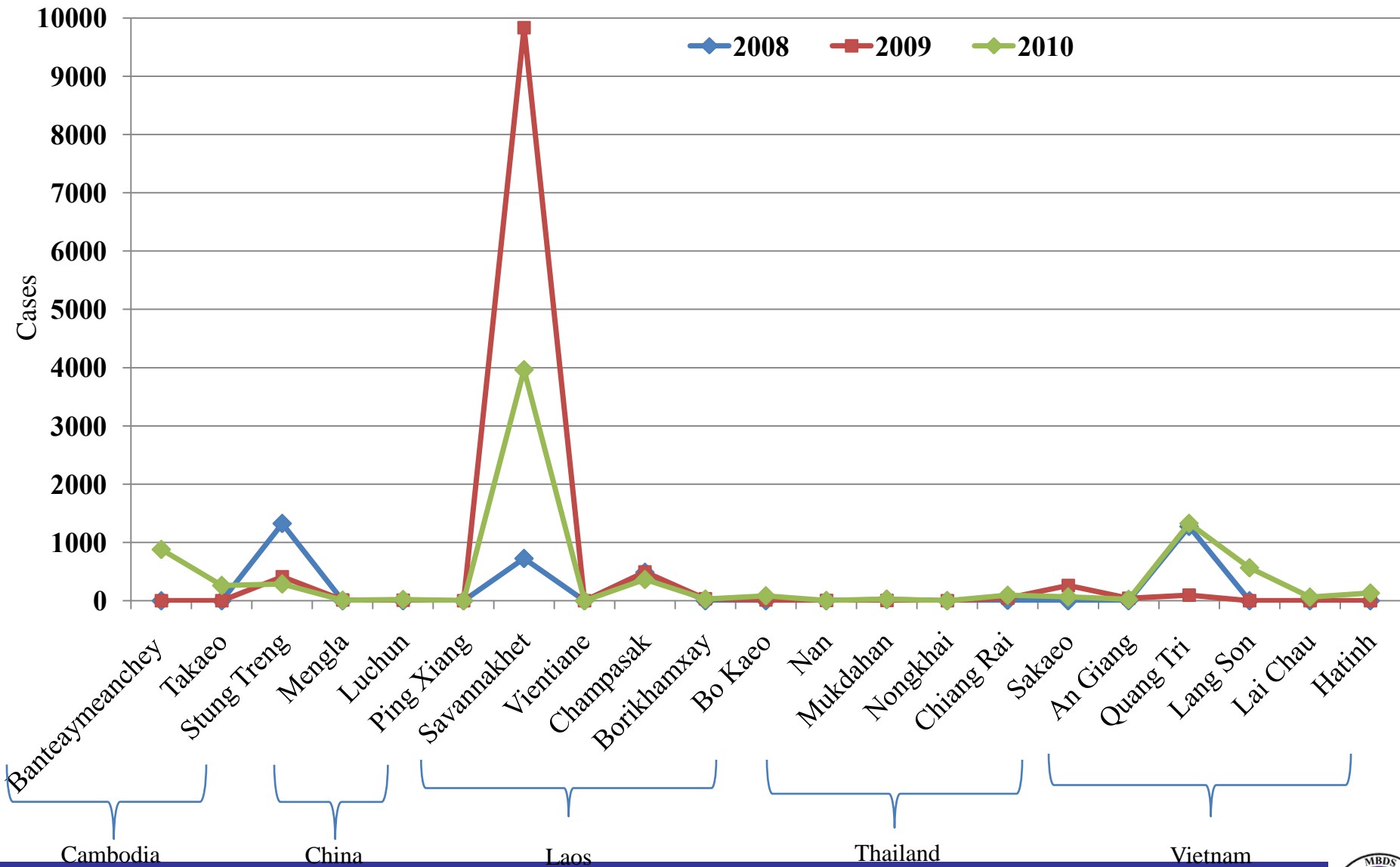


No reported cases for Chikungunya In MBDS XB report  
during 2008 –2010

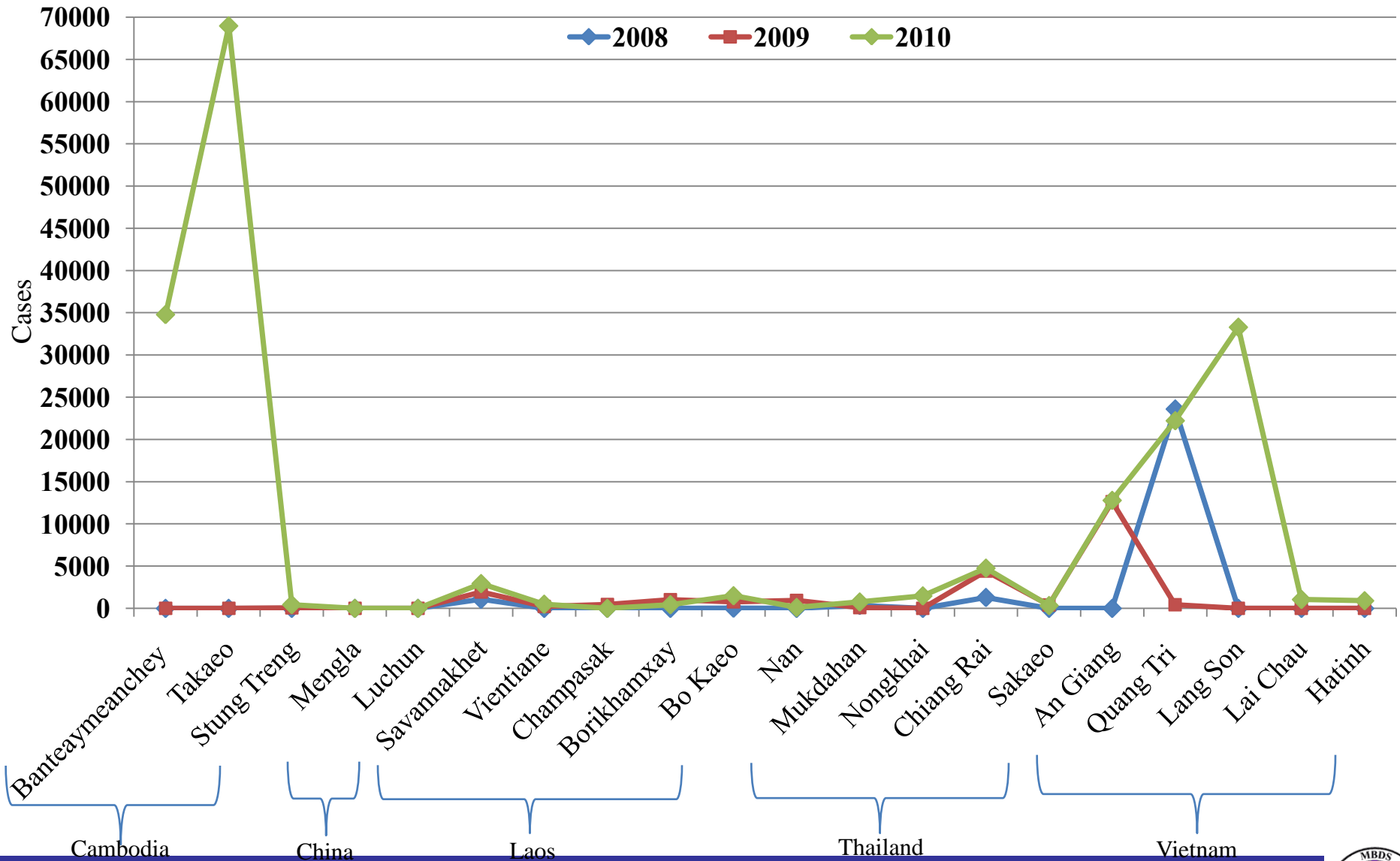
# Monthly Report

- Diseases of report:
  - Malaria and
  - Pneumonia

