



# ATC Procedures & Safety Precautions for Communicable Diseases

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# Introduction



- This presentation is about the way ATC handles an aircraft which declared medical emergency .
- How to reach best practice ,by using ( ICAO SARPs ,checklists ) .
- How to reach acceptable level of safety . by coordinating and communicating with other agencies , training ,exercising ,evaluation ,full scale exercise and implementation of emergency plan ,developing precautions ,audits , analysis.
- how to prevent the potential spread of communicable disease.

# Information reported by cabin crew to handling ATC in case of suspected communicable disease



- Aircraft identification
- Departure airport
- Destination airport
- Estimated time of arrival
- Number of persons on board
- Number of suspected cases(s) on board
- Nature of the public health risk, if known

ICAO document 4444, Procedures for Air Navigation Services – Air Traffic Management, Ch.16, 16.6.

# Air Traffic Control procedures



- **The ATS unit**, upon receipt of information from a pilot regarding suspected case(s) of communicable disease, or other public health risk, on board the aircraft, shall **forward a message *as soon as possible*** to the ATS unit serving the ***destination/departure***, unless procedures exist to notify the appropriate authority designated by the State, and the aircraft operator or its designated representative.

# Air Traffic Control procedures

(cont.)

- When a report of a suspected case(s) of communicable disease, or other public health risk, on board an aircraft is received by an ATS unit serving the destination/departure, from another ATS unit or from an aircraft or an aircraft operator, the unit concerned shall forward a message as soon as possible to the:

