

# ICAO and prevention of spread of disease

Dr Anthony Evans  
International Civil Aviation Organization  
Montreal

Lima, Peru, April 2009



---

---

---

---

---

---

---

---

## Plan

- Prevention of Spread of disease
  - ICAO actions
  - International Health Regulations
- Transmission of disease on-board aircraft
- First Aid and Medical Kits, Universal Precaution Kit
- Aircraft Disinfection and Disinsection
- Summary

---

---

---

---

---

---

---

---

## 2003: SARS



---

---

---

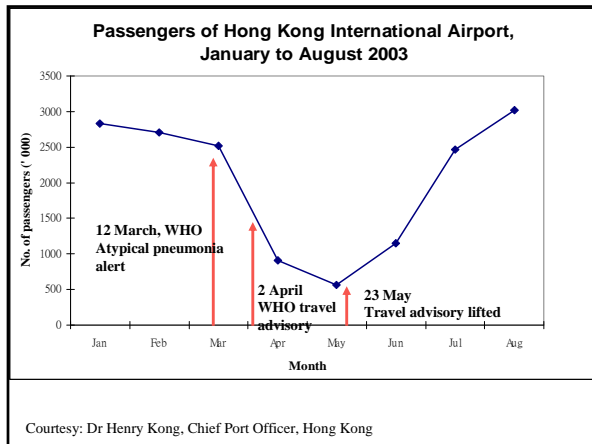
---

---

---

---

---




---

---

---

---

---

---

---

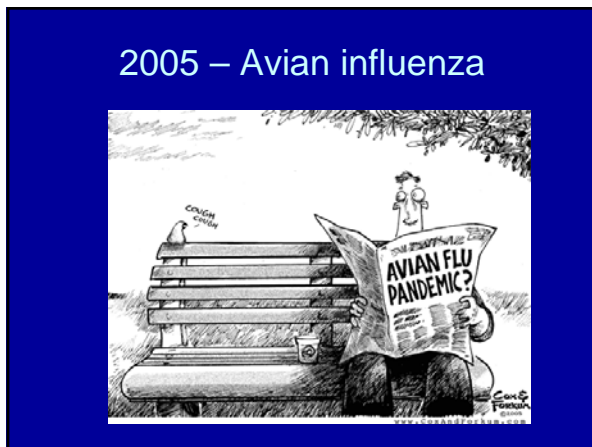
---

---

---

---

---




---

---

---

---

---

---

---

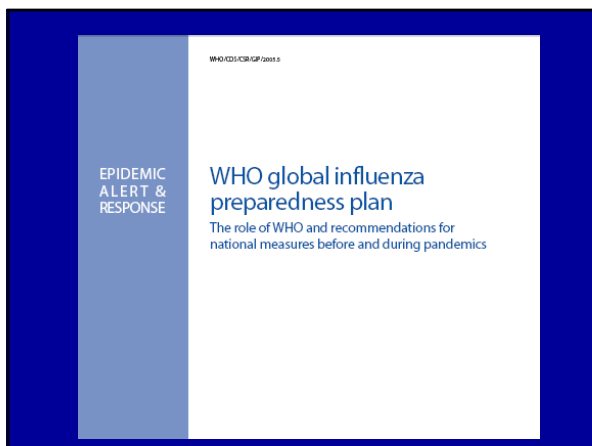
---

---

---

---

---




---

---

---

---

---

---

---

---

---

---

---

---

## 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
- 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

---

---

---

---

---

---

---

---

ICAO Council determined  
action was needed

---

---

---

---

---

---

---

---

## Basis for Action

Article 14, International Convention on Civil Aviation:

**'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....'**



---

---

---

---

---

---

---

---

Singapore Workshop, February 2006



---

---

---

---

---

---

---

---

## Web-based guidance

[http://www.icao.int/icao/en/med/medFAQ\\_en.html#health](http://www.icao.int/icao/en/med/medFAQ_en.html#health)



---

---

---

---

---

---

---

---

## Cooperative Arrangement for Prevention of Spread of Communicable disease by Air travel - CAPSCA

- Three main aims
  1. Populations
    - Mitigate the risk from pandemic
  2. Travellers (passengers and crew)
    - Reduce risk of spread on board aircraft
  3. Commerce
    - Mitigate the financial impact from an outbreak or pandemic
- Training & Airport Evaluations

---

---

---

---

---

---

---

---

## IHR (2005)



- Entered into force June 2007
- Points of Entry
- Routine and contingency measures

---

---

---

---

---

---

---

---

## ICAO SARPs Annex 9 – *Facilitation* (Applicable July '07)

- **'8.16. A Contracting State shall establish a national aviation plan in preparation for an outbreak of a communicable disease posing a public health risk or public health emergency of international concern'**

---

---

---

---

---

---

---

---

## Annex 9 - Facilitation

- Revision of health part of aircraft general declaration

The image shows a portion of a 'HEALTH DECLARATION' form. A red box highlights the section titled 'SUSPECTED OR CONFIRMED CASES OF COMMUNICABLE DISEASE'. This section contains a list of symptoms and conditions that must be reported, including fever, coughing, breathing issues, diarrhea, vomiting, skin rash, bruising, and confusion.

