

# "The IHRs and airport preparedness for infectious disease pandemics"

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## International Health Regulation - Purposes and Scope-



 The purpose and scope of these Regulations are to prevent, protect against, control and provide a public health response to the international spread of disease in ways that are commensurate with and restricted to public health risks, and which avoid unnecessary interference with international traffic and trade



## Goal of Airports:

•Keep the Airport running.....



## Goal of Public Health Services:

## Keep the Pandemic outside



B A R R Ξ R





(somewhere

worldwide)

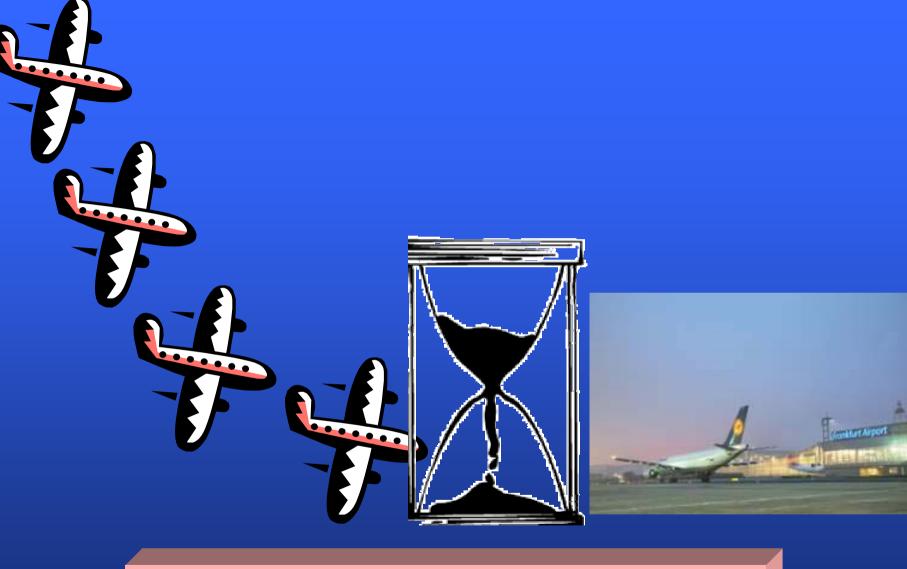


**Entry Screening** 



Screening

(Exit Airport)



Landings within of 60 seconds!



#### The next Medical Disaster

Medical Impact **Economical Impact** 

#### **Triggered**

- Politicians
- Media
- Public Health Services
- WHO
- (board members, employees.....)





Deserted Airports
Passenger volume plunged



## What does this show?

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The vulnerability of....

the aviation sector
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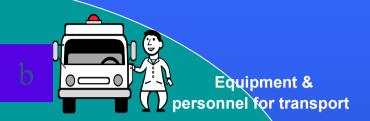
and its impact on States



#### Capacity at P.o.E at all times



**Medical service, staff** & equipment







Trained staff and programme for vector control





Organizat

Trained personnel for inspection of conveyances



ensure safe environment, water, catering facilities, wash rooms, disposal services & inspection programmes

### Capacity at P.o.E during P.H.E.I.C.



Emergency resp. plan, coordinator, contact points for relevant PoE, PH & other agencies Provide PH assessment & care for affected travellers, animals, goods by establishing arrangements with medical, veterinary facilities for isolation, treatment & other services

Provide space, separate from other travellers to interview suspect or affected persons

**Organizat** 



Provide access to required equipment, personnel with protection gear for transfer of travellers with infection/contamination

To apply entry/exist control for departing & arriving passengers

Provide for assessment, quarantine of suspect or affected travellers

To apply recommende measures, disinsect, disinfect, decontaminate, baggage, cargo, containers, conveyances, goods, postal parcels etc

#### **Guidelines**



→ (EAGOSH)

#### Legal responsibility and consequences

Public Health Service



**Airports** 

#### Public Health Service

#### **Airport closure**



1 minute 6088 €

1 hour 365.280 €

24 hours 8.766.720 €

Airlines: (?)

