The APHA Annual Meeting & Exposition Washington, DC, 05th November 2007

Update on the implementation of the International Health Regulations

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Pan American Health Organization / World Health Organization

From Guénaël Rodier, Director, IHR Coordination, WHO, Geneva





A Changing World

- Population growth
- Population ageing
- Population movements
- Urbanization
- Biotechnologies
- Food processing
- Globalized trade
- Access to remote biotopes
- Industrial pollution
- Climate change
- •









A Changing World

- Collapse of public health infrastructure
- Ineffective vector control programmes (e.g. Chikungunya)
- Development of antimicrobial resistance (e.g. XDR-TB)
- Worries about <u>accidental</u> or deliberate release of biological, chemical, or nuclear, agents

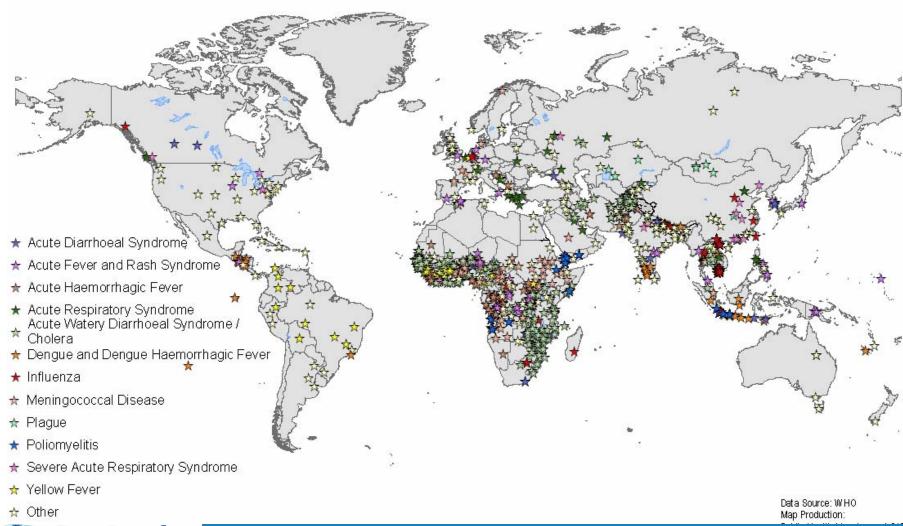
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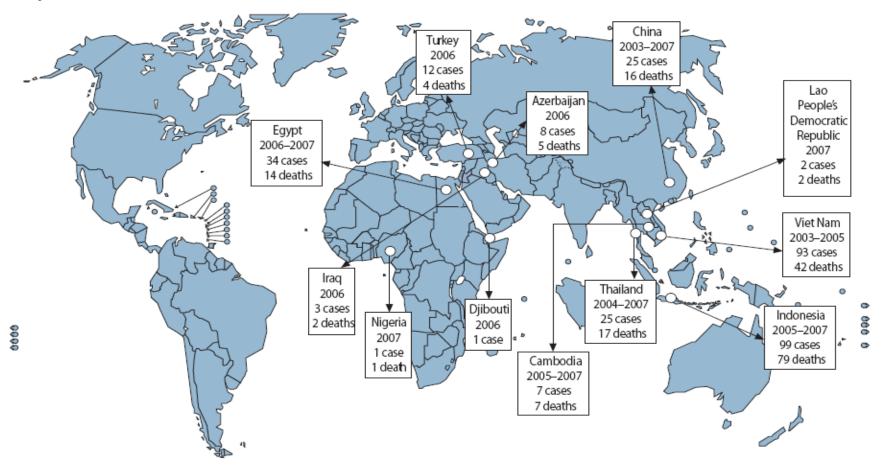
Events of potential international public health concern, January 2001 - June 2007 (n=1976)







