


Pandemic Planning The Queensland Experience

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SESSION VII - Emergency Management of Infectious Disease Outbreaks
"Disaster and Emergency Management in the Health Care Sector" - 23 Feb 2016

Outline

- International Health Regulations
 - Communicable Disease Mx in Qld
 - One Health
 - Emerging Infectious Diseases
 - Lessons Learned H1N1 Pandemic
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Queensland

- ❑ the 2nd-largest and 3rd-most-populous state in Australia
- ❑ population of 4,560,059, concentrated along the coast and particularly in the state's South East
- ❑ the world's sixth largest sub-national entity, with an area of 1,852,642 km²



International Health Regulations 2005 (IHR)

- ❑ "to prevent, protect against, control and provide a public health response to the international spread of disease in ways that are commensurate with and restricted to public health risks, and which avoid unnecessary interference with international traffic and trade."
- ❑ require States/Parties to strengthen core surveillance and response capacities at the local and national level, as well as at designated international ports, airports and ground crossings
- ❑ require States/Parties to notify a wide range of events to WHO on the basis of defined criteria indicating that the event may constitute a public health emergency of international concern
- ❑ Global Outbreak and Alert Response Network (GOARN)

COMMUNICABLE DISEASE CONTROL SYSTEM

Special
national
functions

Biosecurity

International engagement

Priority populations

Core
functions

Surveillance

Laboratory
services

Preparedness
and acute
response

Policy and
Programs

Research

System
enablers

Governance and Leadership

Workforce and Training

Partnerships

Communication

Infrastructure and Funding

Communicable Diseases Mx in Qld

STRUCTURE

- 10 Public Health Units (local)
 - Communicable Disease
 - Environmental health
- Communicable Disease Branch (State)
- Communicable Disease Network of Australia
 - National Arbovirus & Malaria Advisory Committee
 - National Immunisation Committee
 - National TB Advisory Committee
- Australian Health Protection Principal Committee

RESPONSE

- Surveillance
- Case management (local)
- Outbreak response (local/State)
- Incident Management Team (State)

Public Health Act 2009

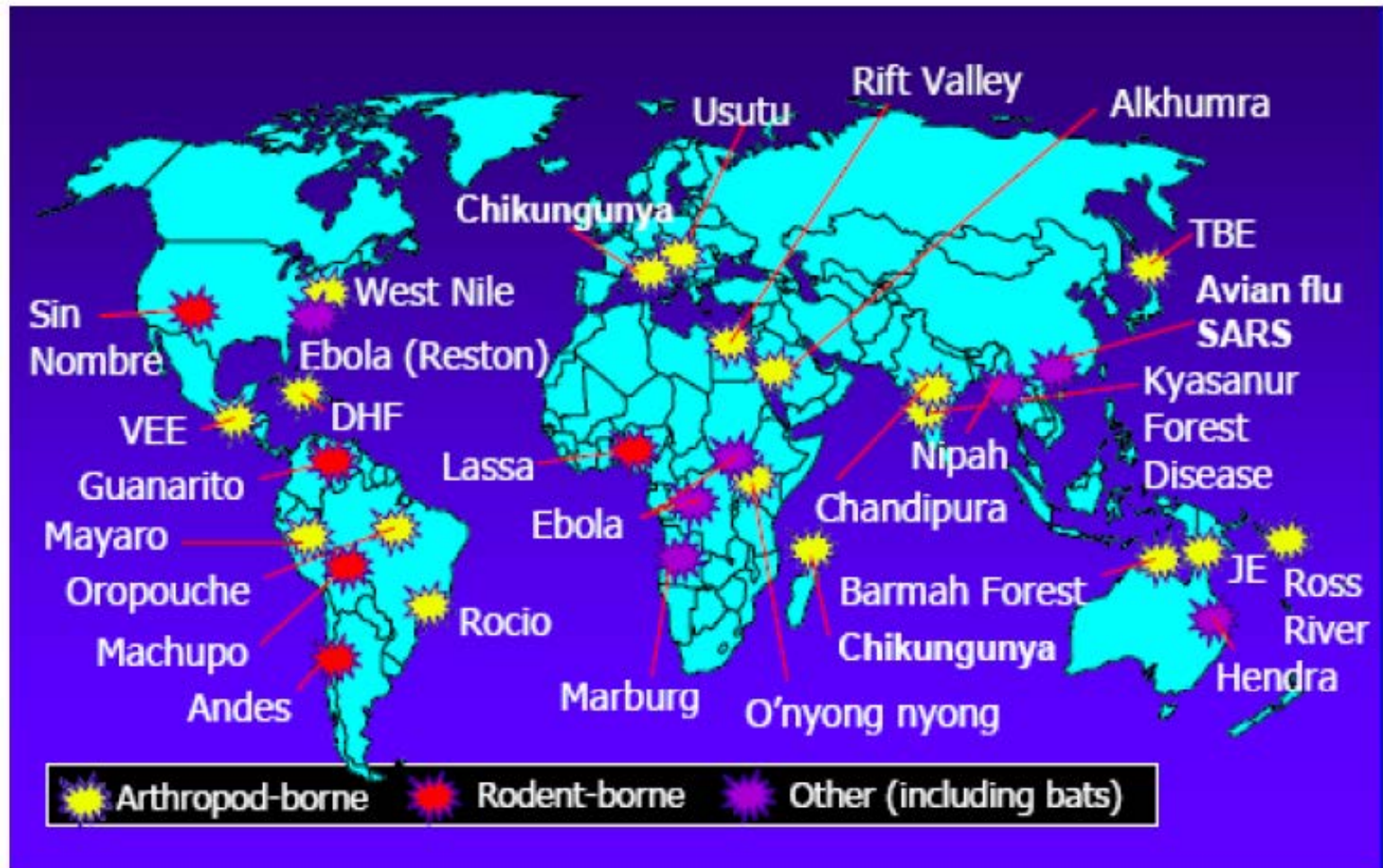
- Multi-agency response or Multi-agency Threat Assessment Team (MATAT)
 - Comprised of relevant State agencies
- National Incident Room (Commonwealth)
- PHEIC - WHO DG