# Malaria reported cases from MBDS XB (2008 –2010)



# Pneumonia reported cases from MBDS XB (2008 – 2010)

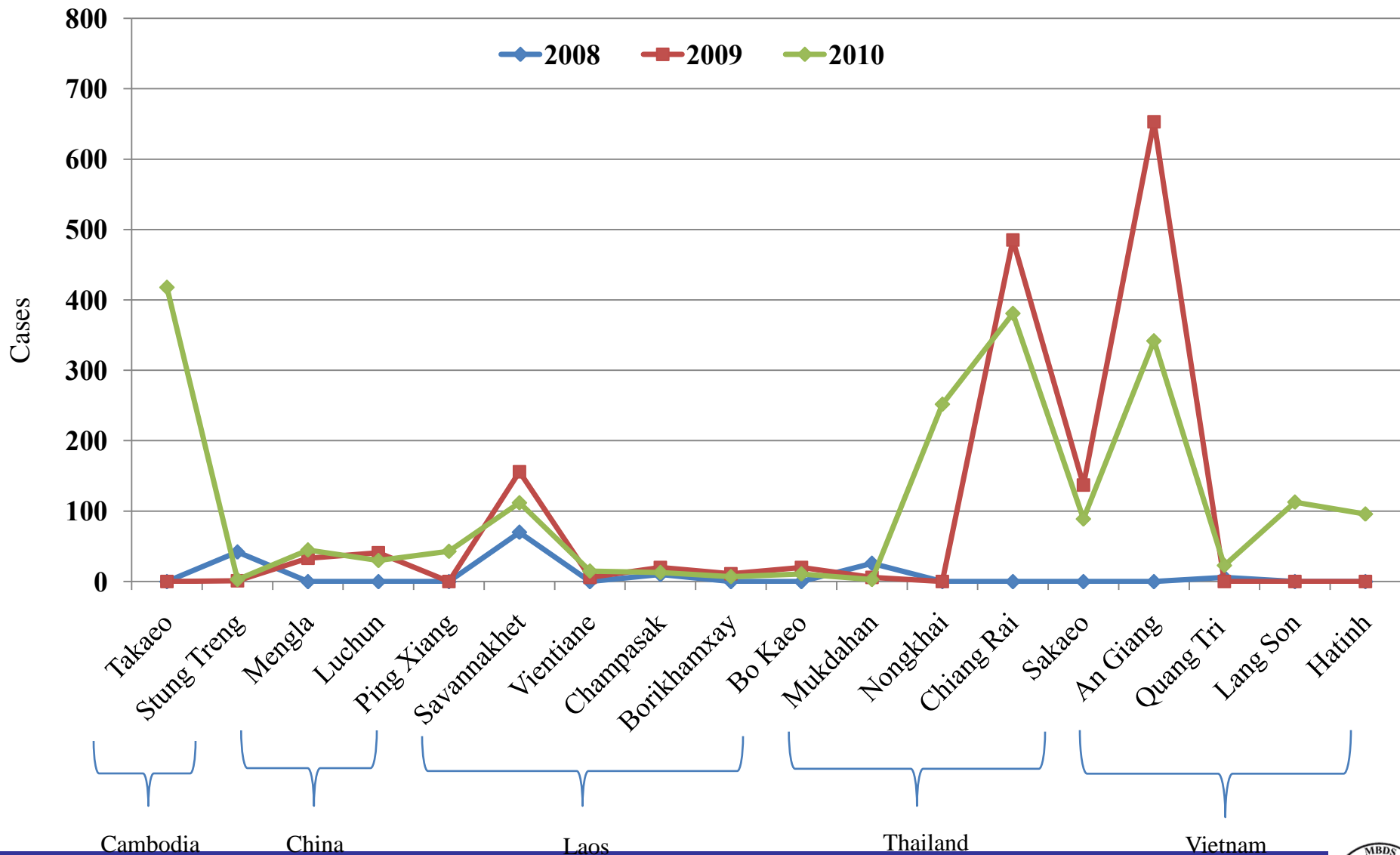


# Quarterly Report

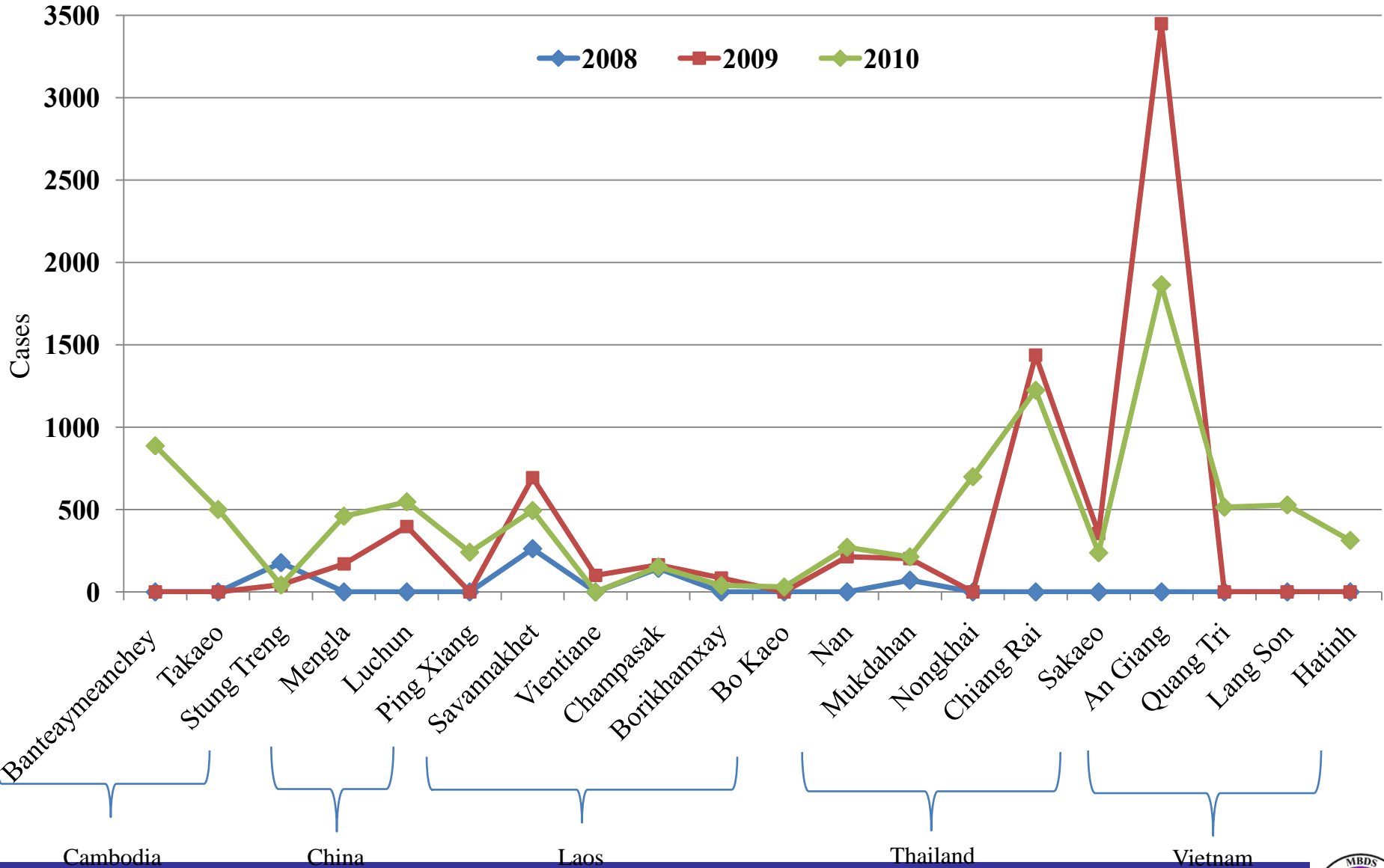
- Diseases of report :
  - HIV/AIDs and
  - TB



