

A black and white photograph of a person in a field of rubble, possibly a disaster site. The person is in the foreground, looking down at something on the ground. The background shows more debris and a building that appears to be damaged. The text is overlaid on the image.

Lessons Learned in Leptospirosis Surveillance and Response After a Natural Disaster

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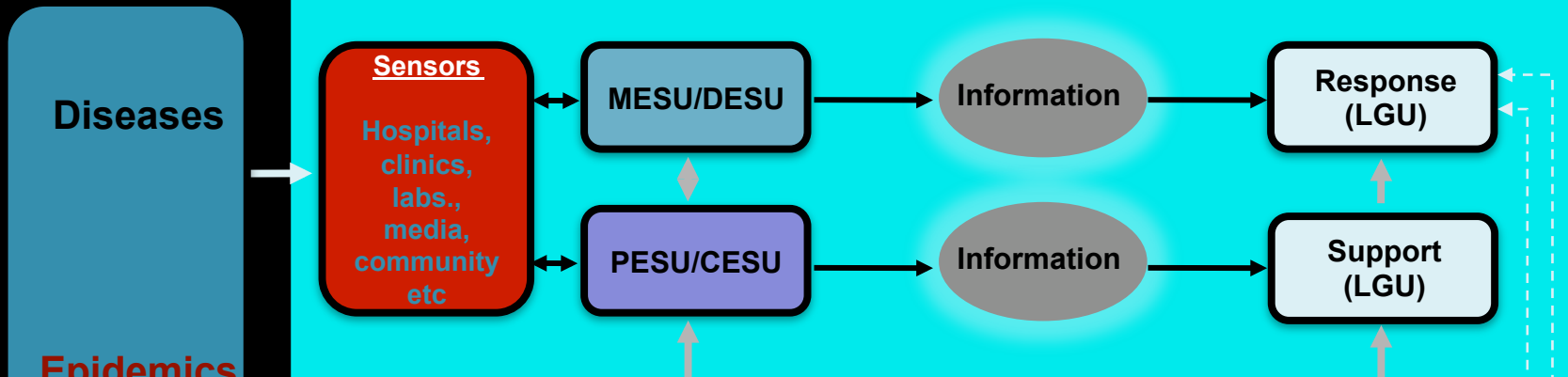
Outline

- Background: Philippine Integrated Disease Surveillance and Response (PIDSR)
- Aftermath of Flooding and Destruction after Twin Typhoons
- Post-disaster Disease Surveillance
- National outbreak response
- GOARN mission
- Lessons learned
- Way Forward