National Health Security Act 2007

One Health

- ❑ One Health (formerly called One Medicine) is dedicated to improving the lives of all species—human and animal—through the integration of human medicine, veterinary medicine and environmental science.
- ❑ The One Health concept is a worldwide strategy for expanding interdisciplinary collaborations and communications in all aspects of health care for humans, animals and the environment. The synergism achieved will advance health care for the 21st century and beyond by accelerating biomedical research discoveries, enhancing public health efficacy, expeditiously expanding the scientific knowledge base, and improving medical education and clinical care. When properly implemented, it will help protect and save untold millions of lives in our present and future generations.¹

One Health and Communicable Disease



Economic impact of selected infectious disease events

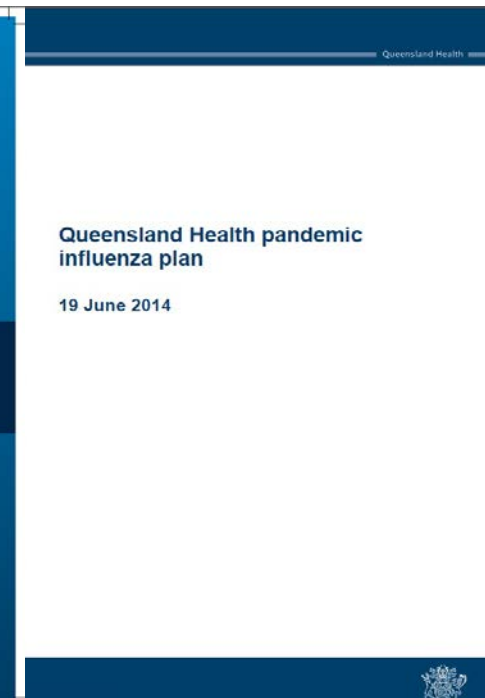
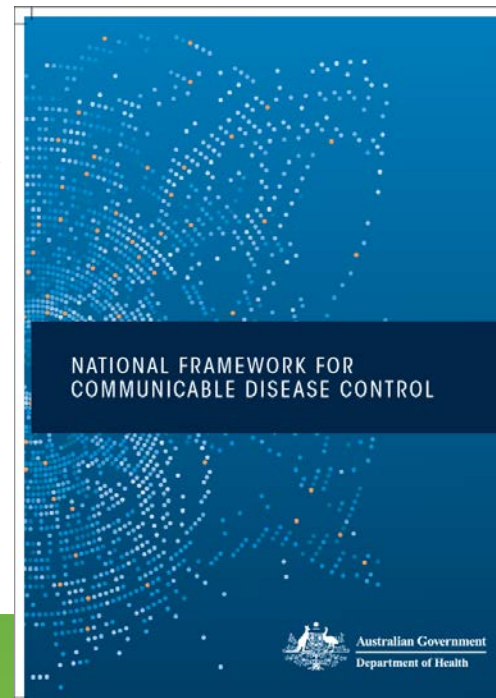
| Year | Country/ City | Disease | Cost (USD) |
|---------|----------------|-----------------|--------------------|
| 1997 | Hong Kong | 'bird flu' | 22 million* |
| 1994 | India | Plague | 2 billion |
| 1990-8 | United Kingdom | BSE+ | 38 billion |
| 1999 | Malaysia | Nipah virus | 540 million* |
| 1999 | New York | West Nile Fever | Almost 100 million |
| 1979-94 | New York city | Tuberculosis | Over 1 billion |
| 2003 | Multi-national | SARS^ | 40 billion |