# HIV/AIDS reported cases from MBDS XB (2008 – 2010)



# TB reported cases from MBDS XB (2008 –2010)



# MBDS XB Web-based Reporting System

<http://veegilo.manas.com.ar/reports>

# Within 24 hours Report

## MBDS Crossborder Information Sharing

User  
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January 12, 2011

VIEW

REPORT

24hs. Report

Weekly Report

Monthly Report

Quarterly Report

Locations

▼

Submit Report

AH1N1/H5N5 0 - 0	AFP 3 - 2	SARS 0 - 0	Cholera/Severe Diarhea 0 - 0	Encephalitis 1 - 0	Tetanus 1 - 1	Meningitis 23 - 1	Diphtheria 0 - 0	PHEIC 0 - 0
Leptospirosis 0 - 0	Chikungunya 0 - 0	Dengue fever 2525 - 4	Typhoid fever 136 - 1	Measles 1 - 0	Malaria 3962 - 7	Pneumonia 2936 - 18	HIV/AIDS 112 - 28	Tuberculosis 494 - 0

Select date

AFP

References:  Infected  Dead

<< December 2010 >>

Mo	Tu	We	Th	Fr	Sa	Su
		1 <input type="checkbox"/> <input type="checkbox"/>	2 <input type="checkbox"/> <input type="checkbox"/>	3 <input type="checkbox"/> <input type="checkbox"/>	4 <input type="checkbox"/> <input type="checkbox"/>	5 <input type="checkbox"/> <input type="checkbox"/>
6 <input type="checkbox"/> <input type="checkbox"/>	7 <input type="checkbox"/> <input type="checkbox"/>	8 <input type="checkbox"/> <input type="checkbox"/>	9 <input type="checkbox"/> <input type="checkbox"/>	10 <input type="checkbox"/> <input type="checkbox"/>	11 <input type="checkbox"/> <input type="checkbox"/>	12 <input type="checkbox"/> <input type="checkbox"/>



# Within 24 hours Report

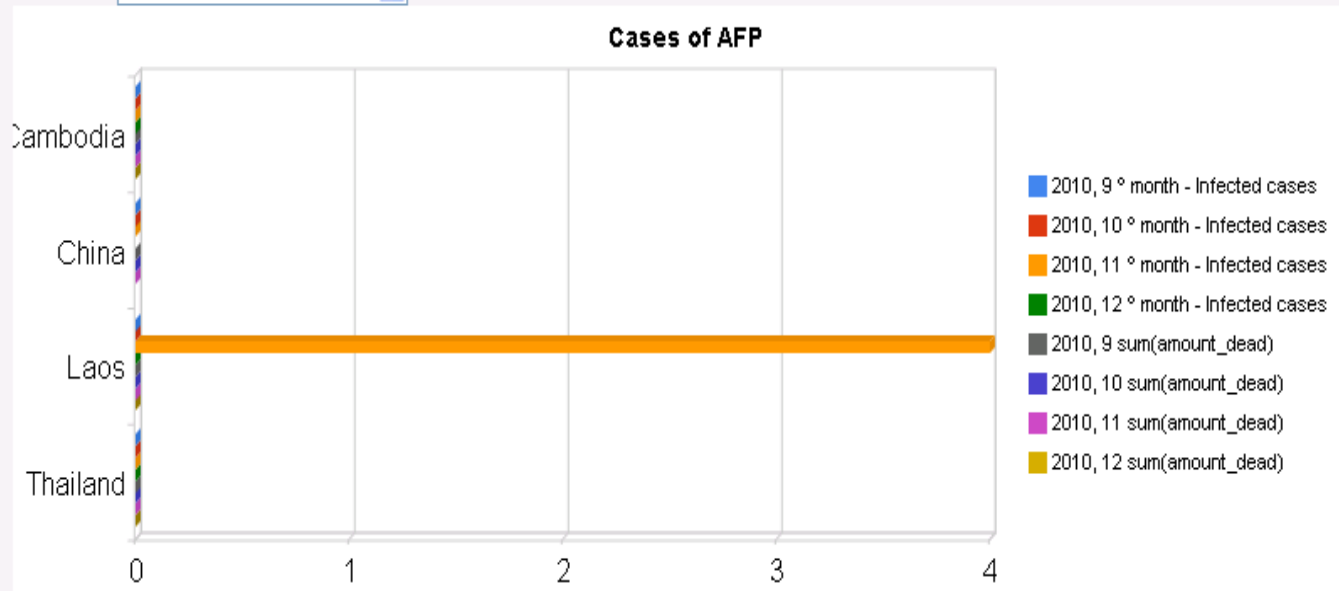
User  
Logout

**MBDS** Crossborder Information Sharing

January 12, 2011

## Cases by country for past four months

Disease:



Version: 1.1-pre1

InSTEDD

# Weekly Report

**MBDS** Crossborder Information Sharing

User  
Logout

January 12, 2011

VIEW

REPORT

24hs. Report

**Weekly Report**

Monthly Report

Quarterly Report

Locations

Mukdaharn

Submit Report

AH1N1/H5N5 11 - 0	AFP 0 - 0	SARS 0 - 0	Cholera/Severe Diarhea 8 - 0	Encephalitis 0 - 0	Tetanus 0 - 0	Meningitis 0 - 0	Diphtheria 0 - 0	PHEIC 0 - 0
Leptospirosis 9 - 0	Chikungunya 0 - 0	Dengue fever 517 - 0	Typhoid fever 10 - 0	Measles 14 - 0	Malaria 29 - 0	Pneumonia 755 - 0	HIV/AIDs 3 - 2	Tuberculosis 213 - 19