## WHO (IHR 2005)

Entry Screening Exit Screening

see HKG

Color Coding
(highly
recommended)

#### Goa

→ cooperation Public Health Services

→ cooperation WHO (IHR 2005)

→ take the <u>leadership</u>

→....we know the process (!)

implement color coding

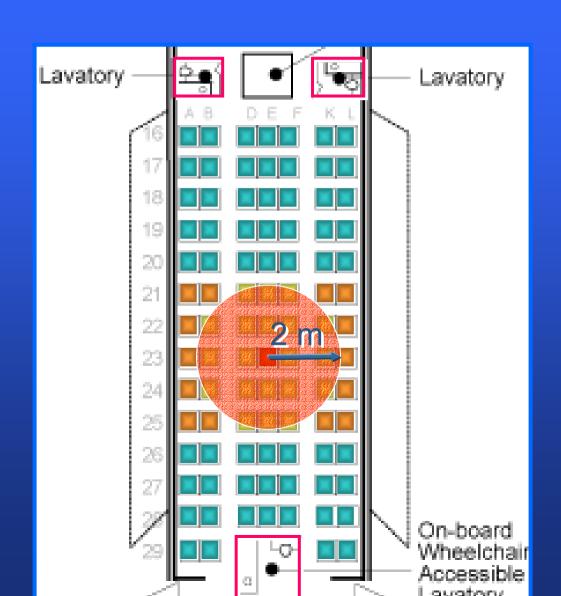
## Colorcoding

- √simple (KISS \*)
- √cost effectiv
- √being tested in HKG

<sup>\*</sup> Keep it super simple

## Entry-Screening

## Contact Patient in the aircraft (Contact/Index Patient)





## Procedure with 4 color coding in Hong Kong (SARS)

Four busses for the different categories

- ➤ Red (Index)
- ➤ Orange (close contact)
- ➤ Yellow (social contact)
- ➤ Green (ok)



## Entry-Screening(Draft)

- At the Apron before leaving the aircraft (inside the aircraft)
  - Personnel will check the passengers in every aircraft coming from affected or suspicious areas (medical staff and border police)
  - Subsequent Color Coding
- Subject to Coding\*
  - Pax is transmitted to designated medical services
  - Pax obtain medical information, further advices from the medical services or precepts
  - Pax proceed traveling (after obtaining personal data)

\* Will be done inside the aircraft before deboarding

#### Colour coding of Patients/Contacts

- Red: Index patient
- Yellow: close contacts, i.e. family members, passengers sitting 2 rows around the sick passenger and crew member(s) taking care of the sick passenger
  - They might have been infected by the sick passenger but are unlikely to be infectious at that stage
- Green: passengers and crew members w/o close contact to the index case
  - They would be given health education and information for contact tracing would be obtained from them in case they need to be put under active surveillance



## Possible Procedures (Entry and Exit Screening)

Thermo scanning and manual scanning In Hong Kong and Singapore for Entry and (!) Exit Passengers:
Additional 2 employees per gate (!!).
Temperature scanning also daily for Employees working at the airport.

(pictures being taken during the SARS program)





#### Step 1

If Thermoscan is positive (37,5 degree C) Go to......

#### Step 2

Retesting 15min./30 min. under supervision If positive (38,0 degree C)

Go to......

#### Step 3

Medical examination at the airport

Inside the Terminal Close to the first "control area"