Source: World Health Organization

Planning

- Early identification and management of potential threats essential
- Australian Health Management Plan for Pandemic Influenza
- QH Influenza Pandemic Plan

Australian Health
Management Plan for
Pandemic Influenza



Partnerships

- Building on current government systems
- Clear authority and reporting
- Standardisation and alignment with current plans and strategies
- Working with key government and non-government agencies



Research

- Real-time
- Appropriateness of the response
- Clinical research
- Review of public health measures during a pandemic and also during seasonal influenza
- CRE in Infectious Disease Emergency Response Research

Border Control

- Overview of management in 2009
- Challenges and issues
- Effectiveness




Antivirals

- Cochrane review
- Effectiveness
 - Individual
 - Population
 - Policy
- Modelling and distribution
- Legislative changes




Vaccination

- Mass vaccination programs
- Candidate and customised vaccine
- Direction from the Australia Government



**Protect our children from swine flu.
Get them vaccinated now.**

The free swine flu vaccine is now available for both children and adults.
Talk to your health worker or medical service about protecting your whole family today.
Call 180 2007 for more information or visit www.healthemergency.gov.au



Infection Prevention and Control

- Isolation V quarantine
- Healthcare workers and personal protective equipment (PPE)
- Stockpiling
- The community experience with masks
- Cough etiquette
- Hand hygiene




Social Distancing

- School closures
- Workplaces
- Major events
- Mass gatherings
- Economic impacts



National Medical Stockpile (NMS)

- Role of the NMS
 - Reform
 - Appropriate inventory levels
 - Timely access
 - Management, auditing and rotation
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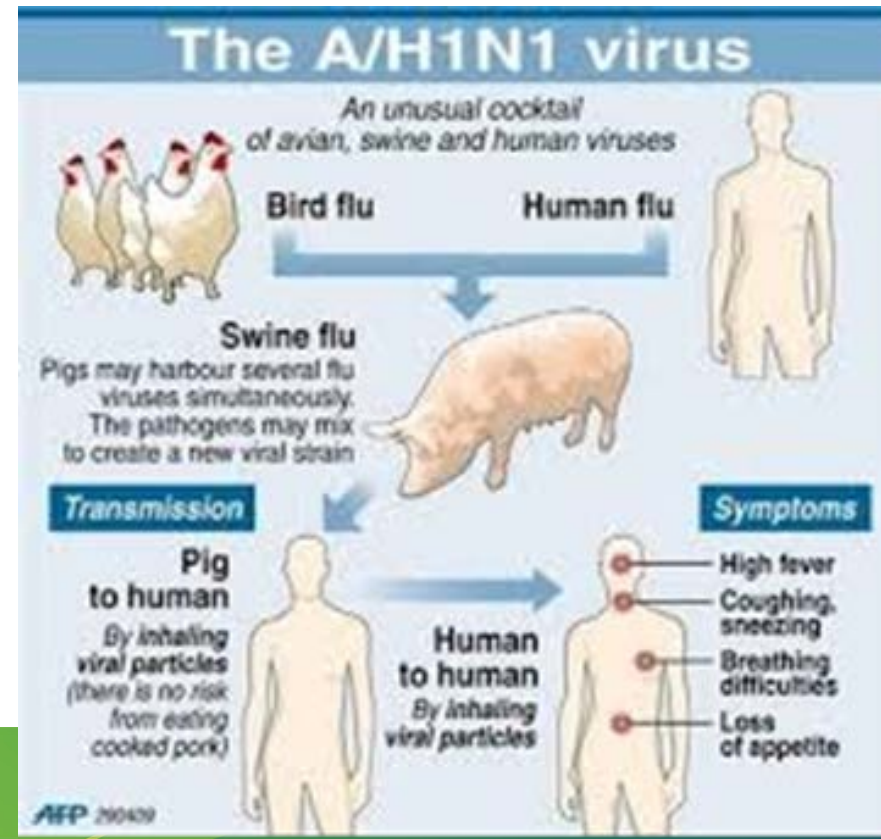
Other issues

- Quarantine and control
- Public good vs. the individual
- Voluntary self isolation
- Contact tracing
- Management of information