Select date

## Dengue fever

References:  Infected  Dead

<< December 2010 >>

Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19

<<	48th week	<input type="text" value="1"/>	<input type="text" value="0"/>
<<	49th week	<input type="text" value="3"/>	<input type="text" value="0"/>
<<	50th week	<input type="text" value="1"/>	<input type="text" value="0"/>

# Weekly Report

User  
Logout

**MBDS** Crossborder Information Sharing

January 12, 2011

## Cases by location

Disease:

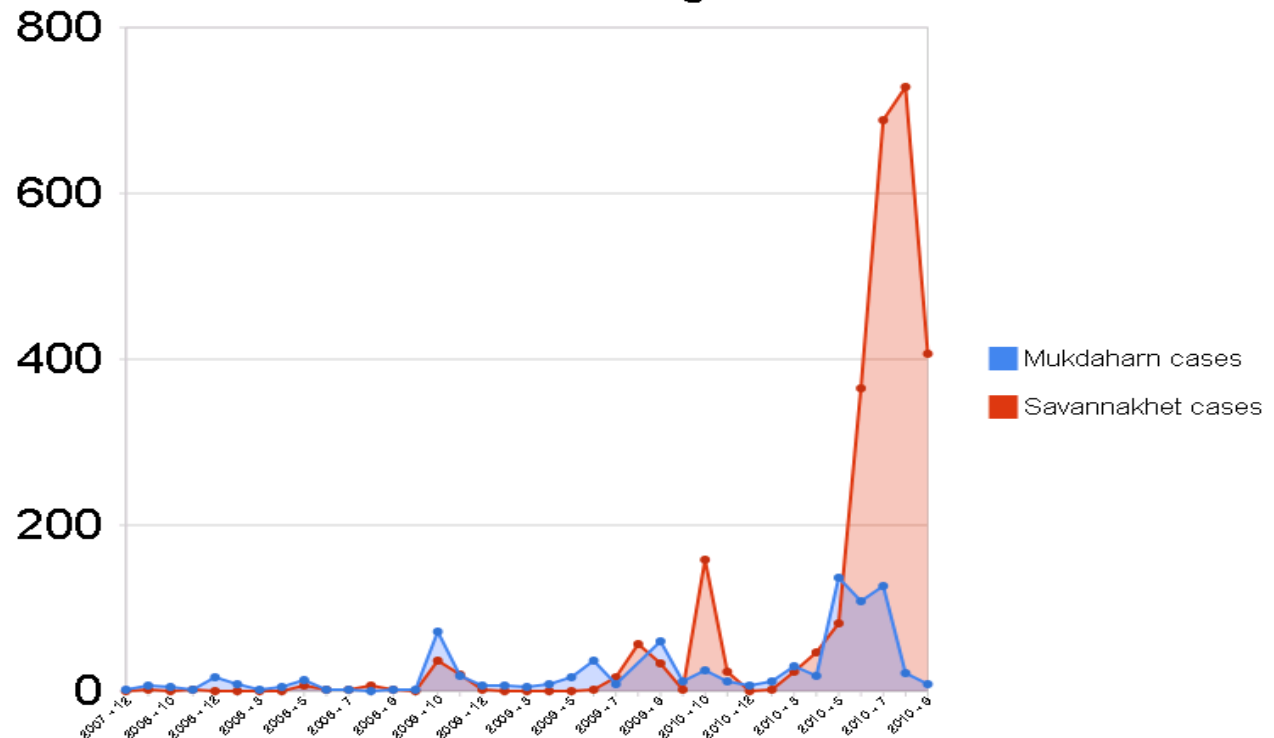
Dengue fever

Stacked:

Locations:

- An Giang
- Banteay Meachey
- Battambang and Pailin
- Bo Kaeo
- Borikhamxay
- Champasak
- Chanthaburi
- Chiang Rai
- Dong Xiang
- Guang Ninh
- Ha Tinh
- Kampong Cham
- Kampot
- Khammouane
- Kien Giang
- Koh Kong
- Kuang Binh
- Lai Chau
- Lang Son
- Luang Namtha
- Luchun
- Mae Sot
- Mengla
- Mukdaharn
- Myawaddy
- Nakorn Phanom
- Nan
- Nongkhai
- Ping Xiang

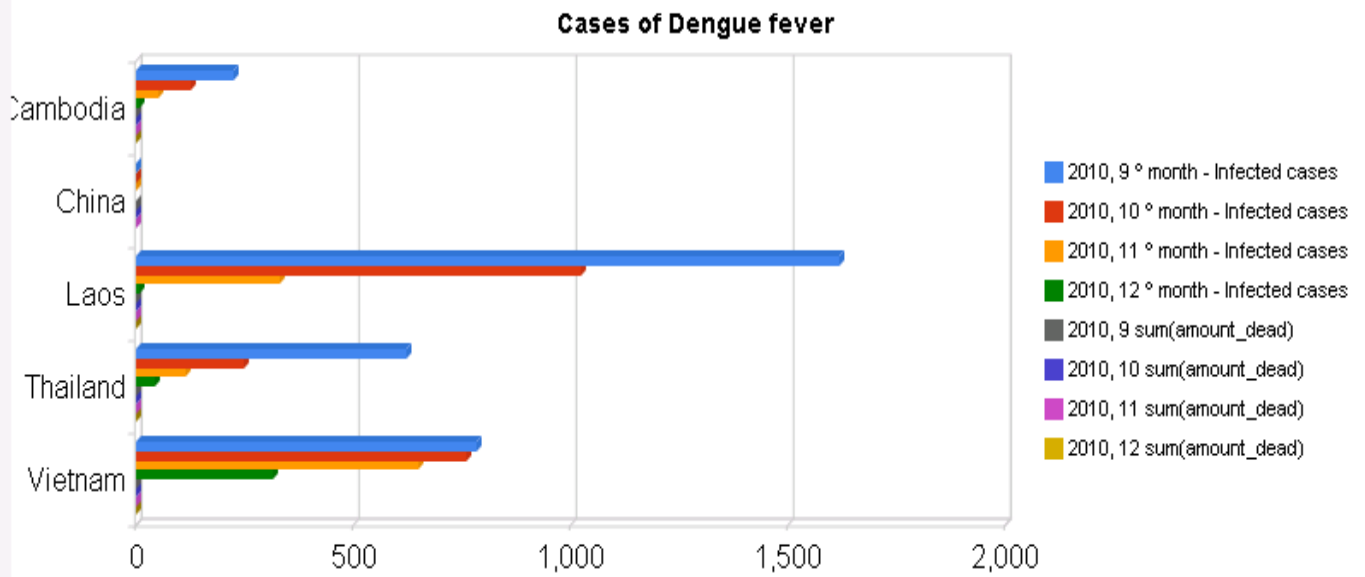
## Cases of Dengue fever



# Weekly Report

## Cases by country for past four months

Disease:





# Monthly Report

VIEW

REPORT

24hs. Report

Weekly Report

**Monthly Report**

Quarterly Report

Locations

Bo Kaeo

Submit Report

AH1N1/H5N5 0 - 0	AFP 1 - 0	SARS 0 - 0	Cholera/Severe Diarhea 0 - 0	Encephalitis 0 - 0	Tetanus 0 - 0	Meningitis 15 - 2	Diphtheria 0 - 0	PHEIC 0 - 0
Leptospirosis 0 - 0	Chikungunya 0 - 0	Dengue fever 98 - 0	Typhoid fever 306 - 0	Measles 81 - 0	<b>Malaria 85 - 0</b>	<b>Pneumonia 1498 - 0</b>	HIV/AIDs 8 - 2	Tuberculosis 0 - 0

Select date

## Malaria

References:  Infected  Dead

November 2010

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21

December 2010

Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19

# Monthly Report

## Cases by location

Disease:

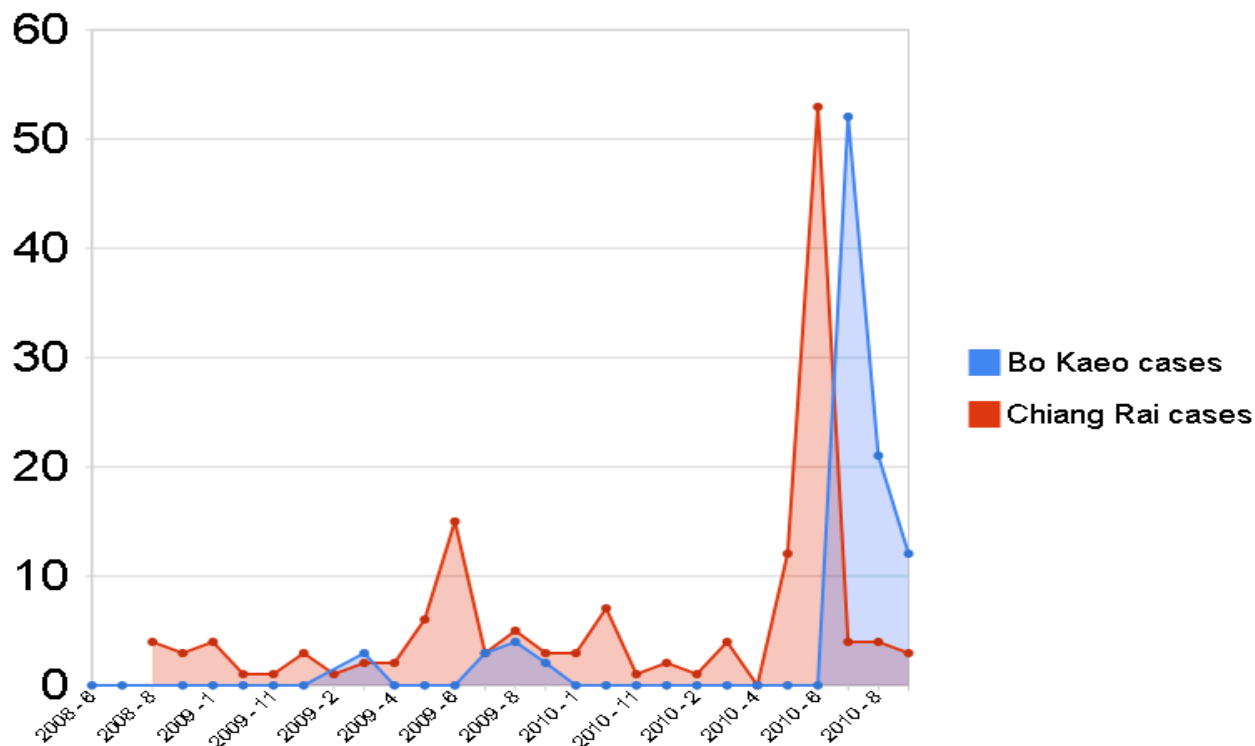
Malaria

Stacked:

Locations:

- An Giang
- Banteay Meachey
- Battambang and Pailin
- Bo Kaeo
- Borikhamxay
- Champasak
- Chanthaburi
- Chiang Rai
- Dong Xiang
- Guang Ninh
- Ha Tinh
- Kampong Cham
- Kampot
- Khammouane
- Kien Giang
- Koh Kong
- Kuang Binh
- Lai Chau
- Lang Son
- Luang Namtha
- Luchun
- Mae Sot
- Mengla
- Mukdaharn
- Myawaddy
- Nakorn Phanom
- Nan
- Nongkhai
- Pinn Xiann

## Cases of Malaria



# Monthly Report

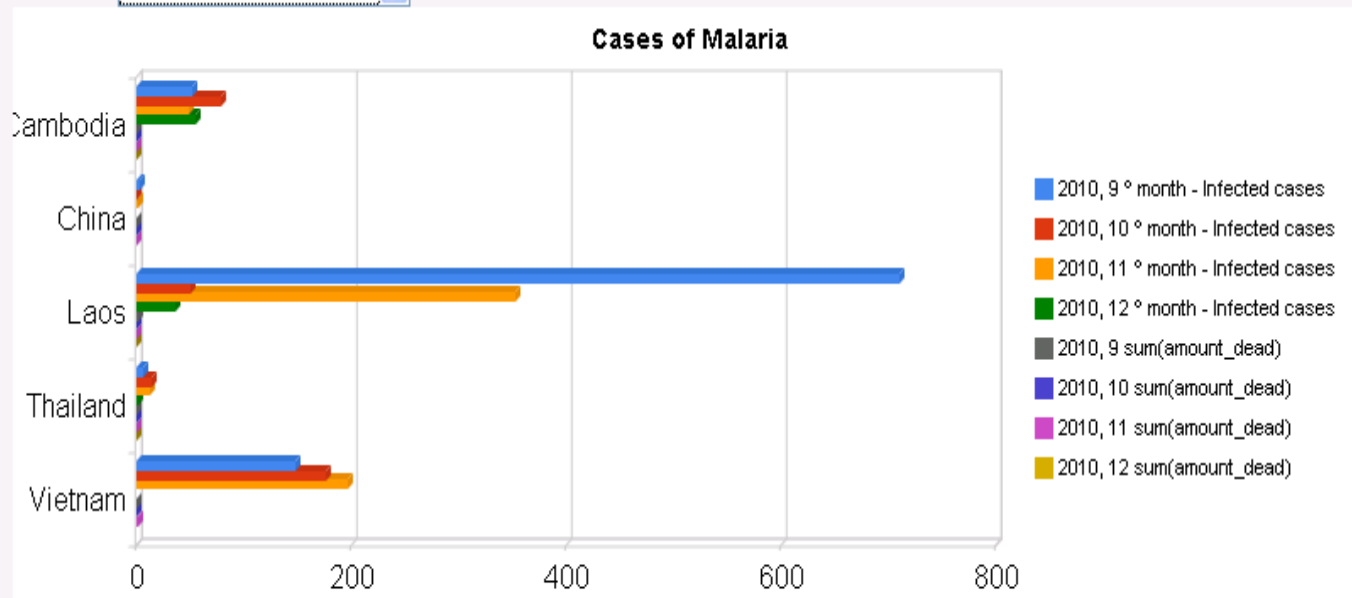
User  
Logout

**MBDS** Crossborder Information Sharing

January 12, 2011

## Cases by country for past four months

Disease:



Version: 1.1-pre1

InSTEDD

# Quarterly Report

VIEW

REPORT

24hs. Report

Weekly Report

Monthly Report

**Quarterly Report**

Locations

Champasak

Submit Report

AH1N1/H5N5 0 - 0	AFP 2 - 0	SARS 0 - 0	Cholera/Severe Diarhea 246 - 0	Encephalitis 0 - 0	Tetanus 0 - 0	Meningitis 0 - 0	Diphtheria 0 - 0	PHEIC 0 - 0
Leptospirosis 0 - 0	Chikungunya 0 - 0	Dengue fever 795 - 1	Typhoid fever 8 - 0	Measles 0 - 0	Malaria 365 - 0	Pneumonia 0 - 0	HIV/AIDS 13 - 0	Tuberculosis 153 - 0

Select date

## HIV/AIDS

References:  Infected  Dead

3rd Quarter 2010

July							August							September						
Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su
5	6	7	8	9	10	11	8	9	10	11	12	13	14	6	7	8	9	10	11	12
12	13	14	15	16	17	18	15	16	17	18	19	20	21	13	14	15	16	17	18	19
19	20	21	22	23	24	25	22	23	24	25	26	27	28	20	21	22	23	24	25	26
26	27	28	29	30	31		29	30	31					27	28	29	30			

4th Quarter 2010

October							November							December						
Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su
				1	2	3	1	2	3	4	5	6	7			1	2	3	4	5
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26
25	26	27	28	29	30	31	29	30						27	28	29	30	31		

# Quarterly Report

User  
Logout

**MBDS** Crossborder Information Sharing

January 12, 2011

## Cases by location

Disease:

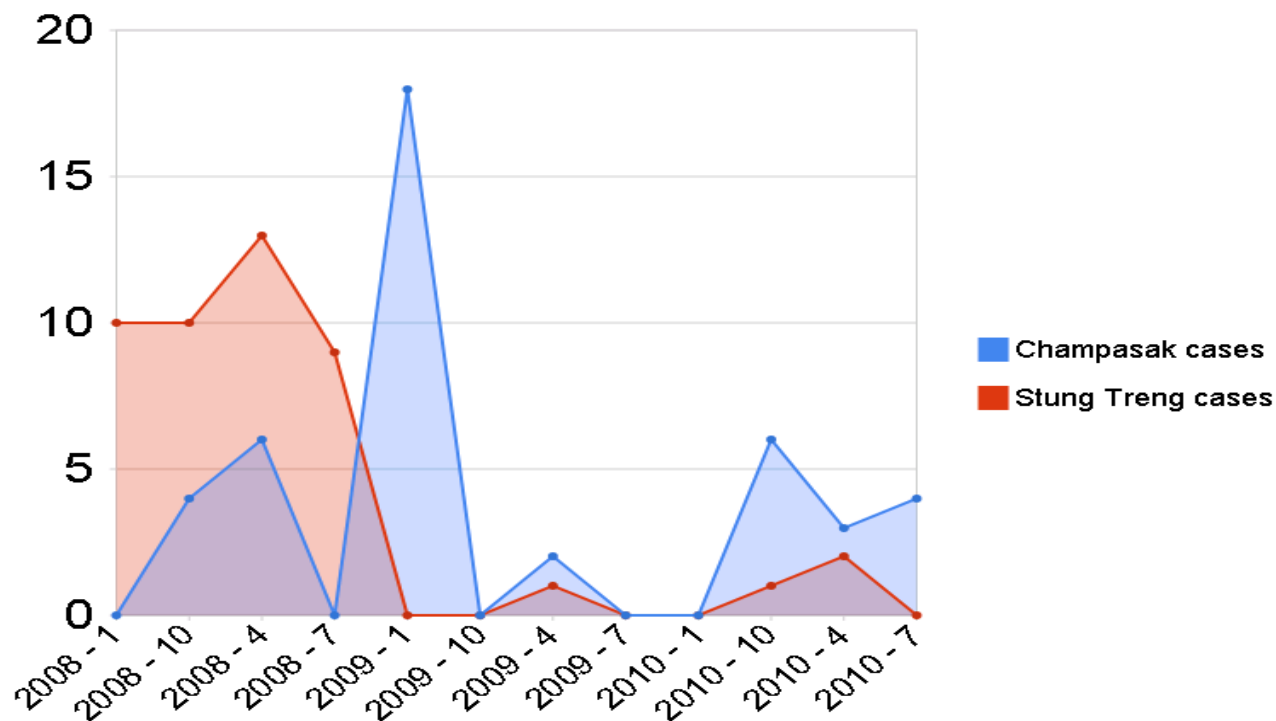
HIV/AIDS

Stacked:

Locations:

- An Giang
- Banteay Meacheay
- Battambang and Pailin
- Bo Kaeo
- Borikhamxay
- Champasak
- Chanthaburi
- Chiang Rai
- Dong Xiang
- Guang Ninh
- Ha Tinh
- Kampong Cham
- Kampot
- Khammouane
- Kien Giang
- Koh Kong
- Kuang Binh
- Lai Chau
- Lang Son
- Luang Namtha
- Luchun
- Mae Sot
- Mengla
- Mukdaharn
- Myawaddy
- Nakorn Phanom
- Nan
- Nongkhai
- Ping Xiang