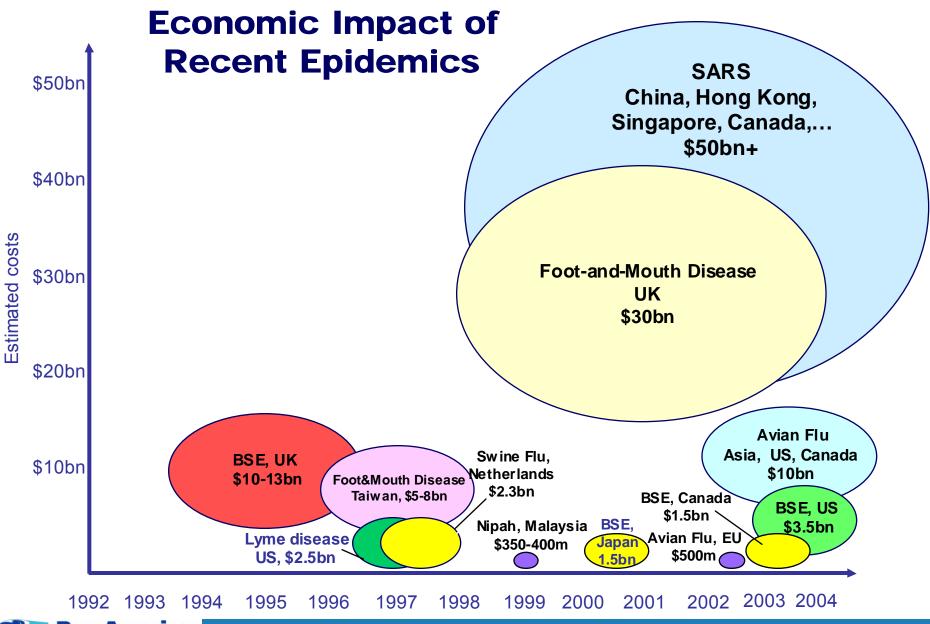
Cumulative number of confirmed human cases of avian influenza A/(H5N1) reported to WHO since 2003



Total number of cases includes number of deaths. WHO reports only laboratory-confirmed cases. All dates refer to onset of illness. Data as of 6 June 2007.





