Pandemic Preparedness Planning in Aviation

Dr Anthony Evans
Chief, Aviation Medicine Section
Plan

• SARS
• Avian flu
• Issues for aviation
• ICAO response
• WHO involvement
• Next steps
• CAA involvement/Role of Chief Medical Officers
• Summary
Passengers of Hong Kong International Airport, January to August 2003

No. of passengers ('000)

Month

12 March, WHO Atypical pneumonia alert

2 April WHO travel advisory

23 May Travel advisory lifted

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

• **Health**
  – Population Risk (pandemic)
  – Health risk to individual travellers (pax + crew)

• **Safety**
  – Reduction in availability of key workers
  – Estimate 35% for 10 Weeks

• **Continuity**
  – Disruption to air services
  – Recovery after event
Article 14 (population health risk)

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**, and to that end contracting States will keep in close consultation with the agencies concerned with international regulations relating to sanitary measures applicable to aircraft. Such consultation shall be without prejudice to the application of any existing international convention on this subject to which the contracting States may be parties.
Assembly Resolution A35-12 (health risk to travellers)

...the protection of the health of passengers and crews on international flights is an integral element of safe air travel and that conditions should be in place to ensure its preservation in a timely and cost-effective manner.
ICAO Response

- Development of Guidelines
- Development of SARPs (Annex 9)
- Assess implementation of preparedness plans at airports (CAPSCA)
  - Cooperative Arrangement for Preventing the Spread of Communicable Disease through Air Travel
- To come:
  - Integration of pandemic preparedness plans into air traffic (Annex 11) and aerodrome (Annex 14) emergency plans
Development of Guidelines/SARPs

- February 2006 – Singapore meeting
  - Funded by Singapore, China, Thailand
  - Coordinating WG established
    • WHO, ACI, IATA, US CDC + other experts
- Other participating organizations
  • FAA, ECAC
- November 2006 - guidelines posted ICAO website
- July 2007 – New Annex 9 SARPs applicable
Web-based guidance

- WHO global Preparedness
- ICAO state guidelines
- Airports Council International Airport guidelines
- International Air Transport Association Airline guidelines
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.
Revised aircraft general declaration (Appendix 1 to Annex 9)

• List of signs and symptoms for suspected communicable disease updated

A communicable disease is suspected when a traveller (passenger or a crewmember) has a fever (temperature 38°C/100°F or greater) associated with one or more of the following signs or symptoms:

– Appearing obviously unwell
– Persistent coughing
– Impaired breathing
– Persistent diarrhea
– Persistent vomiting
– Skin rash
– Bruising or bleeding without previous injury
– Confusion of recent onset
### GENERAL DECLARATION

**Operator**

**Marks of Nationality and Registration**

**Flight No.**

**Date**

**Departure from**

**Arrival at**

### FLIGHT ROUTING

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

<table>
<thead>
<tr>
<th>PLACE</th>
<th>NAMES OF CREW*</th>
<th>NUMBER OF PASSENGERS ON THIS STAGE***</th>
</tr>
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<tbody>
<tr>
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<td></td>
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</table>

**Departure Place:**

**Embarking**

Through on same flight

**Arrival Place:**

**Dismbarking**

Through on same flight

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**Declaration of Health**

Name and seat number or function of persons on board with illness other than sickness 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 diarrhea; 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.

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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 to have continued on the flight.

**SIGNATURE**

[Authority, Agent, or Airliner]
Inclusion of Public Health Passenger Locator Card
(Appendix 13 to Annex 9)

- For use by public health authorities
- Assist in tracing passengers who may have been exposed to communicable disease
APPENDIX 13. PUBLIC HEALTH PASSENGER LOCATOR CARD

**PUBLIC HEALTH PASSENGER LOCATOR CARD**

Public Health Passenger Locator Card to be completed when public health authorities suspect the presence of a communicable disease. The information you provide will assist the public health authorities in managing the public health while enabling them to notify passengers who may have been exposed to communicable disease. The information is intended to be held by the public health authorities in accordance with applicable laws and to be used only for public health purposes.