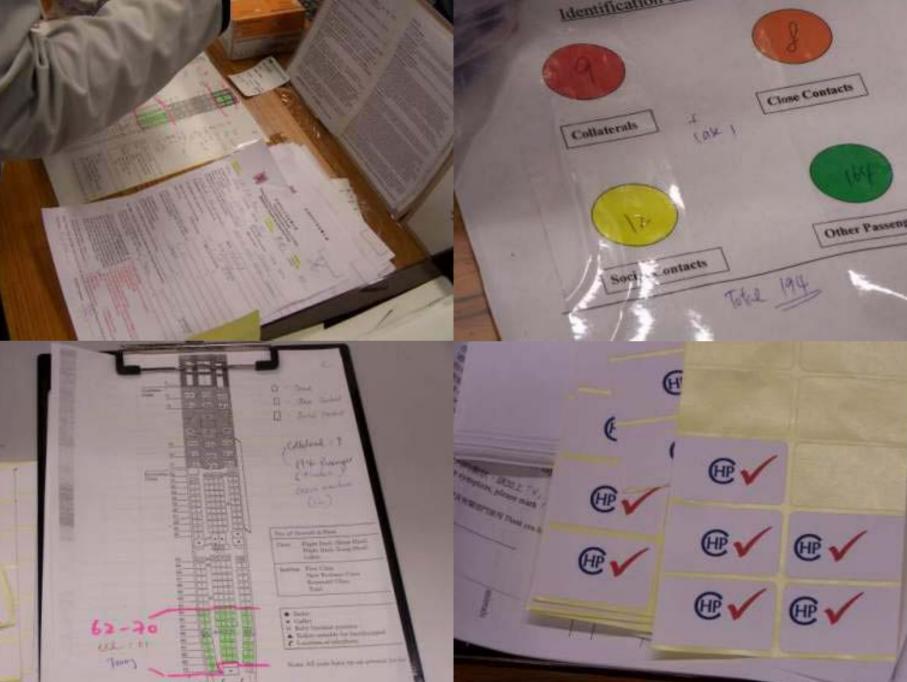


#### Hygiene measurements (Hongkong Airport)

At each elevator information about

- proper hygiene and
- space for waste
- Desinfection gel for self service







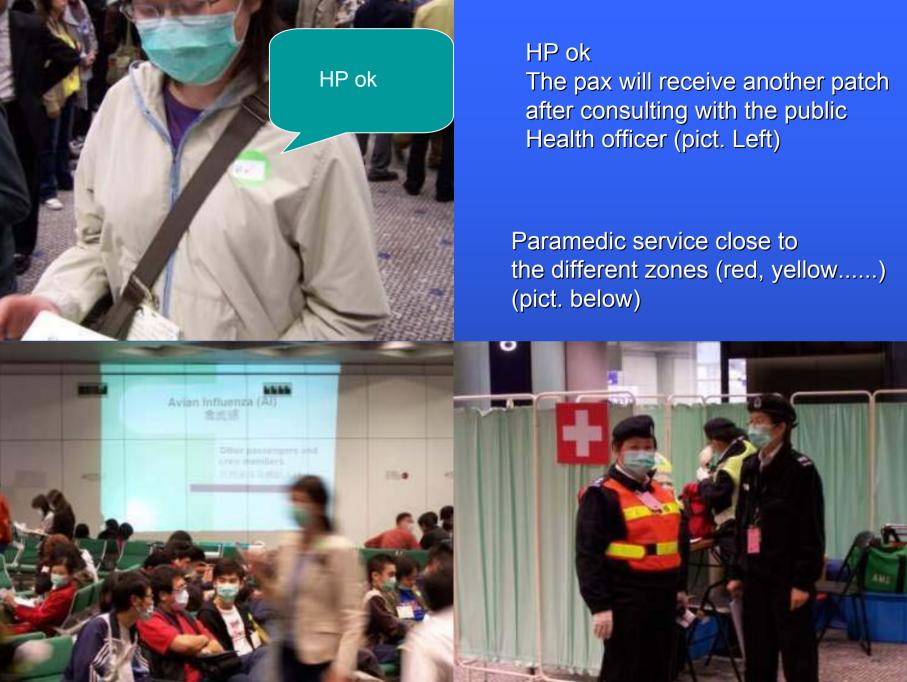




Passengers do get informed by a medical expert and (!) a PowerPoint presentation with information runs alway in the background.

After filling out the public health declaration (PHD) the passengers will see the public health officer.





## Exit-Screening

## Exit-Screening (Draft)

- At the Terminal before check-in (before entering the Building or within the building)
  - Medical inspection/examination
  - Questionnaire
  - Temperature-Scanning
  - **>** ....
- In case of negative screening results:
  - Coding for check-in (inside the building in designated area, see Hongkong)
- In case of positive\* screening results:
  - Coding for medical services (nearby)
  - \* Escorted by police or security staff

## International Health Regulation (IHR 2005)

#### **Questions to be answered**

- >Are you aware of IHR
- >Legal Responsibility
- > Designated Airports
- >Trained Staff
- **Equipment**
- >Training/Drill
- >Tool Box

#### **To Do List**

- > Procedures
- > Checklists
- >Entry Screening
- >Exit Screening
- **▶ Communication (national/int.)**
- >int. Network (ICAO,IATA)
- Modify present Emergency Pla
- > Take over the "Leadership"

Support: ACI World; dgamper@aci.aero Fraport AG: w.gaber@fraport.de



#### Our Service:

- √ White Paper "pandemic "for airports
- ✓ Draft Pandemic Plan (Catalogue of Measures for highly infectious diseases
- ✓ German Pandemic Plan (procedures at Frankfurt Airport
- ✓ Emergency Procedures (defense against infectious diseases)
- ✓ Flowchart for high inf. diseases
- ✓ CAPSCA 1st Steering Committee Meeting
- √ Summary CAPSCA meeting Hongkong
- √e.g.















http://www.who.int/en/

http://www.iata.org/index.htm

http://www.icao.int/

http://www.ecac-ceac.org/

http://europa.eu/index\_de.htm

http://www.cdc.gov/

http://www.ecdc.eu.int/

### Acknowledgment

Public Health Service HKG
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HKG Airport Authority
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## Let's work together.....