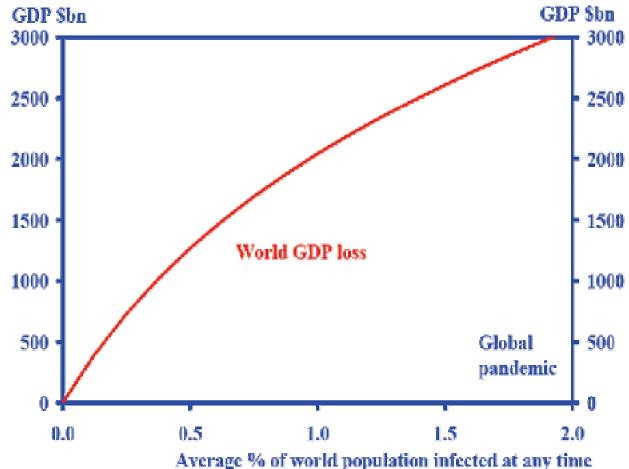






Estimated Economic Impact, Pandemic Influenza



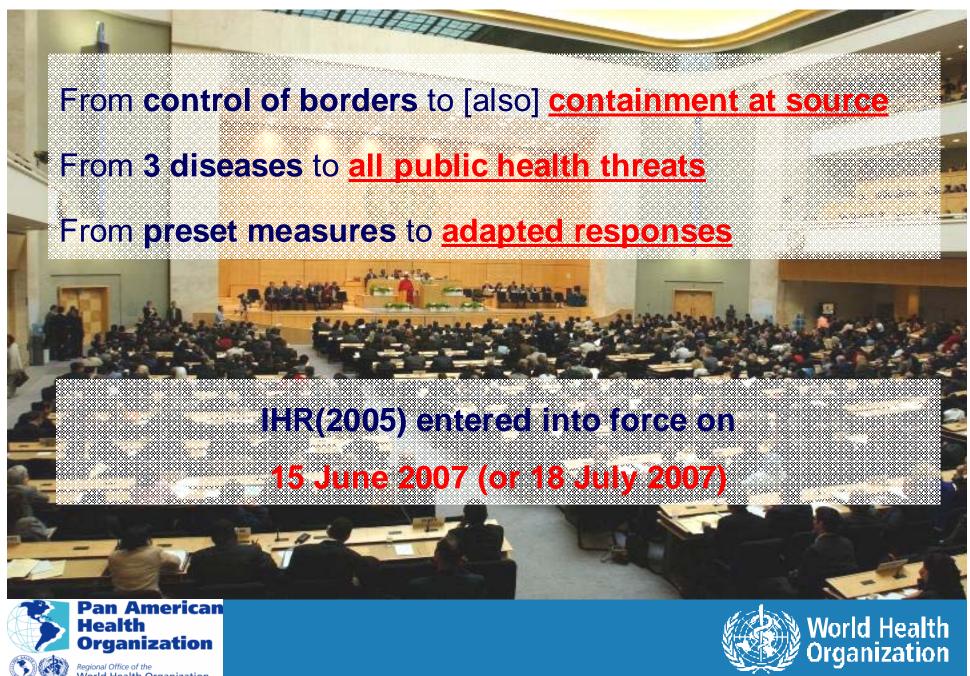


Source: Oxford Economic Forecasting Group





International Health Regulations (2005)



Areas of work for IHR implementation

GLOBAL PARTNERSHIP Foster global partnerships WHO, all countries and all relevant sectors (e.g. health, agriculture, travel, trade, education, defence) are aware of the new rules and collaborate to provide the best available technical support and, where needed, mobilize the necessary resources for effective implementation of IHR (2005).

Other Intergovernmental organizations

e.g. FAO, OIE, ICAO, IMO, UNWTO ...

Development agencies

e.g. AFD, CIDA, DFID, JAICA, USAID, ADB, ASEAN, EC, MERCOSUR, WB ...

▶ WHO Collaborating Centres and Technical partners

International Networks / National agencies / NGOs: e.g. GOARN, IANPHI, Pasteur IN, MSF, TEPHINET, GEISS, CDC, ECDC, HPA, InVS ...

▶ Industry associations e.g. ACI, IATA, ISF, ISO ...





STRENGTHEN NATIONAL CAPACITY

2 Strengthen national disease surveillance, prevention, control and response systems

Each country assesses its national resources in disease surveillance and response and develops national action plans to implement and meet HR (2005) requirements, thus permitting rapid detection and response to the risk of international disease spread.

3 Strengthen public health security in travel and transport

The risk of international spread of disease is minimized through effective permanent public health measures and response capacity at designated airports, ports and ground crossings in all countries.

- Ports
- Airports
- Ground crossings

23 of 66 articles and 8 of 9 annexes directly address travel, trade, and transport.

- Health system
- Epidemiology
- Laboratory
- Preparedness
- Case management
- Infection control
- Social mobilisation
- Communication

• . . .



STRENGTHEN NATIONAL CAPACITY

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Each country assesses its national resources in disease surveillance and response and develops national action plans to implement and meet IHR (2005) requirements, thus permitting rapid detection and response to the risk of international disease spread.

- A commitment of countries (e.g. National budget line)
- Build on existing national and WHO regional strategies for

surveillance and response

e.g. National Pandemic Preparedness Plans

- ▶ Direct support from WHO Regional Offices
- ► Technical guidance from WHO Offices

and WHO Collaborating Centres e.g. CDC, NIH, Universities ...







June 2007 – June 2009 Assessing Public Health Resources



Surveillance and response capacity

- Early warning and detection systems (information, communications etc)
- Human resources (rapid investigation teams, surveillance officers, ...)
- Equipment and drugs (PPEs, sampling materials, drugs, stockpiles)
- Who's doing what and where (NGOs, government, private)





June 2009 – June 2012 Implementing national action plans



Surveillance and response system

- Investigation/response team
- Safe transport of specimens
- Reference laboratory
- Laboratory EQA programme
- Epidemiology & data analysis
- Risk assessment
- Case management
- Communication
- Social mobilization
- Inter-sectoral collaboration





Strengthen public health security in travel and transport

The risk of international spread of disease is minimized through effective permanent public health measures and response capacity at designated airports, ports and ground crossings in all countries.

