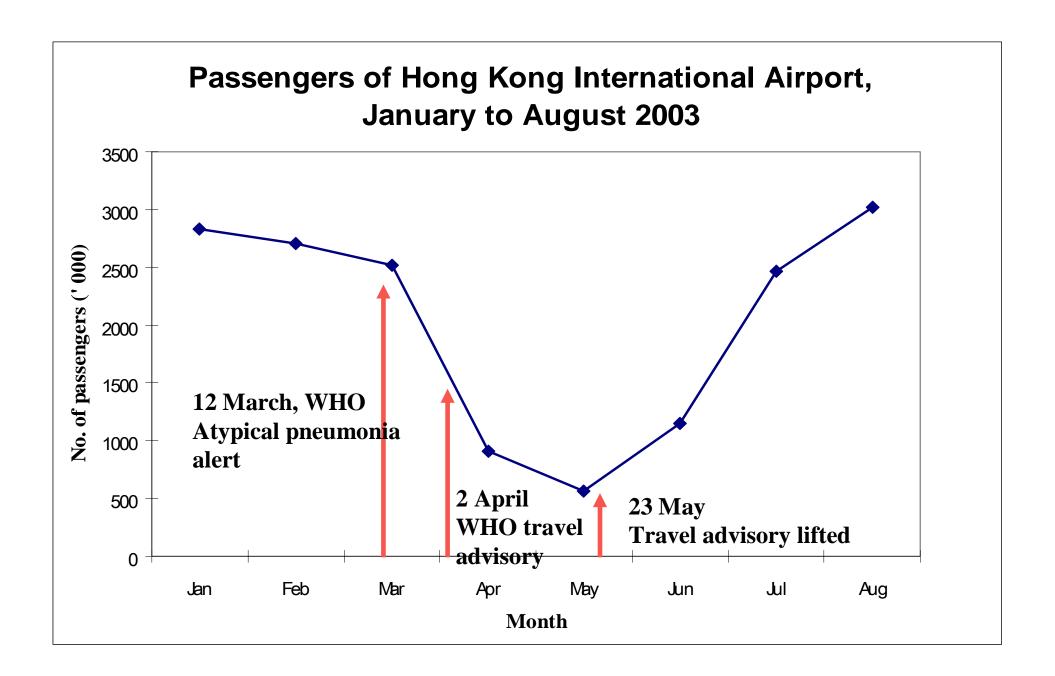
## ICAO and prevention of spread of disease

Dr Anthony Evans
International Civil Aviation Organization
Montreal



#### 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



Courtesy: Dr Henry Kong, Chief Port Officer, Hong Kong

WHO/CD5/CSR/GIP/2005.5

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
- 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....'

Doc 7300/9



Convention on International Civil Aviation

Convention relative à l'aviation civile internationale

Convenio sobre Aviación Civil Internacional

Конвенция о международной гражданской авиации

This document supersedes Doc 7300/8. Le présent document annule et remplace le Doc 7300/8. Este documento remplaze el Doc 7300/8. Hobrosium gonyment заменяет Doc 7300/8.

Ninth Edition - Neuvième edition - Novena edición - Издание девятое - 200

International Civil Aviation Organization Organisation de l'aviation civile internationale Organización de Aviación Civil Internacional Международная организация гражданской авиации

#### Web-based guidance

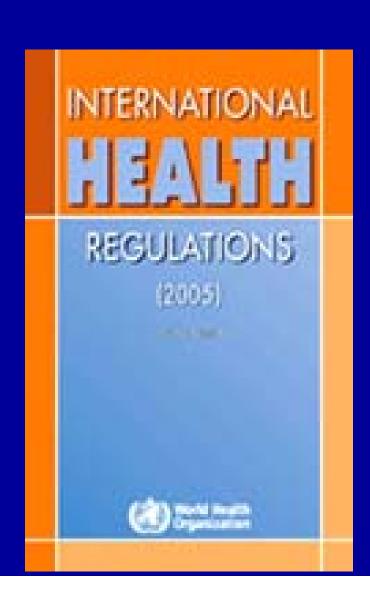
http://www.icao.int/icao/en/med/medFAQ\_en.html#health



### 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)



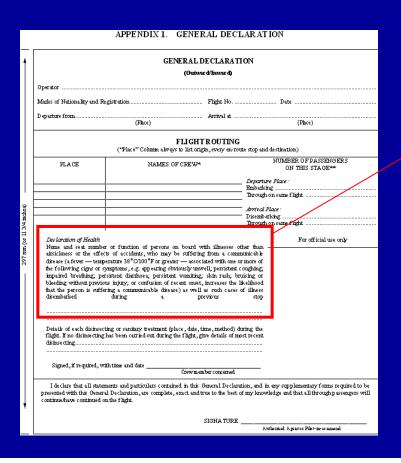
- Entered into force June 2007
- Points of Entry
- Routine and contingency measures