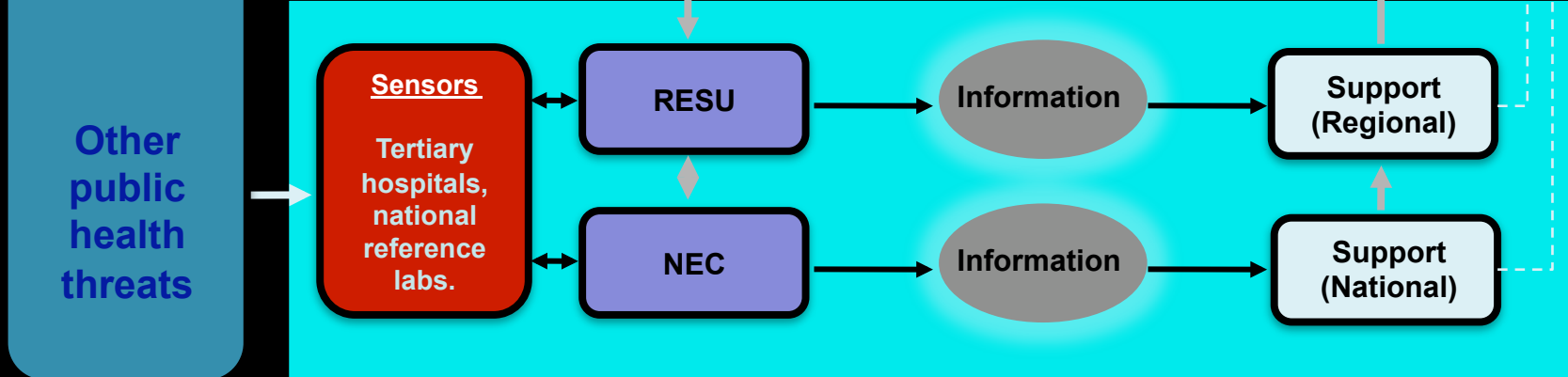
PIDSR Framework

Healthier Communities

Local Disease Surveillance and Response Module



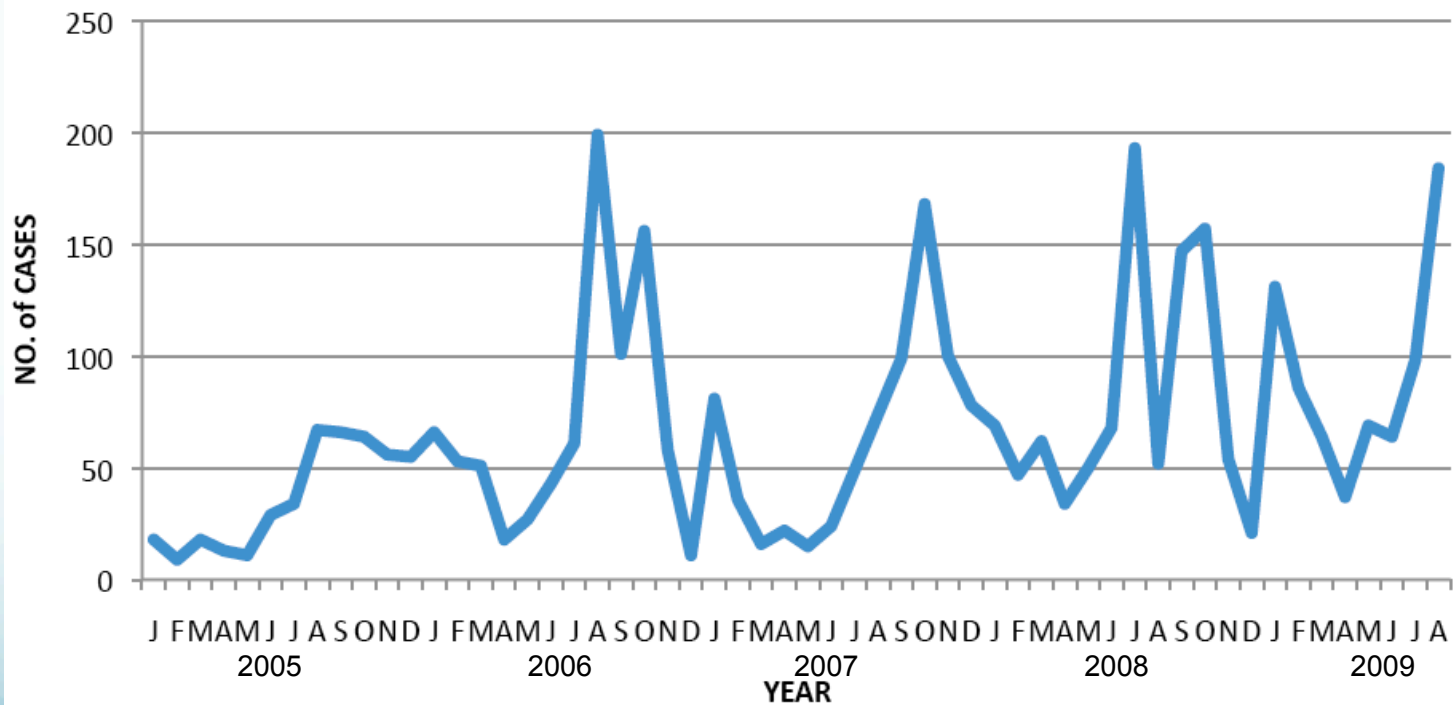
National Disease Surveillance and Response Module



