

# Preparedness planning and the aviation sector

Dr Anthony Evans

Chief, Aviation Medicine Section

International Civil Aviation Organization

Lima/Cuzco  
December 2009



# Plan

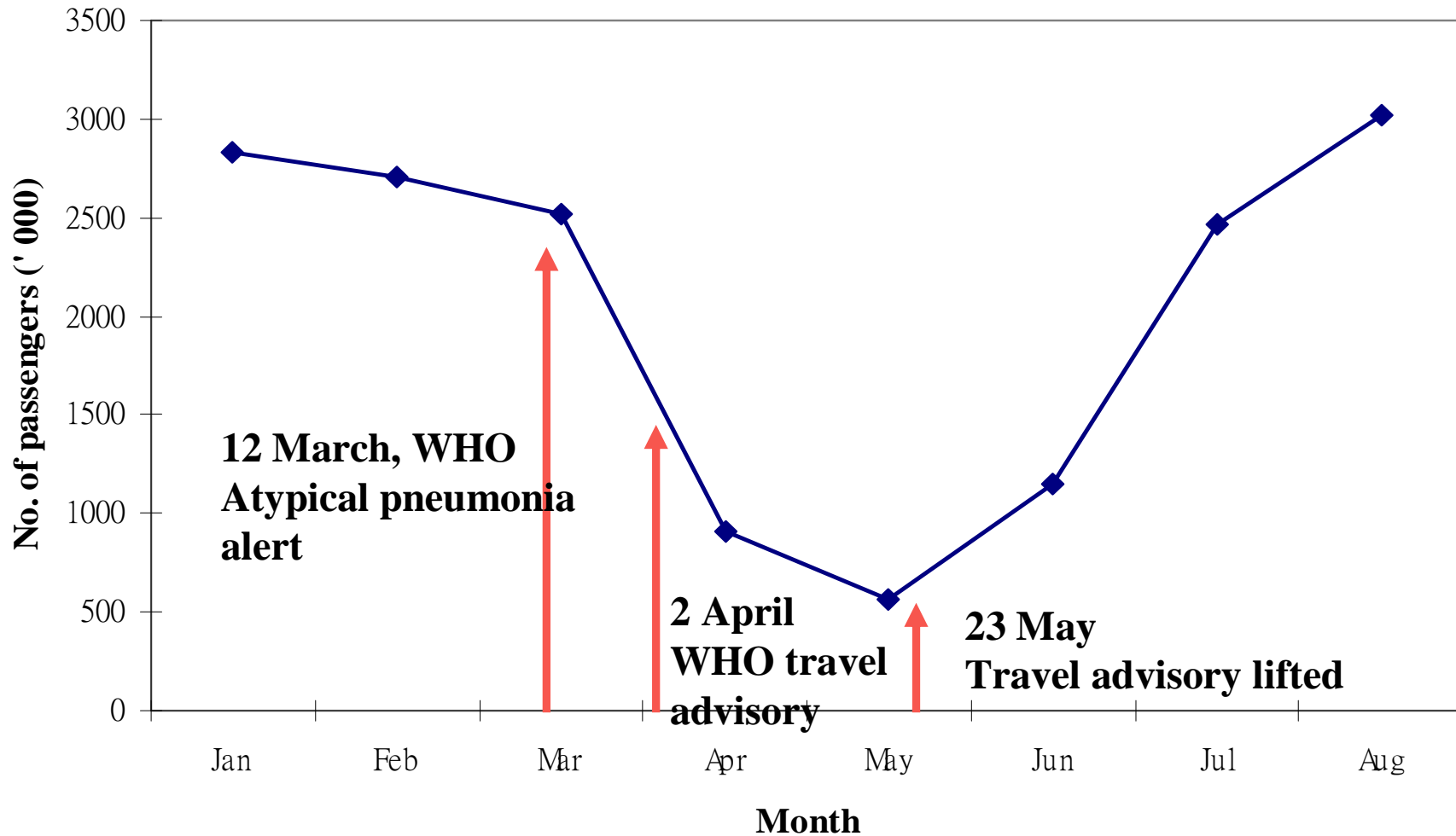
- Pandemic planning in aviation
  - Chicago Convention
- Communication
  - UN
  - Pilot/Air Traffic
- ICAO provisions
- Airport screening