## Cases of HIV/AIDS



# Quarterly Report

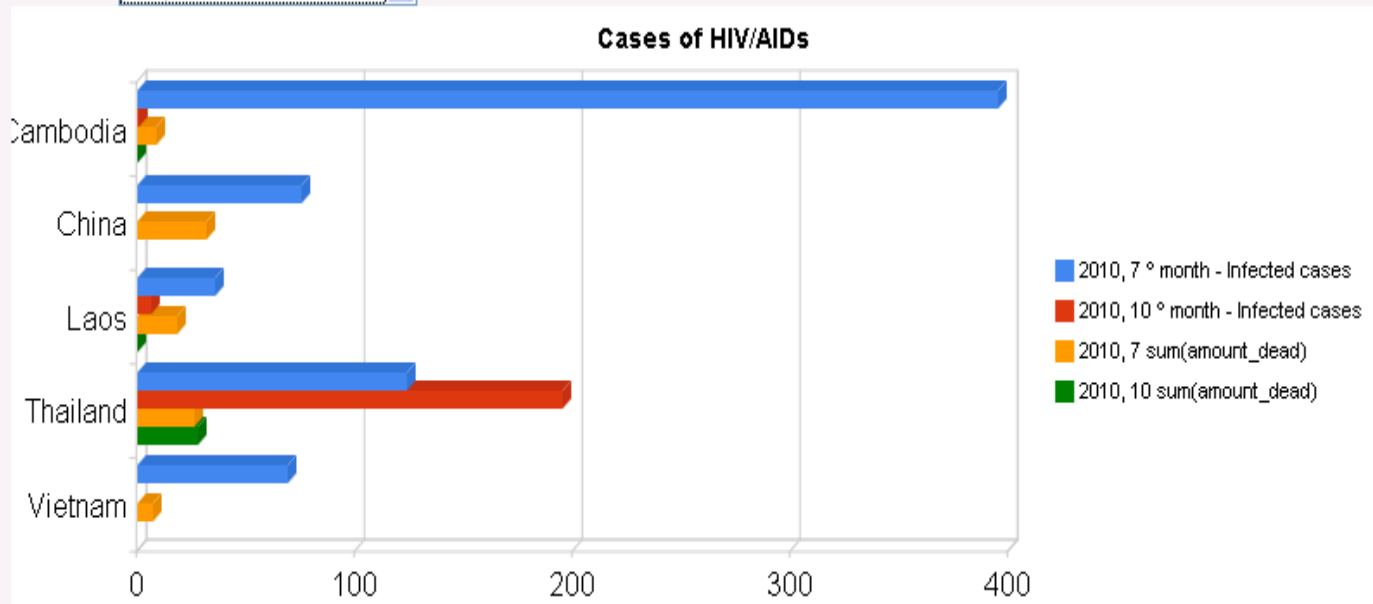
**MBDS** Crossborder Information Sharing

User  
Logout


January 12, 2011

## Cases by country for past four months

Disease:



Version: 1.1-pre1

 InSTEDD

# MBDS Newsletter, Brochure and Poster

**MBDS**  
Mekong Basin Disease Surveillance  
Newsletter



January to April 2010



**MBDS Country Coordinators' Meeting**  
4 - 5 March, 2010, Beijing PRC

Representatives of six MBDS member countries participated in the Country Coordinators Meeting convened at Beijing, PRC on 4<sup>th</sup> & 5<sup>th</sup> March 2010. The participants included Executive Board from Central China and Thailand, Country Coordinators, MBDS Coordinating Office staff members and observers from MBDS development partners (Rockefeller Foundation, RAND, SEAMEO-TROPMED)

Each MBDS member countries presented information on its progress in implementing the MBDS seven strategies, achievement, lesson learnt propose regional plan by individual country using MBDS Monitoring and Evaluation System format.

MBDS EBs and CCs agreed in the Beijing meeting to hold the MBDS Regional Forum at Luang Prabang, Lao PDR from 11-12 August 2010.

MBDS Newsletter [www.mbdsoffice.com](http://www.mbdsoffice.com)

**MBDS Goals**

- Strengthen sub-regional disease surveillance and information exchange
- Strengthen human resource development in field epidemiology
- Establish sustainable national capacity in disease surveillance, outbreak investigation and response
- Provide information for health and social policy to reduce burden arising from priority diseases
- Partnerships with other existing cooperation

**MBDS COORDINATING MECHANISM**



**Achievements of MBDS**

- Strengthened MBDS network (MOU)
- Created awareness among the senior health officials for strengthening national surveillance systems
- Built trust, developed cooperation, and perceived equality of sharing benefits and group values among member countries
- Trained field epidemiologists and health officials of the member countries for strengthening national surveillance capacities
- Promoted effective and efficient health cooperation among member countries for strengthening national surveillance capacities

**MOU Signing Ceremony at China (2001)**



**MOU - 1 (2001)**



**MOU - 2 (2007)**

**MEKONG BASIN DISEASE SURVEILLANCE MBDS**

- Initiated by the Ministers of Health of Cambodia, China, Lao PDR, Myanmar, Thailand and Vietnam
- Memorandum of Understanding signed by the six Health Ministers in 2001 in Kunming, China
- Coordinating office located: Ministry of Public Health, Thailand
- Phase I - October 2001 - September 2003
- Phase II - October 2003 - November 2007
- Phase III - December 2007 - 2011

**MBDS Background**



**MBDS 7 Core Strategies**



**MBDS Executive Board**

CAMBODIA	Prof. Sann Chan Soeung Deputy Director General, MOH
CHINA	Dr. Wang Liyang Director, MOH
LAO PDR	Dr. Boulay Phommavixay Deputy Director General, MOH
MYANMAR	Prof. Saw Lwin Deputy Director General, MOH
THAILAND	Dr. Kumanan Ungchusak Senior expert, MOH
VIETNAM	Dr. Nguyen Hoang Long Vice Director, MOH

**MBDS COORDINATING OFFICE**

Dr. Mook Ko Do  
MBDS Coordinator  
c/o Ministry of Public Health  
Department of Disease Control  
Rajprachasarnsil Bldg  
No. 8, 4th Floor  
Thawarod Road, Nonthaburi 11000 THAILAND  
Tel : +66 (0) 2592 3343 Fax : +66 (0) 2590 3324  
Email : [moos@mbdsoffice.net](mailto:moos@mbdsoffice.net)  
<http://www.mbdsoffice.com>

**MBDS CC Meeting**  
Beijing, China, 4 - 5 Mar, 2010

**Meeting for Developing Trans Border Disease Surveillance System**  
Nha, Thailand, 12 Mar, 2009

**Annual MBDS EB & CC Meeting**

**MBDS Coordinating Office**  
c/o Ministry of Public Health  
Department of Disease Control  
Rajprachasarnsil Bldg (No. 01, 4th Floor,  
Thawarod Road, Nonthaburi 11000 Thailand  
Tel : +66 (0) 2592 3343 Fax : +66 (0) 2590 3325  
Email : [moos@mbdsoffice.net](mailto:moos@mbdsoffice.net)

**MBDS 7 CORE STRATEGIES**

- Maintain & expand cross-border cooperation
- Improve human-animal sector interface and strengthen community-based surveillance
- Strengthen epidemiology HR capacity
- Strengthen ICT capacity
- Strengthen laboratory capacity
- Strengthen risk communications
- Conduct and apply policy research

"A social movement" and "the friendship, trust and partnership built among the people involved are social capitals gained from MBDS"

<http://www.mbdsoffice.com>

**MBDS**  
MEKONG BASIN  
DISEASE SURVEILLANCE



**MOU 2001**



**MOU 2007**



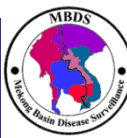
**MBDS 7 CORE STRATEGIES**

- Maintain and expand KB cooperation
- Improve human-animal interface and strengthen community based surveillance
- Strengthen epidemiology capacity
- Strengthen ICT capacity
- Strengthen laboratory capacity
- Strengthen risk communication
- Conduct and apply policy research




**MBDS Coordinating Office**  
c/o Ministry of Public Health  
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Thawarod Road, Nonthaburi 11000 Thailand  
Tel : +66 (0) 2592 3343 Fax : +66 (0) 2590 3325  
Email : [moos@mbdsoffice.net](mailto:moos@mbdsoffice.net)

<http://www.mbdsoffice.com>



# Activity Photos



# MBDS Annual Coordinating & EB Meeting 8-10 June, 2005



MEKONG BASIN DISEASE SURVEILLANCE (MBDS)