# 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



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

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| b. Telephor    | ne Number                            |                                |   |  |  |
| Family Name    |                                      |                                | Given Name(s)                           |  |  |
| a. Name        | de the name of a ci                  | ose personal contact or a work | contact. This must NOT be you.          |  |  |
| i. Contact inf | formation for the                    | person who will best know v    | where you are for the next 31 days, i   | in case of emergency or to provide critical health information to you.     |  |
| Country        |                                      |                                | ZIP/Postal Code                         | Telephone Number (including country code) or mobile phone number           |  |
|                |                                      |                                | TTTT TTT.                               |  |  |
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| Contact Info   |                                      | and any of the second          | d during many atom or Madelline         | s above some call above and initial address                                |  |
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| ersonal in     | formation                            |                                |   |  |  |
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| light Infor    | metion                               |                                |   |  |  |
| pplicable lav  | engers who may<br>v and will be user | d only for public health purp  | oses.                                   | collected will be held by the public health authorities in accordance with |  |
|                |                                      |                                |   | h authorities to manage the public health event by enabling them           |  |
|                |                                      |                                |   | eaith Organization or when public health authorities suspect the           |  |

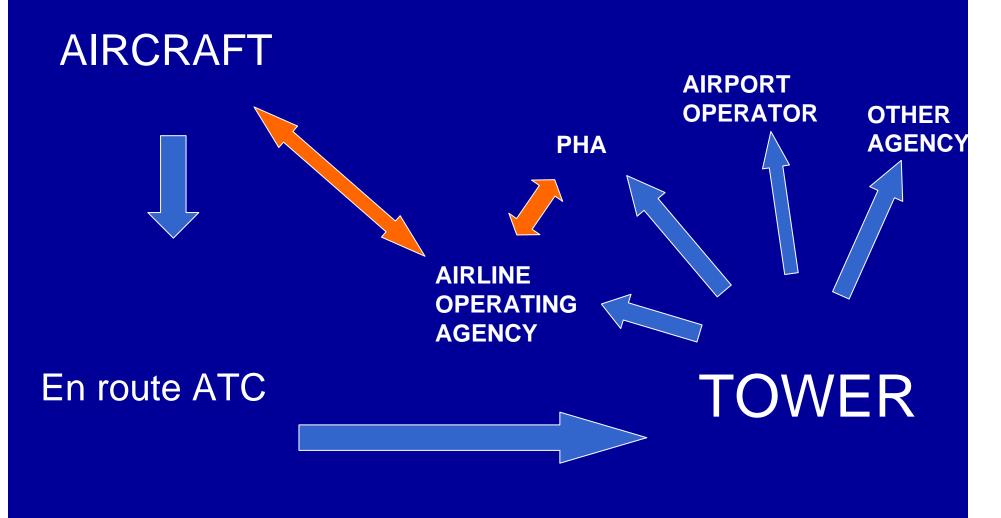
#### Annex 9 - Facilitation

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

### CURRENT SITUATION: AIRLINE NOTIFICATION OF EVENT



#### ATC NOTIFICATION OF EVENT



Aerodrome tower

### 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

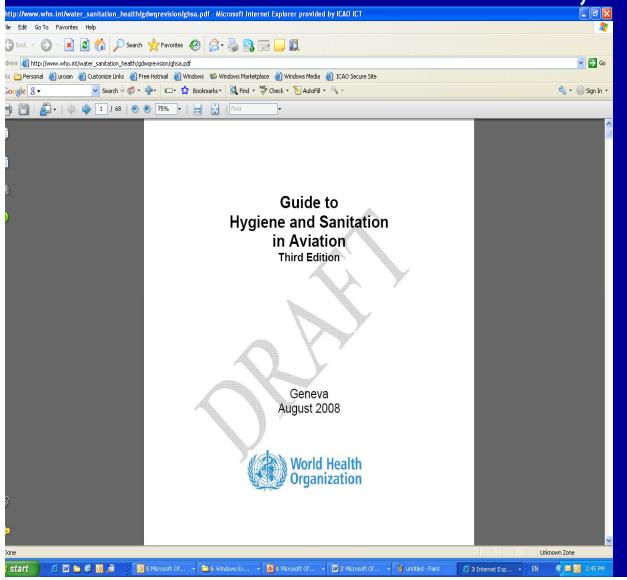
### Other work: (2) Aircraft disinsection, with WHO



- Review of methods
- Non-chemical

Photographs courtesy of WHO

# Other work: (3) Aircraft disinfection, with WHO



- Revision of:
  - WHO Guide toHygiene andSanitation inAviation

### Summary

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

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#### s kill 4 mesia

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the health worker wrings the neck of a chicken during a culling operation at Potiram village in vion of a body st Bengal district yesterday after a fresh outbreak of bird flu was confirmed.

### Don't forget bird flu

New outbreaks raise pandemic fears again

LOS ANGELES - The de and tens of poultry in Hong Kong for the Health Organization. A 16-year- H5N1 virus was first seen to then saw Newell take

new outbreaks. In that same period, four new human cases in an estimate virus, bird flu, has resurfaced in were reported to the World

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DAVID

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And in Septemb U.S. special force Joseph Newell was charges of murder

he case revolu incident in Marel trol stopped two Afghan men, wor fter se Afghan and weapors, the Gr asked if any of the had ellphones. On rward and turn

**Montreal** Gazette: January 2009

## ICAO and prevention of spread of disease

Dr Anthony Evans
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#### 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

- 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