At all times

(Annex 1B)

- Access to medical service
- Transport of ill travellers
- Inspection of conveyances

 (e.g. Ship Sanitation Control Certificate)
- Control of vectors / reservoirs

For responding to events

- Emergency contingency plan
- Arrangement for isolation (human, animal)
- Space for interview / quarantine
- Apply specific control measures





PREVENT AND RESPOND TO INTERNATIONAL PUBLIC HEALTH **EMERGENCIES**

- Strengthen WHO global alert and response systems
- Strengthen the management of specific risks
 - Influenza
 - polio
 - SARS
 - smallpox
 - cholera
 - meningitis
 - yellow fever
 - food safety
 - chemical safety
 - radionuclear safety

Timely and effective coordinated response to international public health risks and public health emergencies of international concern.

Systematic international and national management of the risks known to threaten international health security, such as influenza, meningitis, yellow SARS, poliomyelitis, food contamination, chemical and radioactive tances.

- Intelligence
- Verification
- Risk assessment
- Response (GOARN)
- Logistics





PREVENT AND RESPOND TO INTERNATIONAL PUBLIC HEALTH EMERGENCIES

4 Strengthen WHO global alert and response systems

Timely and effective coordinated response to international public health risks and public health emergencies of international concern.



Verification with Member States

Risk Assessment

Response Strategy and Operations





IHR Communications

"Shall be accessible at all times" (Art. 4)

