

Communicable Diseases in the Western Pacific Region

Inaugural Ceremony of the Scientific Advisory Structure of the Centre for Health Protection, Department of Health, Hong Kong

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Outline of the Presentation

- 1. Current situation of communicable diseases in the Western Pacific Region
 - HIV / AIDS
 - **TB**
 - Vaccine Preventable Diseases
 - Vector borne diseases
- 2. New communicable diseases challenges in the Western Pacific Region
 - SARS
 - Avian Influenza
 - Other emerging diseases
- 3. Roles of Hong Kong SAR in regional and global efforts

Western Pacific Region of WHO



Estimates of yearly AIDS deaths in 2000 & 2005 in 4 selected Western Pacific countries



What is the "3 by 5" Initiative?





WHO/UNAIDS global treatment initiative for AIDS "Addressing a global public



An initiative to to make ARV treatment available to 3 million people by 2005

400,000 people receive treatment today



Measurable, fixed target towards the goal of universal access to ART

A voluntary process

- driven by country
- supported
 - by regional offices
 - with stewardship
 - of HQ

Distribution of notified TB cases in Western Pacific Region (2002)





Case Detection Rate (CDR) and DOTS coverage in 7 High Burden Countries in WPR



Measles cases and coverage WPR 1974-2002











Number of reported dengue cases 2003









date of onset



Lessons learned from SARS

- Timely and transparent information sharing
- National sovereignty and protection of global public health
- Economic impact
- Lack of surge capacity at country and regional level
- Poor public health infrastructure
- Inadequate infection control practices in health care settings
- Multi-sectoral coordination
- Risk communication

Key elements for success in global containment of SARS



- High level of leadership and commitment
- The dedication and hard work of public health staff
- Unprecedented worldwide collaboration among governments and the scientific community

However, there are still issues that need to be addressed...



One year after SARS outbreak

Remaining issues

- Ecology of SARS CoV in environment (natural reservoir)
- Vaccine and antiviral development
- Diagnostic kits



New issues

- Laboratory safety and containment
 - Laboratory acquired cases in Singapore, Taiwan, Beijing



Avian influenza (H5N1) in Asia as of 10 March 2004







Confirmed human cases of avian influenza A(H5N1) as of 17 March 2004

	Cases	Deaths
Thailand	12	8
Viet Nam	22	15
Total	34	23







Status of H5N1 cases by age group Thailand and Viet Nam (N= 34)





Human Public Health Risk

Human cases in affected areas

- Still small number of confirmed cases
- Not enough information to assess public health impact

Emergence of a new influenza virus

- Efficient human to human transmission
- Vast majority of people no immunity to H5
- Pandemic with huge morbidity and mortality impact

Lessons learned from avian influenza outbreak in Asia



- Animal
- Better coordination between human public health and agriculture sectors
 National Level
 Regional / Global Levels
- Human public health vs impact on economy
 Reluctance to report poultry outbreak



Other emerging disease threats

- Nipah / Hendra
- Enterovirus 71
- West Nile Virus
- Hantavirus
- Other zoonoses
- Antimicrobial resistance
- Newly emerging diseases



Emerging communicable diseases Why now?

- Globalization
 - Mass movement of people and goods
- Rapid development
 - Urbanization (ex. TB)
 - Deforestation (ex. Ebola)
- Over-consumption of animal products
 - Animal husbandry practices intensive farming
 - Wild animal markets
- Failure of health systems
 - Heavy focus on curative care
 - Neglect of public health
 - Excessive antibiotic use



Global and Regional Alert and Response Networks

Rational

- None of countries and areas has all necessary expertise / capacity to respond to public health emergencies like SARS
- Gaps between developed and developing countries: e.g. laboratory, epidemiology etc.
- Rapid and transparent information exchange is critical to prevent international spread of disease

Global Outbreak Alert and Response Network



Epidemic Alert and Response

GLOBAL HEALTH SECURITY

Protect the world .../

اللوائح الصحية الدولية

国际卫生条例

International Health Regulations

Règlement sanitaire international

Международные медико-санитарные правила

Reglamento Sanitario Internacional

International Health Regulations = Global legal framework to protect the world from public health threats



World Health Organization



Why have IHR?

- Serious and unusual disease events are inevitable
- Globalisation problem in one location is everybody's problem
- An agreed code of conduct PROTECTS against:
 - 1. the spread of serious risks to public health
 - 2. the unnecessary or excessive use of restrictions in traffic or trade for public health purposes





IHR are not new

Notification: to WHO, of a case of cholera, plague or yellow fever, notify WHO when the area is free from infection - narrow focus

Health Organization: ports, airports and frontier posts are adequately equipped to apply the IHR measures - again focussed on 3 diseases and outdated

Health Measures: The maximum measures applicable to international traffic, which a state may require for the protection of its territory against cholera, plague and yellow fever - rigid and punitive

In revising we needed to overcome these limitations









The Proposed Revision

- Notification: Public health emergency of international concern
- Use information coming from sources other than official member state notifications
- Temporary recommendations
 - IHR emergency committee
 - Based on risk assessment
- National focal point
- Minimum core capacity
 - Capacity building









Major milestones in the revision



• report to EB 113 - green light

- Regional Consultation Meetings (WPRO: April 28-30)
- Amended draft revision proposals
- Intergovernmental Working Group (Nov 2004)
- Final regulatory draft



m report to EB 115
m W H A



Participation in global and regional networks

- Surveillance
- Laboratory
- On-site support

Capacity building in neighbouring countries

• Training



Surveillance

- Rapid dissemination of information on CD from Hong Kong
- Initiate discussions and information sharing with the region



Laboratory networks

- Laboratories in Hong Kong play critical roles as regional and global reference laboratories
 - SARS (3 / 11: Hong Kong labs)
 - Influenza H5N1 (2/6: Hong Kong labs)
 - Specimens were sent to labs in Hong Kong for:
 - SARS (Mainland China, Jan 2004)
 - H5N1 (Human, Viet Nam, Jan 2004)
 - H5N1 (Animal, Viet Nam, Feb 2004)
 - H5N1 (Animal, Mainland China, Apr 2004)
 - SARS (Mainland China, Apr 2004)



On-site Support

- Clinical team to Viet Nam on H5N1 (Feb 2004)
- More potential
 - Various expertise in Hong Kong
 - Practical experience



Capacity building

- Each country should have core capacity to contain disease in early stage
- Training
 - Laboratory
 - Epidemiology
 - Infection control etc.