# 2003: SARS

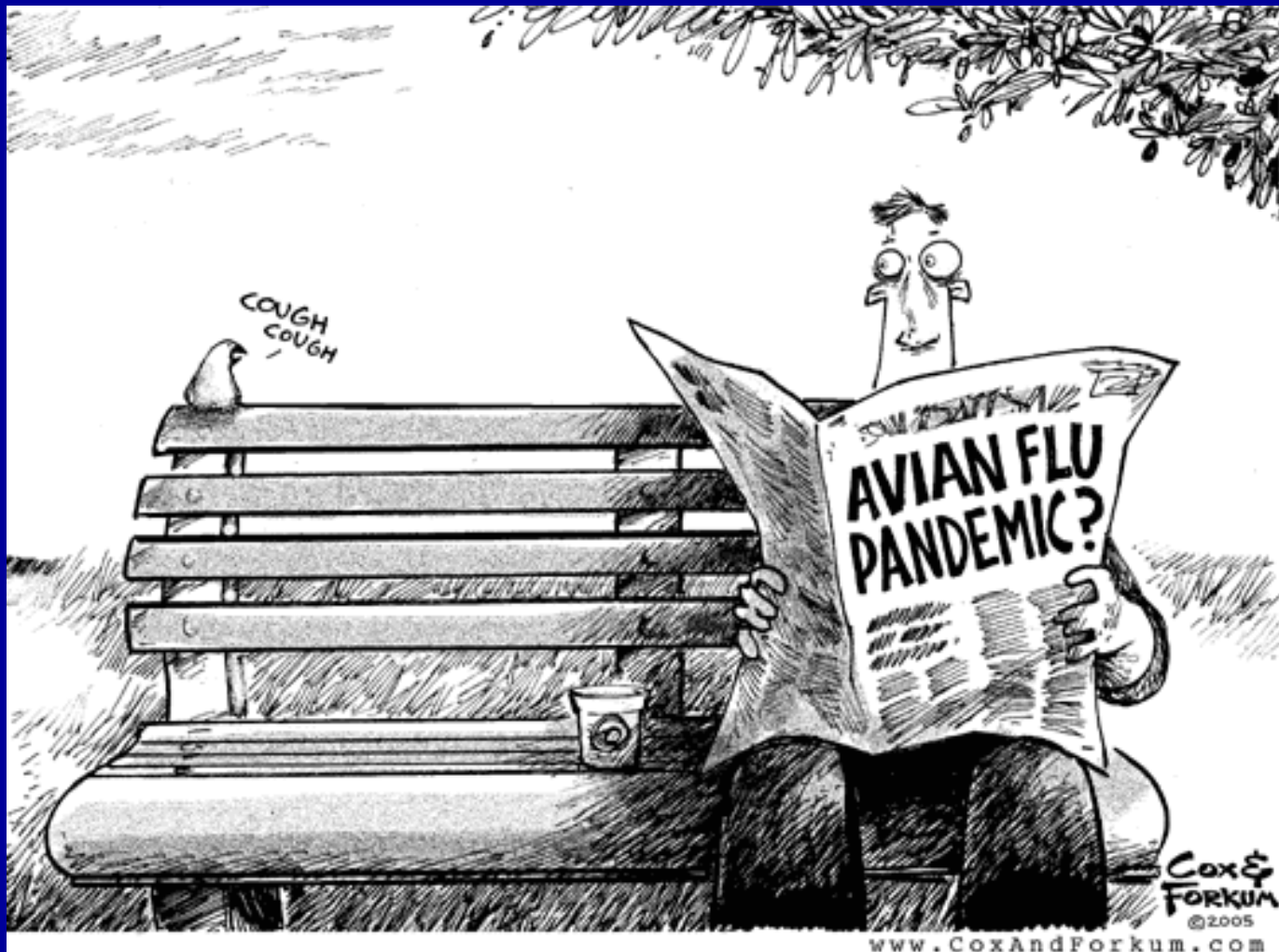


© REUTERS

# Passengers of Hong Kong International Airport, January to August 2003



# 2005 – Avian influenza



EPIDEMIC  
ALERT &  
RESPONSE

# WHO global influenza preparedness plan

The role of WHO and recommendations for  
national measures before and during pandemics

# Questions – local outbreak

- 35% reduction of staff for 8 weeks
- Aircraft diversions
- Advice to passengers regarding risk
- Advice to workers regarding risk
  - PPE, training
- Source of advice
- Traveller screening
- Traveller follow-up
- Tamiflu/vaccinations (e.g. pilots/air traffic controllers)
- Sudden demand to leave area
- Recommendation to reduce aircraft operations
  - WHO containment strategy

# Questions – inbound suspected case

- Notification of PHA
- Parking area
- Advice to travellers
- Holding area for travellers
- Laboratory diagnostic facilities
- Transport to hospital
- PPE and training for staff
- Follow-up of passengers
- Cleaning/Disinfection of aircraft

2009

# Influenza A(H1N1)



# Article 14, Convention on International Civil Aviation (Chicago Convention – 1944)

- ‘Each contracting State agrees to take effective measures to prevent the spread by means of air navigation of cholera, typhus (epidemic), smallpox, yellow fever, plague, and ***such other communicable diseases as the contracting States shall from time to time decide to designate....***’



# Changes to ICAO provisions 2007

## Annex 9 – Facilitation

- States to have a pandemic preparedness plan for aviation - integrated into national plan
- Cabin crew advice on how to identify a suspected case (changes to aircraft declaration)
- Passenger locator card for contact tracing agreed by WHO (collaboration with IATA)