IHR National Focal Point



- Notification
- Consultation
- Verification

WHO IHR Contact Point



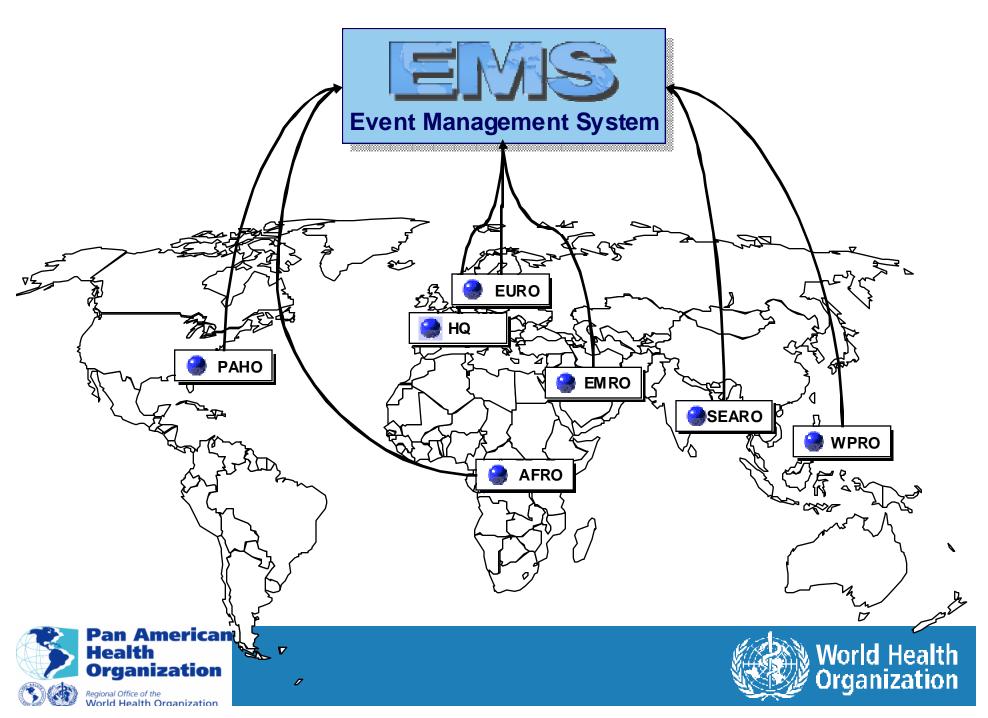
WHO Regional Office

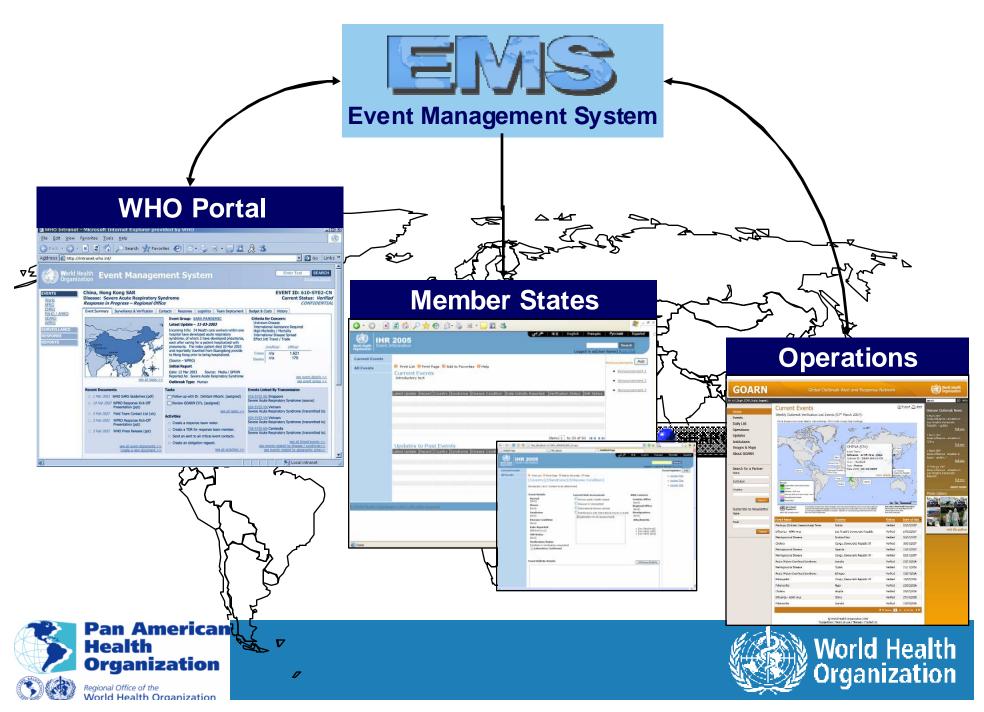


Designated national institution

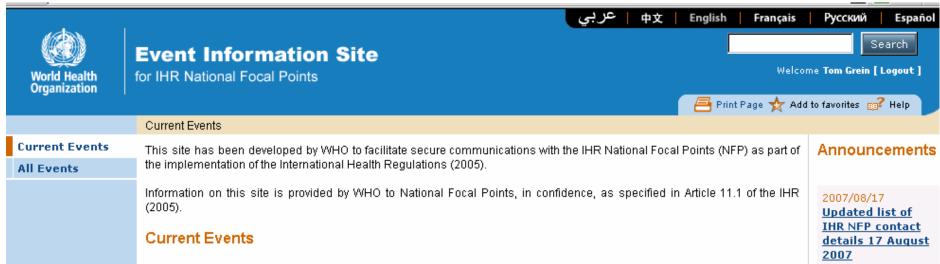








IHR Event Information Site for NFPs



This section lists ongoing events which are currently being assessed against the criteria for public health risks of international importance under the IHR (2005).

Click an event's **Updated** link to see the current risk assessment and most recent updates for the event.

Updated	Country	Hazard	Syndrome	Disease	Information Received	IHR Status
2007/08/21	Democratic Republic of the Congo	Infectious		Poliomyelitis, acute paralytic, wil	2006/05/18	Public Health Risk (PHR)
2007/08/20	Indonesia	Infectious	Acute Respiratory Syndrome	Influenza due to identified avian o	2005/07/13	Public Health Risk (PHR)
2007/08/17	Comoros	Infectious		Cholera	2007/06/27	Public Health Risk (PHR)
2007/08/17	Uganda	Infectious		Marburg Haemorrhagic Fever	2007/07/31	Public Health Risk (PHR)