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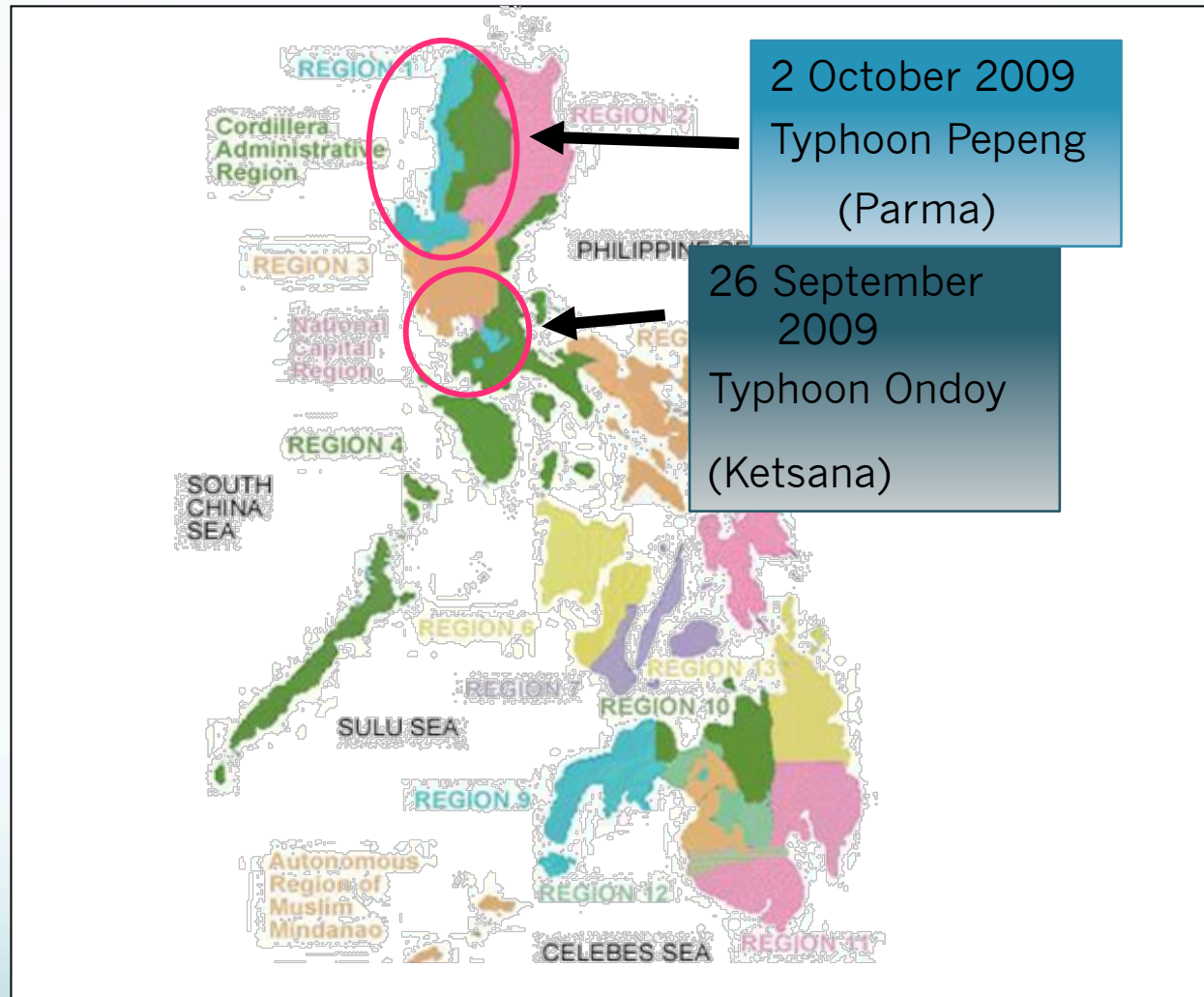
Endemic Leptospirosis

Leptospirosis, By Month Philippines, 2005-Aug
2009



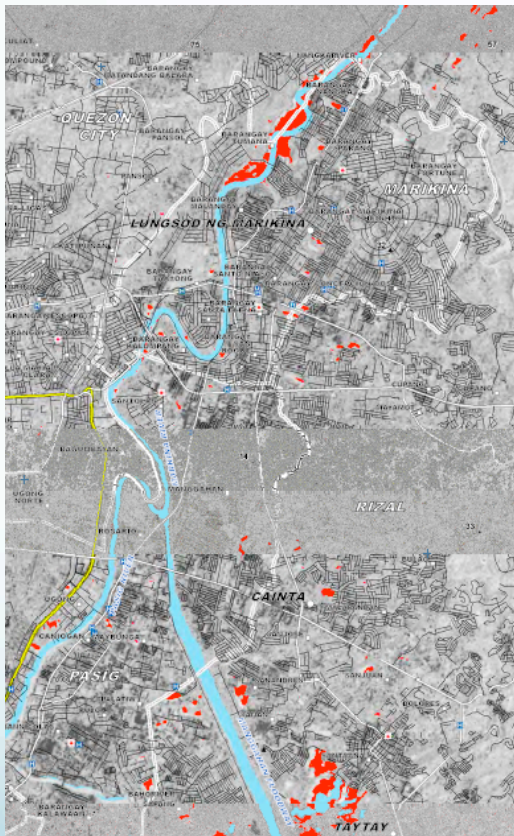
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2009 Twin Torrents