# Identification of case of communicable disease by cabin crew

## APPENDIX 1. GENERAL DECLARATION

### GENERAL DECLARATION

(Outward/Inward)

Operator .....

Marks of Nationality and Registration ..... Flight No. .... Date .....

Departure from ..... (Place) ..... Arrival at ..... (Place) .....

### FLIGHT ROUTING

("Place" Column always to list origin, every en-route stop and destination)

PLACE	NAMES OF CREW*	NUMBER OF PASSENGERS ON THIS STAGE**	Departure Place:	
			Embarking .....	Through on same flight .....
			Arrival Place:	
			Disembarking .....	Through on same flight .....

#### Declaration of Health

Name and seat number or function of persons on board with illnesses other than airsickness or the effects of accidents, who may be suffering from a communicable disease (a fever — temperature 38°C/100°F or greater — associated with one or more of the following signs or symptoms, e.g. appearing obviously unwell, persistent coughing, impaired breathing, persistent diarrhoea, persistent vomiting, skin rash, bruising or bleeding without previous injury; or confusion of recent onset, increases the likelihood that the person is suffering a communicable disease) as well as such cases of illness disembarked during a previous stop

For official use only

Details of each disinfecting or sanitary treatment (place, date, time, method) during the flight. If no disinfecting has been carried out during the flight, give details of most recent disinfecting .....

Signed, if required, with time and date .....  
Crewmember concerned

I declare that all statements and particulars contained in this General Declaration, and in any supplementary forms required to be presented with this General Declaration, are complete, exact and true to the best of my knowledge and that all through passengers will continue/have continued on the flight.

SIGNATURE .....