Total number of items: 4

Updates to Past Events



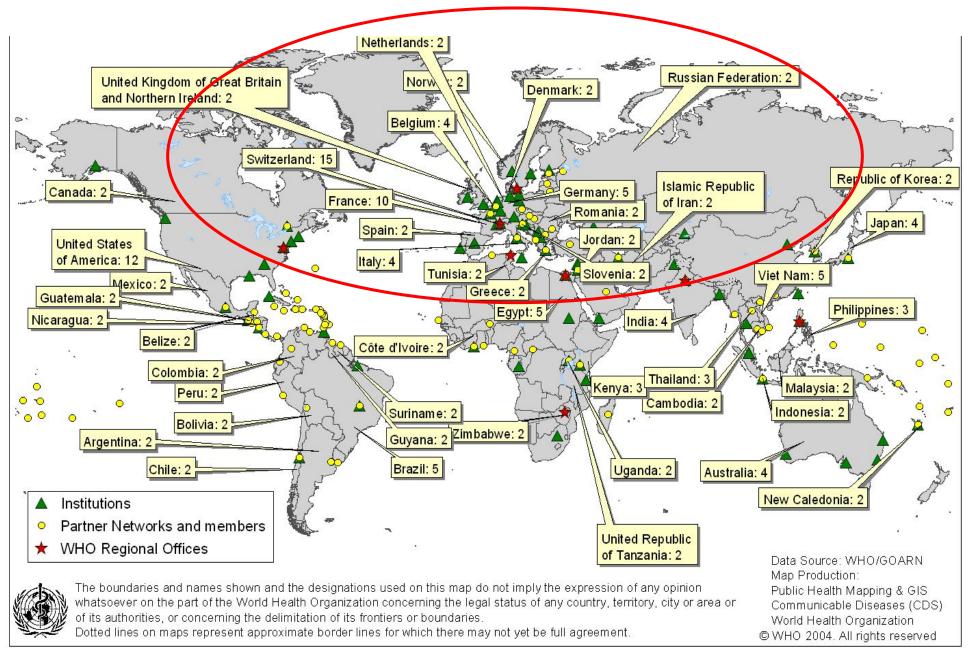


ALERT & RESPONSE - DAILY SUMMARY - 05 September 2007

Department of Epidemic and Pandemic Alert and Response (EPR) World Health Organization (WHO), Geneva, Switzerland

Hazard/Disease/Synd rome	Location - onset - Epidemiological data	Decision and action	Publications
Hazard: FOOD SAFETY Syndrome: N/A Disease: N/A Aetiology: L. MONOCYTOGENES	UNITED STATES OF AMERICA Georgia	LAST INCOMING INFO Follow up 28-Aug-2007 Further information requested from USA Infosan contact points (address of manuafcturer, L. monocytogenes count)	POINTS OF CONTACT HQ: Jenny Bishop RO: M. Libel
Event ID 2007-E-2802 INITIAL REPORT: National Governmental agency - not IHR NFP FSNET 28-Aug-2007	FIRST REPORT VERIFIED cases:; deaths: UNOFFICIAL cases:; deaths: LAST UPDATE: VERIFIED cases:; deaths: UNOFFICIAL cases:; deaths: NEW AFFECTED AREAS: CONFIRMED BY: LABORATORY: No	SUMMARY INFO • 28-08-07 - Listeria monocytogenes was found in a sample of Ricotta Salata cheese collected as part of the department's food safety program. The contamination was found in a package marked SELL BY 01/21/08. The brand name of the cheese is Locatelli and the importer is The Ambriola Company, Inc., of Jersey City, New Jersey 07305. The cheese is imported from Italy. ACTION INFOSAN verification request sent to Italy	Daily list: 28 Aug 2007 OVL: No (0) Web: No Press release: No CRITERIA FOR INT.C. • Serious Public Health Impact • Int. Disease spread
Hazard: UNDETERMINED Syndrome: ACUTE FEBRILE SYNDROME Disease: N/A Actiology: N/A Event ID 2007-E-2799 INITIAL REPORT: News media	INDIA Chakshyampur village in Baharia FIRST REPORT VERIFIED cases:; deaths: UNOFFICIAL cases:; deaths: LAST UPDATE: VERIFIED cases:; deaths: UNOFFICIAL cases:; deaths:	LAST INCOMING INFO 24-Aug-2007 News: Four children of a family in Chakshyampur vilage in Baharia suffered from a mystery disease wth high fever during the past 7 days, and 3 of them died in the past 2 days. Two of them died under the treatment. They were transferred from hospital to hospital seeking treatment. Their symptoms resembled those of viral encephalitis. The District Epidemic Team was sent. The pathology samples were taken for malaria and also sent to the Dept. of Microbiology at MLN Medical College.	POINTS OF CONTACT HQ: RO: Khanchit Limpakamjanarat Daily list: 24 Aug 2007 OVL: No (0) Web: No Press release: No