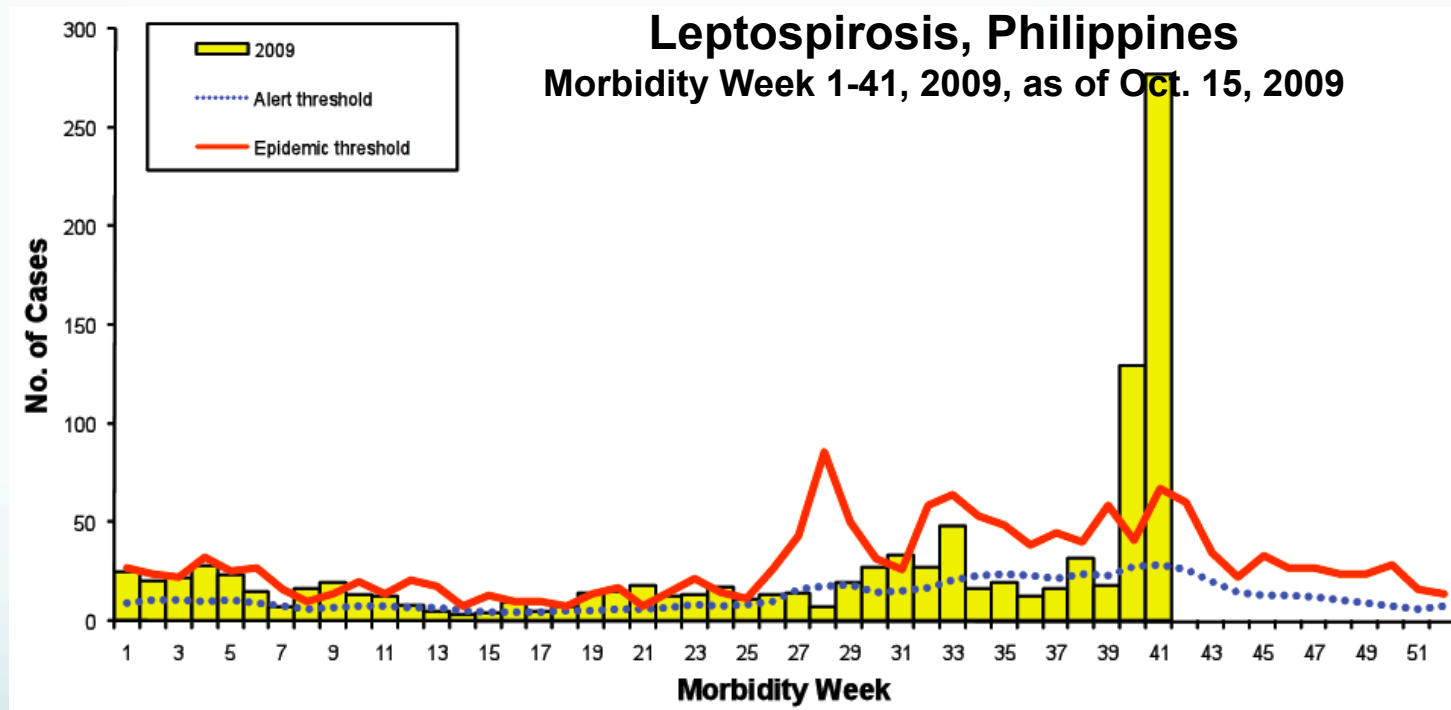


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Aftermath: widespread flooding
over 9 million people affected
disruption of local health services



Aftermath: Leptospirosis outbreak with high case fatality rate



International Health Regulations (2005): Annex 2

Criteria	Risk	Remarks
Serious	YES	Increasing number of deaths; surge capacity threatened
Unusual or unexpected	NO	Leptospirosis expected after flooding; CFR within universal range
International spread	NO	
Interference with travel or trade	NO	

Request for GOARN Support

Scope of Work

1. Provide guidance on clinical aspects of Leptospirosis including investigations of suspect deaths
2. Improve laboratory capacity for early detection and diagnosis
3. Develop strategies for risk communication
4. Strengthen post-disaster surveillance
5. Recommend public health control measures

Important Lessons Learned

- Implement post-disaster surveillance for early detection of outbreaks
- Anticipate that international assistance is an option to maximize response efforts
- Understand that surge capacity is a significant determinant of health outcomes
- Consider that desperate measures to prevent spread may fail because of operational inefficiency

Carrying the Lessons Forward

Disaster Surveillance

- Assess surveillance implementation
- Harmonize post-disaster surveillance systems
- Build laboratory capacity

Carrying the Lessons Forward

Outbreak Response

- Train rapid response teams
- Foster zoonoses collaboration
- Develop Guidelines on Surge capacity



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