Amendment A, part 01 Pilot-in-command

Fever (38°C/100°F or greater) plus one or more of the following signs or symptoms:

- Appearing obviously unwell
- Persistent coughing
- Impaired breathing
- Persistent diarrhoea
- Persistent vomiting
- Skin rash
- Bruising or bleeding without previous injury
- Confusion of recent onset

297 mm (or 11 3/4 inches)



# Changes to ICAO provisions 2009

- Annex 6 – Operation of Aircraft
  - ‘Universal precaution kit’ for managing on board communicable disease

# On board medical supplies

- Inclusion of a ‘universal precaution kit’
  - Managing on board communicable disease event
  - Personal protective equipment
  - Absorbent powder
  - Germicidal disinfectant
  - Biohazard disposal bag etc.
- Inclusion of thermometer in first aid kit

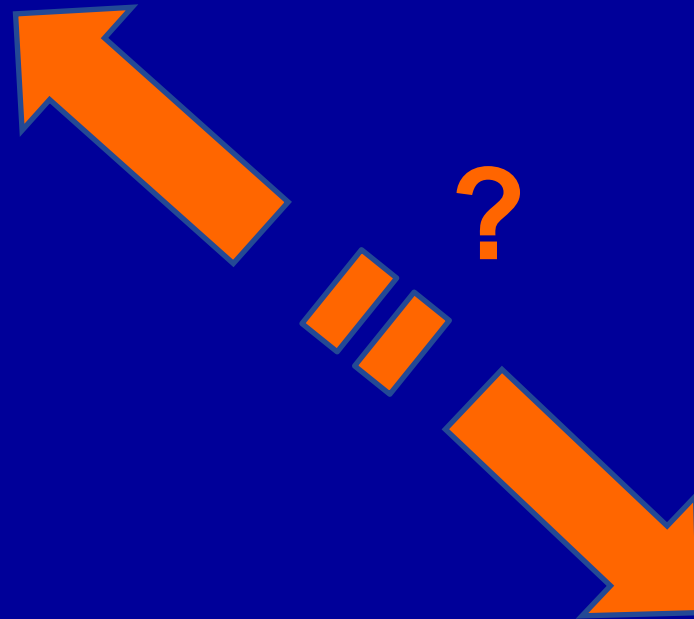
# Changes to ICAO provisions 2009

- Annex 11 and Annex 14
  - Public health emergencies included in air traffic and aerodrome contingency plans

# Procedures for Air Navigation Services – Air Traffic Management (PANS-ATM)

- procedure for utilising Air Traffic Control for notifying destination of communicable disease