GOARN: Institutions and Partner Network



GOARN Site

GOARN

Global Outbreak Alert and Response Network



Home About GOARN | Workspaces | Resources | Contact us

Global Outbreak Alert and Response Network

This site has been developed by WHO for the Global Outbreak Alert and Response Network to enhance secure communications and promote collaboration among partnering institutions and networks. This site provides timely information and regular updates on acute public health risks/events of international importance with the dual aim of enhancing operational readiness for GOARN response and facilitating access to the technical resources of GOARN institutions.

Protecting the confidentiality of sensitive information obtained via this site, is critically important to timely operational communications. Partners must ensure a high level of discretion when dealing with sensitive issues and are requested to contact WHO (email goarn@who.int) on any issue which raises concerns and before taking any independent action.

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LATEST EVENTS

Event name

Acute Neurological Syndrome, unspecified, Bangladesh ! NEW

Meningococcal disease, Indonesia ! NEW

Poliomyelitis, acute paralytic, wild virus, imported, Australia NEW

Salmonella infections, other , Slovenia ! NEW

Cholera, Sudan I NEW

Read more »

OPERATIONS



World Health Organization 2007

<u>UPDATES</u>



Read more »



Read more »

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World Health Organization



GOARN WHO Support System

Operational Support Team

GOARN management

Field epidemiology unit

Logistics unit

Field logistics

Stockpiles

Logistics mobility unit (Dubai)

Electronic tools

Event Management System (EMS)

Field Information Management System (FIMS)

Early Warning Alert and Response System (EWARN)

Strategic Health Operations Centre (SHOC)



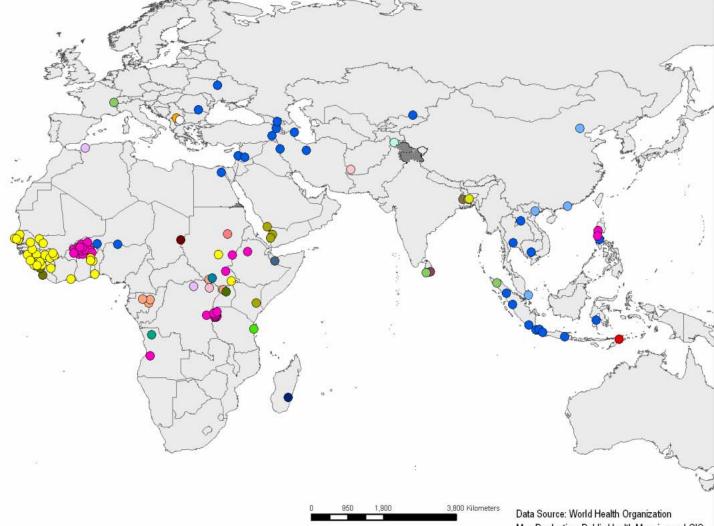






WHO/GOARN Outbreak Response Operations 2000-2007

- Acute Haemorragic Fever Syndrome
- Acute Hepatitis E.
- Acute Neurological Syndrome
- Acute Respiratory Syndrome
- Chemical Incident
- Cholera
- Crimean-Congo Haemorrhagic Fever
- Dengue Fever
- Ebola Haemorrhagic Fever (EHF)
- Hysteria
- Influenza
- Influenza A/H5 virus (human cases)
- Lassa Fever
- Marburg Haemorrhagic Fever
- Measles
- Meningococcal Disease
- Myocarditis
- Nipah Viral Disease
- Pertussis
- Plague
- Rift Valley Fever
- Severe Acute Respiratory Syndrome (SARS)
- Suspected Dengue Haemorrhagic Fever
- Suspected Viral Haemorrhagic Fever
- Tsunami
- Viral Haemorrhagic Fever
- Yellow Fever