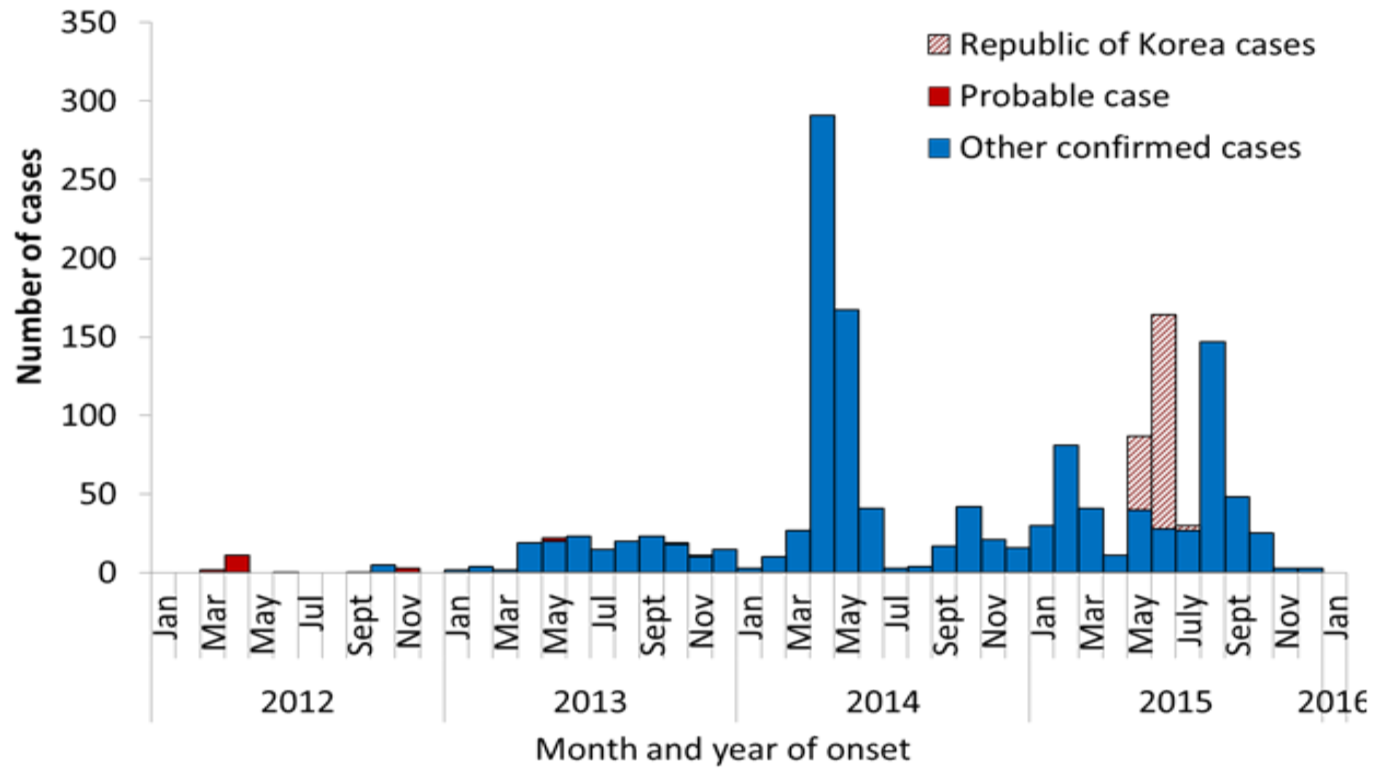


Recent potential threats

- “Swine” influenza: H1N1
- Avian influenza: H5N1; H7N9
- Ebola virus
- MERS CoV
- Zika virus?




MERS CoV



The Department's website – www.health.gov.au/mers-coronavirus

Where to from here

- Plan, Prepare, Monitor, Respond
 - Ensuring a coordinated approach
 - Review disaster management arrangements
 - Monitor and respond to communicable disease threats
 - Management inventory stockpiles.
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Questions

International Network for Health Promoting Hospitals & Health Services

The Task Force on Health Promoting Hospitals and Environment

Asia-Pacific Regional Symposium 2016

Eco-Friendly Hospitals For a Sustainable World

22-23 February 2016 | Griffith University | Brisbane | Queensland | Australia



Program BOOKLET



AN INTERNATIONAL FORUM ON

“DISASTER and EMERGENCY MANAGEMENT in the HEALTH CARE SECTOR”

TUESDAY, Feb 23rd 2016

Griffith University, Southbank Campus

Hosted by Centre for Environment and Population Health, Griffith University
and co-hosted by Tzu Chi Medical Foundation, Tzu Chi University

Venue: Griffith University South Bank Campus, Griffith Graduate Centre Building (S07) Room 1.23

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