# CURRENT SITUATION: AIRLINE NOTIFICATION OF EVENT



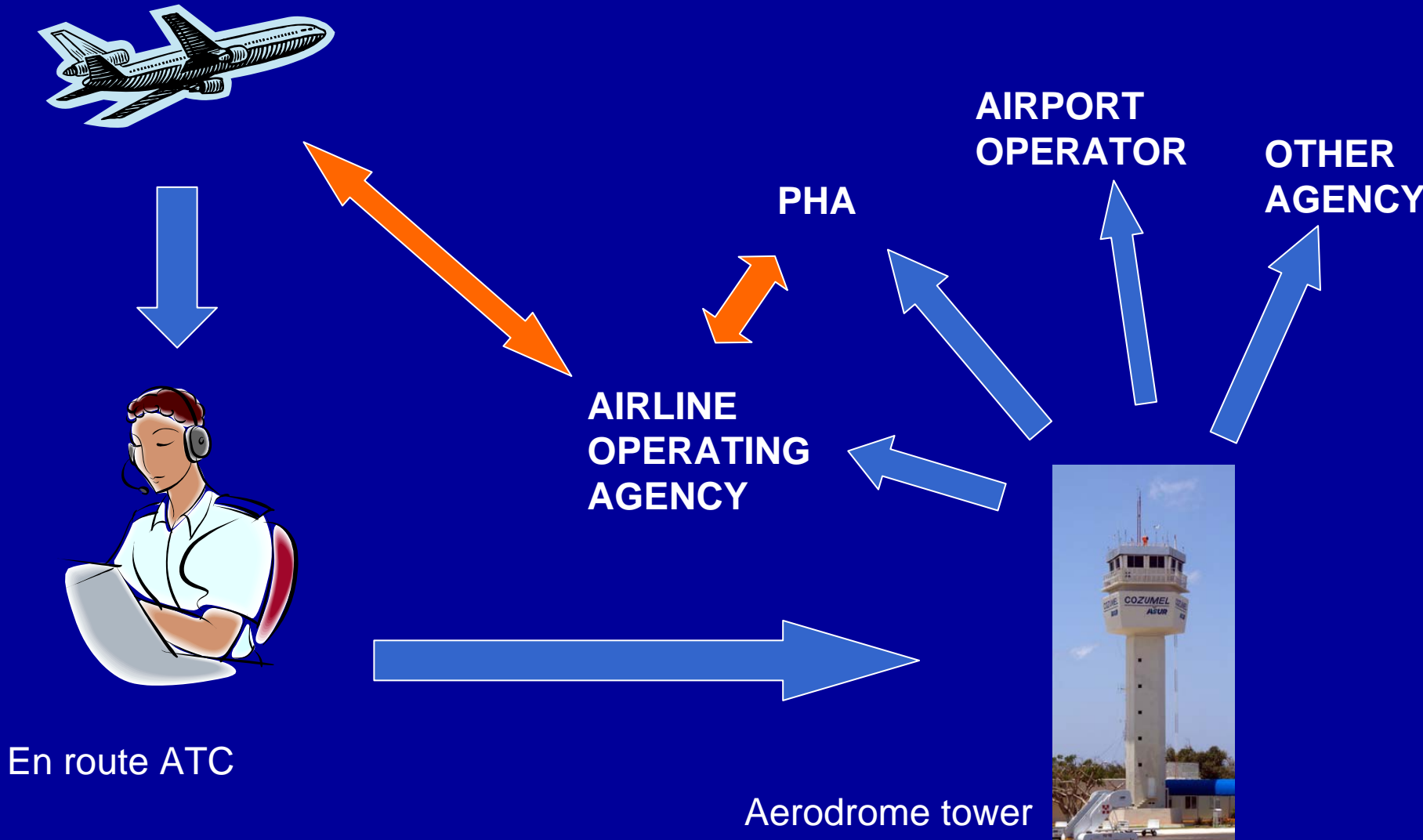
PHA



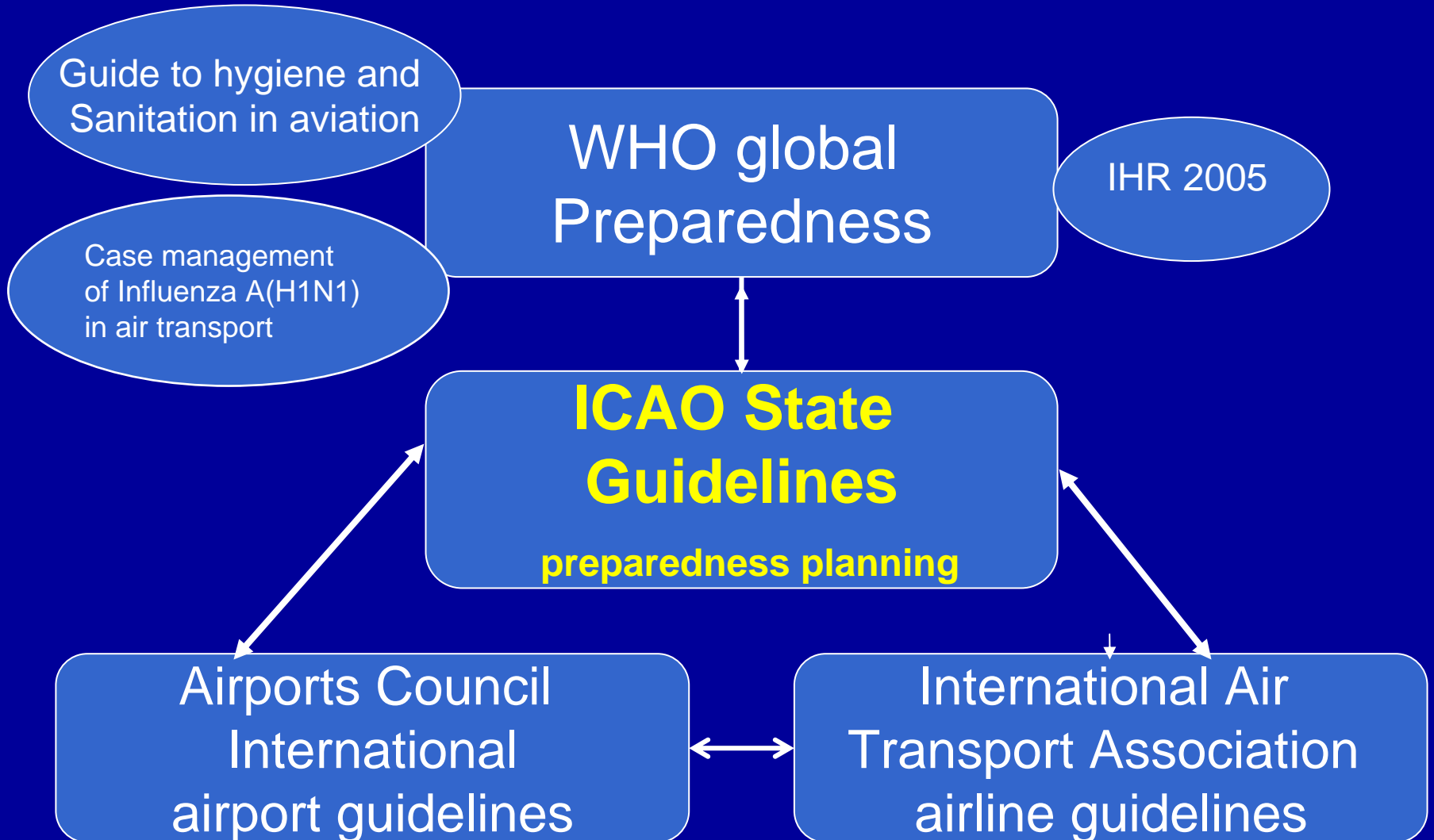
AIRLINE  
OPERATING  
AGENCY



# ATC NOTIFICATION OF EVENT



# Aviation related actions



“Plan for the worst,  
hope for the best”

# Useful websites

- ICAO  
<http://www.icao.int/icao/en/med/guidelines.htm>
- WHO  
[http://www.who.int/ihr/travel/A\(H1N1\)\\_air\\_transport\\_guidance.pdf](http://www.who.int/ihr/travel/A(H1N1)_air_transport_guidance.pdf)  
[http://www.who.int/water\\_sanitation\\_health/hygiene/ships/guide\\_hygiene\\_sanitation\\_aviation\\_3\\_edition.pdf](http://www.who.int/water_sanitation_health/hygiene/ships/guide_hygiene_sanitation_aviation_3_edition.pdf)
- United Nations  
<http://www.un-influenza.org/>
- UN World Tourism Organization  
<http://www.sos.travel/>
- US Centers for Disease Control and Prevention  
<http://www.cdc.gov/>
- International Air Transport Association  
<http://www.iata.org/index.htm>
- Airports Council International  
[http://www.airports.org/cda/aci\\_common/display/main/aci\\_content07.jsp?zn=aci&cp=1\\_665\\_2\\_\\_](http://www.airports.org/cda/aci_common/display/main/aci_content07.jsp?zn=aci&cp=1_665_2__)

# Preparedness planning and the aviation sector

Dr Anthony Evans

Chief, Aviation Medicine Section

International Civil Aviation Organization

Lima/Cuzco  
December 2009