### Flight Information
- **1. Airline and Flight Number:**
- **2. Date of arrival:**
- **3. Seat Number:**

### Personal Information
- **4. Name:**
- **Family Name:**
- **Given Name(s):**
- **Your Current Home Address (Including city):**
- **State/Province:**
- **City:**
- **Street Name and Number:**
- **Country:**
- **Country Code:**
- **ZIP Post Code:**
- **Telephone Number:**
- **Fax Number:**
- **E-mail Address:**
- **Passport or Travel Document Number:**
- **Issuing Country/Organization:**

### Contact Information
- **5. Address and phone number where you can be contacted during your stay:**
- **Street Name and Number:**
- **City:**
- **State/Province:**
- **Country:**
- **ZIP Post Code:**
- **Telephone Number:**

### Additional Information
- **6. Contact information for the person responsible for your care:**
- **Family Name:**
- **Given Name(s):**
- **Telephone Number:**
- **Fax Number:**
- **E-mail Address:**
- **Address:**
- **City:**
- **State/Province:**
- **Country:**
- **ZIP Post Code:**

### Public Health Information
- **1. Are you returning from anyone who has had close contact with a person infected with COVID-19 in the past 14 days?**
- **Yes/No:**
- **Name of Individual(s):**
- **Relationship:**
- **Phone Number:**

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Vendor: Adobe

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**Note:** Fill out this form carefully and completely. This information is confidential and will only be used for public health purposes.
Pilots to notify ATC

- PHAs not informed/informed late of case of communicable disease
- Currently rely on company representative at destination
- New procedure via ATC
  - Relatively simple
  - More reliable
  - Provides more time for PHA
  - Identical procedure can apply globally
- Promulgated by ICAO State Letter (AN 5/22-07/55, 20 July 2007)
To assess Implementation of Guidelines in Asia: CAPSCA - Asia

- September 2006: CAPSCA-Asia established
  - OTJ training carried out
  - Aug ‘07: 1st Steering Committee Meeting
    Hong Kong
  - Oct ‘07: 1st regional aviation medicine team meeting, Bangkok
  - To date – 8 international airports evaluated in Asia
States that have joined CAPSCA so far

- People’s Republic of China (China, P.R.)
- Special Administrative Regions of Hong Kong and Macao of China, P.R.
- Thailand
- Indonesia
- Malaysia
- Nepal
- Philippines
- Singapore
- Thailand
To assess Implementation of Guidelines in Africa
CAPSCA - Africa

• November 2007
  – Initial seminar: Gabon
• March 2008: Workshops
  – Johannesburg, Dakar
• October 2008
  – 1\textsuperscript{st} SCM (TBC)
Funding to date

• Contracting States in Asia
• 2 UN grants
  – Central Fund For Influenza Action
  – Administered by UN Development Programme
• Allocation from ICAO Council for C/MED T & S (2005-2007)
WHO involvement
IHR (2005)
http://www.who.int/csr/ihr/en/

• Applicable June 2007
• Not specific to any disease (previously yellow fever, plague, cholera)
• Many references to ‘Points of Entry’
  – Airports
  – Sea ports
  – Ground crossings
Cooperation with other agencies

- IHR, Article 20
  - WHO may **certify** an airport meets the IHR requirements
  - ‘WHO, in collaboration with competent intergovernmental organizations and international bodies, shall develop and publish the certification guidelines for airports….’
Next steps

• Develop cooperation with WHO
• Consider safety risks
• Develop into global project
Air Traffic Services
Aerodrome Operators

• Emergency plan.
• Sudden reduction (e.g. 35% x 10 weeks) of staff due to:
  – illness or obligations to look after children (because schools are closed)
  – fear of attending the workplace
• Potential lack of IT support
Involve regions outside Asia/Africa
Aim – global harmonization

- South America
- Middle East
- Europe
- North America
CAA Involvement

• Chief Medical Officers
  – Ideal position to coordinate aviation and public health response
• Consider pandemic preparedness when discussion emergency planning
• Discuss pandemic issues with PHAs and other stakeholders e.g. airline & airport operators
Main challenge

• Establish cross-organizational collaboration between CAAs, public health authorities, airports and airlines
Summary

- Health issues are relevant to regulatory authorities.
- Regulatory authorities are not sufficiently engaged at present.
  - CMOs have a role to play.
- Cross-organizational involvement is a challenge.
- Global harmonization is the goal.
“Prepare for the worst but hope for the best”

Benjamin Disraeli, British prime minister and novelist
(1804 - 1881)
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