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

---

---

---

---

---

---

---

---

## Annex 9 - Facilitation

- Public Health Passenger Locator Card

The image shows a 'PUBLIC HEALTH PASSENGER LOCATOR CARD' form. It is a structured document with multiple sections for recording passenger information, including name, age, gender, and contact details. The form is designed to facilitate the identification and tracking of passengers in the event of a public health emergency.

---

---

---

---

---

---

---

---

## Annex 9 - Facilitation

- Pilot-in-command to notify ATC as soon as he is aware of a suspected case of communicable disease on board.

---

---

---

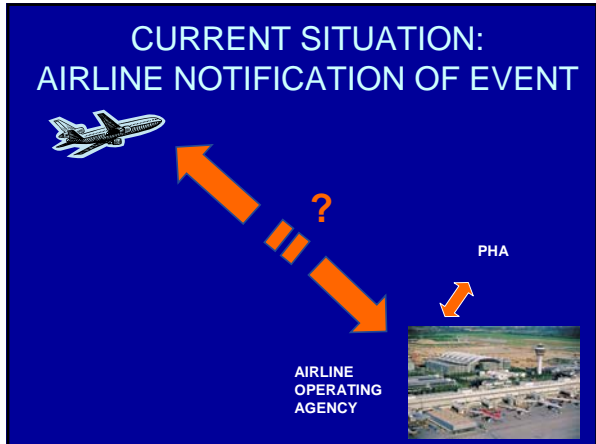
---

---

---

---

---




---

---

---

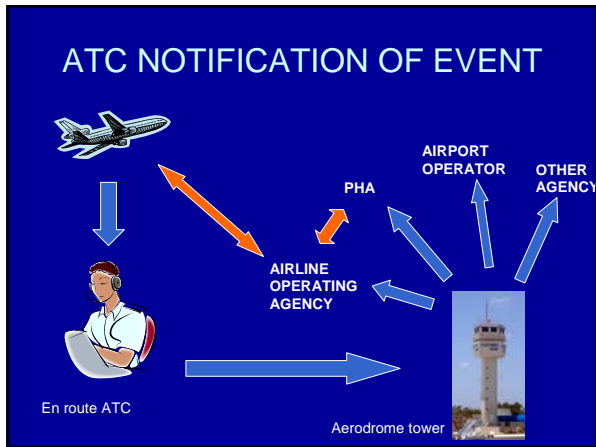
---

---

---

---

---




---

---

---

---

---

---

---

---

### Annex 11 – Air Traffic Services Annex 14 - Aerodromes

- ‘Public Health Emergencies’ to be included in Contingency/Emergency Plans  
– Applicability date 19 November 2009

---

---

---

---

---

---

---

---

Other work: (1) On-board Medical Supplies

Annex 6 – Operations. Applicability, 19 November 2009

- Updated:
  - First Aid Kits
  - Medical Kits
- New
  - ‘Universal Precaution Kit’ (one or two to be carried per aircraft)
  - Protection for cabin crew
  - Equipment to mop up spills
  - Germicidal wipes

---

---

---

---

---

---

---

---

Other work: (2)  
Aircraft disinsection, with WHO



- Review of methods
- Non-chemical



---

---

---

---

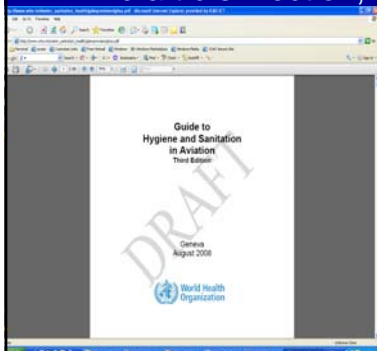
---

---

---

---

Other work: (3)  
Aircraft disinfection, with WHO



- Revision of:
  - WHO Guide to Hygiene and Sanitation in Aviation

---

---

---

---

---

---

---

---

## Summary

- ICAO's role
  - Convention on International Civil Aviation
- Web-based guidance
- CAPSCA project
- ICAO Standards
- Other work
  - On-board medical supplies; disinsection; disinfection

---

---

---

---

---

---

---

---



---

---

---

---

---

---

---

---

## ICAO and prevention of spread of disease

Dr Anthony Evans  
International Civil Aviation Organization  
Montreal

Lima, Peru, April 2009



---

---

---

---

---

---

---

---

Possible date for the diary....

***Research on the Transmission of Disease in  
Airports and on Aircraft: A Symposium***

Transportation Research Board  
of The National Academies

**17-18 September 2009, Washington (tentative)**

- **Understanding How Disease Is Transmitted via Air Travel**
- **Respiratory Diseases** (SARS, TB case studies, airflow modelling)
- **Blood Borne Diseases** (Universal precautions)
- **Gastrointestinal Diseases** (Norovirus investigation, infection control techniques)
- **Vector Borne Diseases** (airport malaria)
- **Discussion of Future Research Needs**

---

---

---

---

---

---

---

---