# MBDS EB & CC Meeting 20-21 February, 2006



# MBDS EB & CC Meeting

## 1-3 June, 2006



# MBDS 5 Countries XB Conference

## 23-24 August, 2006



# MBDS EB & CC Meeting 29-31 January, 2007



MEKONG BASIN DISEASE SURVEILLANCE (MBDS)



# MBDS Annual Coordinating & EB Meeting 6-8 August, 2007



**MEKONG BASIN DISEASE SURVEILLANCE (MBDS)**



# MBDS CC Meeting 8-9 October, 2007



# MBDS Coordinating Committee Meeting 2-4 February, 2008





# MBDS EB & CC Meeting

## Guilin, 26-27 Feb, 2009



# MBDS ICT Forum

## 2-3 April, 2009, Mukdaharn, Thailand



# MBDS Regional Forum

## Kunming, 10-12 Aug, 2009

湄公河流域疾病监测项目区域论坛

Mekong Basin Disease Surveillance Regional Forum

2009年8月10-12日 中国 昆明

10-12 August, 2009 Kunming, China



MEKONG BASIN DISEASE SURVEILLANCE (MBDS)



# MBDS EB & CC Meeting

## Kunming, 13 Aug, 2009



湄公河流域疾病监测项目执行委员暨国家协调员会议  
Mekong Basin Disease Surveillance Executive Board and Country Coordinator Meeting

2009年8月13日 中国 昆明

13 August, 2009 Kunming, China



MEKONG BASIN DISEASE SURVEILLANCE (MBDS)



# MBDS CC Meeting

## Beijing, 4-5 March, 2010



MEKONG BASIN DISEASE SURVEILLANCE (MBDS)



# **MBDS Regional Forum**

## **Luang Prabang, 18-19 Aug, 2010**

Mekong Basin Disease Surveillance (MBDS)  
Regional Forum Meeting,  
18-19 August 2010, Villa Santi Resort & Spa  
Loung Prabang Province, Lao PDR.



COOPERATION



# MBDS EB Meeting

## Luang Prabang, 20 Aug, 2010



# EAC Network Meeting





# MBDS Cross Border Meeting

Between Kampong Cham, Svay Rieng, Takeo, Kampot (Cambodia)  
And Tay Ninh, Kien Giang, An Giang (Vietnam)

30 July 2010 (PHD, Kampong Cham Province)



# MBDS Cross Border Meeting Between Vietnam, Laos, Cambodia and Thailand 4 August 2010 (Thien Cam, Hatinh)



MEKONG BASIN DISEASE SURVEILLANCE (MBDS)



**MBDS Cross Border Meeting**  
**Between Guangxi, Yunnan(China)**  
**And Lang Son, Quang Ninh, Lai Chau (Vietnam)**  
**12 August 2010 (Nanning, Guangxi)**



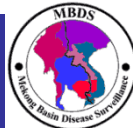
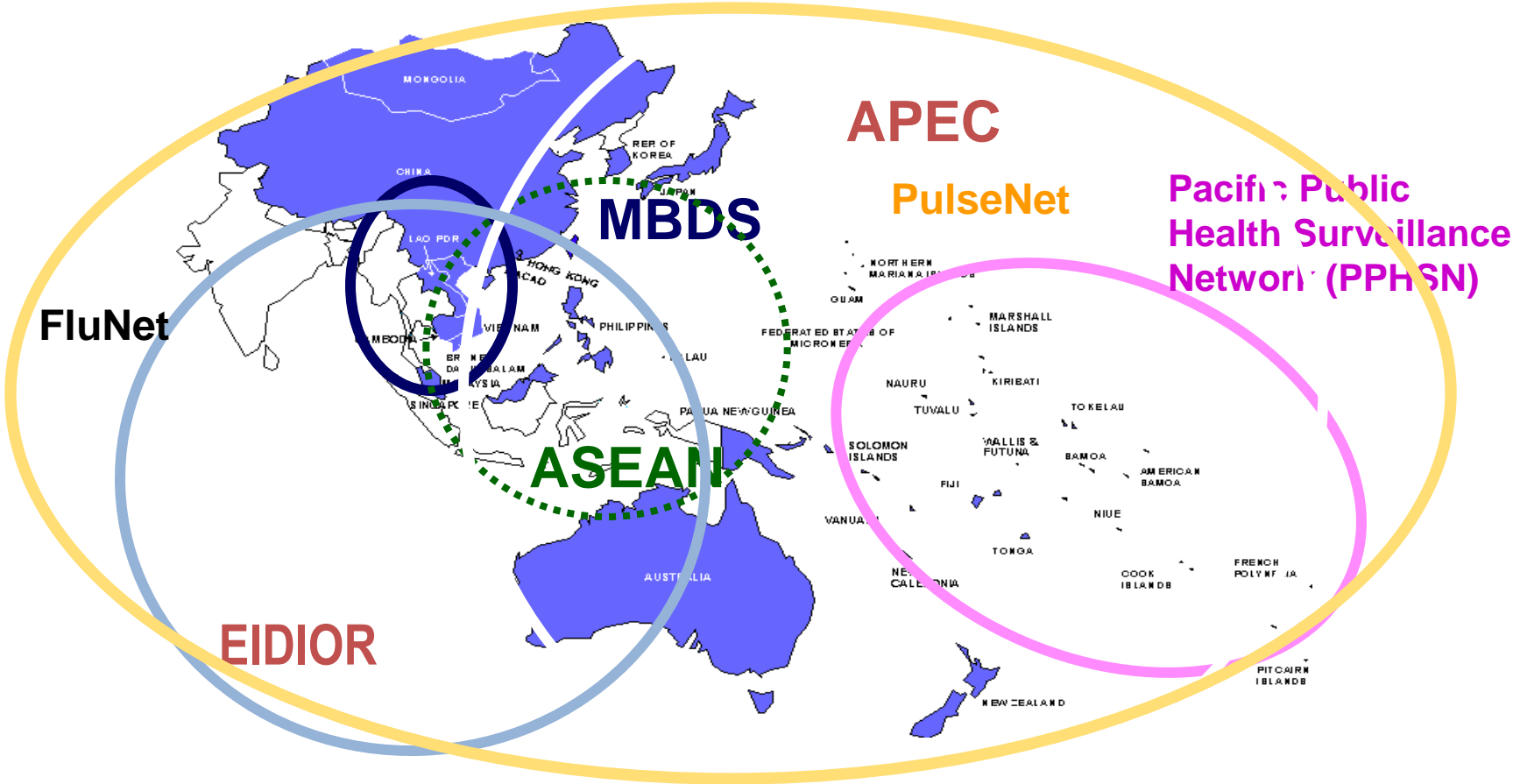


# MEKONG BASIN DISEASE SURVEILLANCE (MBDS)





# Regional Network



# Acknowledgement

- Ministry of Health (MBDS member six countries)
- Rockefeller Foundation
- RAND Corporation
- InSTEDD
- MBDS External Evaluation Team
- WHO
- NTI

# Thank You Very Much

<http://www.mbdsoffice.com>