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

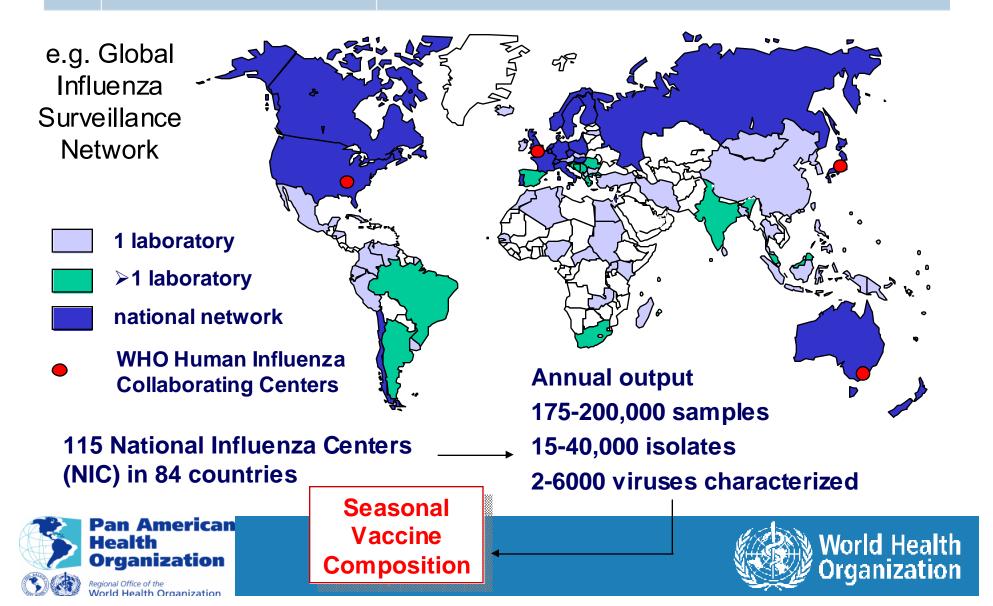
Map Production: Public Health Mapping and GIS Communicable Diseases (CDS)
World Health Organization

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5 Strengthen the management of specific risks Systematic international and national management of the risks known to threaten international health security, such as influenza, meningitis, yellow fever, SARS, poliomyelitis, food contamination, chemical and radioactive substances.



Strengthen threat-specific control programmes

- Anthrax
- Anti-microbial resistance
- Arboviruses (e.g. Rift valley fever, West Nile fever)
- Chemical Safety
- Cholera and other epidemic diarrhoeal diseases
- Dengue
- Food safety
- HIV/AIDS
- Influenza (seasonal, avian, and pandemic threat)
- Malaria
- Measles and other vaccine-preventable diseases
- Meningococcal meningitis
- Poliomyelitis eradication initiative
- Radiation and environmental health
- Smallpox
- SARS and other severe acute respiratory infections
- Tuberculosis
- Yellow Fever
- Viral haemorrhagic fevers (e.g. Ebola, Marburg, Lassa)
- Zoonoses

> 95% of
day-to-day
threats to
international
health
security!

... / ...

	LEGAL ISSUES AND MONITORING		
6	Sustain rights, obligations and procedures	New legal mechanisms as set out in the Regulations are fully developed and upheld; all professionals involved in implementing IHR (2005) have a clear understanding of, and sustain, the new rights, obligations and procedures laid out in the Regulations.	
7	Conduct studies and monitor progress	Indicators are identified and collected regularly to monitor and evaluate IHR (2005) implementation at national and international levels. WHO Secretariat reports on progress to the World Health Assembly. Specific studies are proposed to facilitate and improve implementation of the Regulations.	

- **▶ IHR Roster of Experts**
- **▶** Emergency Committee
- **▶** Review Committee
- Progress report to the World Health Assembly





Main Challenges

- National and international awareness
- ► Playing "the game" or not...
- Intersectoral collaboration
 - Health, Agriculture, Education, Defence, Transport, Trade
- Resource mobilization
 - Countries (national budget) with <u>initial support</u> from bilateral donors, WHO, foundations, private sector, ...
 - "Rich" countries supporting the "poor" countries...





Thank you

www.who.int/ihr www.paho.org

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Epidemic Alert and Response Team, IHR regional focal point
Pan American Health Organization / World Health Organization