**1- *public health authority* (PHA) or the *appropriate authority*** designated by the State.

**2-*aircraft operator*** or its designated representative,

**3-*aerodrome authority*.**

# ATC Checklist

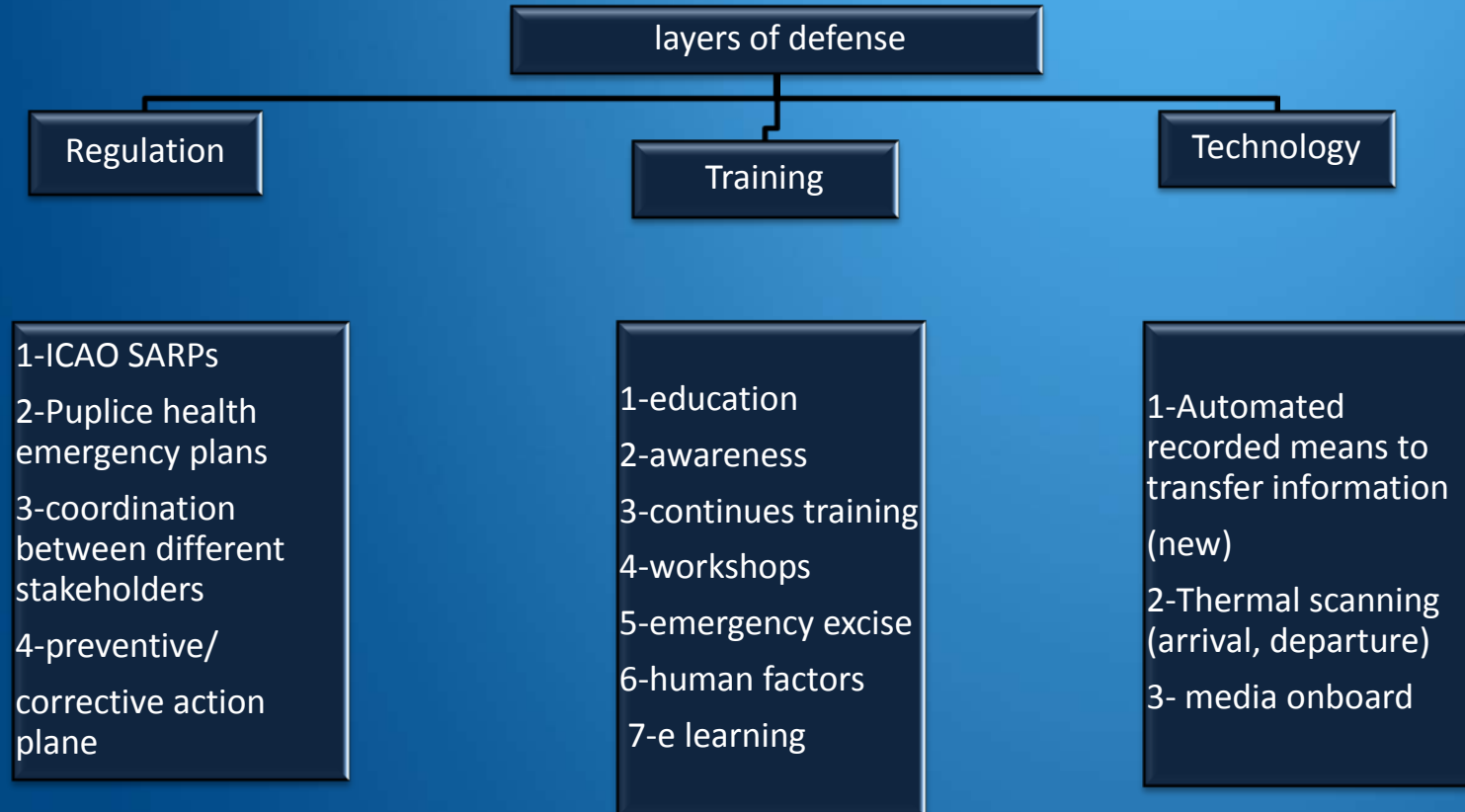


## Proposal for "ATC communicable disease Checklist" (V 1.2)

• ACTION BY ATCO (Cairo TWR)	Yes	NO
1- Give priority to medical emergency ACFT.	<input type="checkbox"/>	<input type="checkbox"/>
2- Coordinate with APP control (Recommended RWY 05C/23C) "nearest RWY to "Designated Area" may change subject traffic or other conditions.	<input type="checkbox"/>	<input type="checkbox"/>
3- Relay information collected by pilot as soon as possible to : a) Airport operator. b) Public health authority. c) Other agency (ies). * With the following form:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
• Aircraft identification	<input type="text"/>	
• Departure airport	<input type="text"/>	
• Destination airport	<input type="text"/>	
• Estimated time of arrival	<input type="text"/>	
• Number of persons on board	<input type="text"/>	
• Number of suspected cases(s) on board	<input type="text"/>	
• Nature of the public health risk, if known	<input type="text"/>	
4- Brief & Inform <i>FOLLOW ME</i> staff to lead ACFT to <u>Designated</u> aircraft stands located in the chart, and to lead vehicles to the ACFT (quarantine ...) .limit other vehicles, prepare ground power, support all persons dealing with this ACFT with PPE.	<input type="checkbox"/>	<input type="checkbox"/>
5- Stay calm& focus .try to manage pilot panic or anger.	<input type="checkbox"/>	<input type="checkbox"/>
6- Monitor developments and advise immediate supervisor as often as required.	<input type="checkbox"/>	<input type="checkbox"/>
7- report to safety office	<input type="checkbox"/>	<input type="checkbox"/>

Muhammed Mostafa Agna  
Safety Representative (D/ANSC)

# Reduction of severity and mitigation (layers of defense)



States evaluate threat and assess risk differently



# Safety precautions



- Use Checklists.
- informing departure aerodrome will prevent the potential spread of communicable disease.
- *ATC communications channels are to be avoided*
- Avoid confusion between isolated area (*bomb threat*), and *public health emergency*.
- ATC may use deferent frequency only for aircraft declared medical emergency ,so as not to transfer panic to other pilots .to maintain best performance from other pilots.
- (*Human factors*) to ensure optimum response by all existing agencies participating in emergency operations.

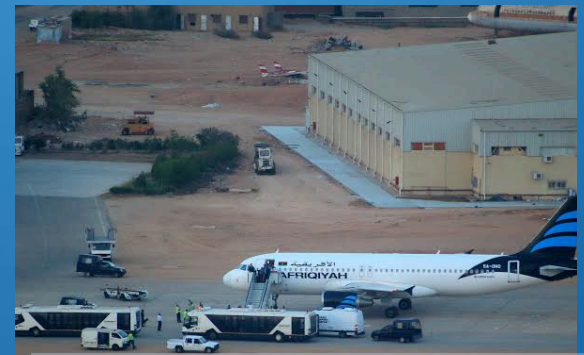
9.1.6(ANNEX 14 Ch. 9 )

# AIRPORT PREPAREDNESS



- The appropriate public health authority, in consultation with airport management, should establish:
- **isolation and quarantine area** (for aircraft and travellers) for aircraft reported having symptoms of a communicable disease that may pose a serious public health risk).
- Note: This procedure already implemented.

2013/capsca-mid3



Isolated area Cairo airport

Destination Airport

23c

مطار القاهرة الدولي

05c

ATC Tower

Isolated Area



Destination Airport

23c

مطار القامح الدولي

05c

ATC Tower

Isolated area



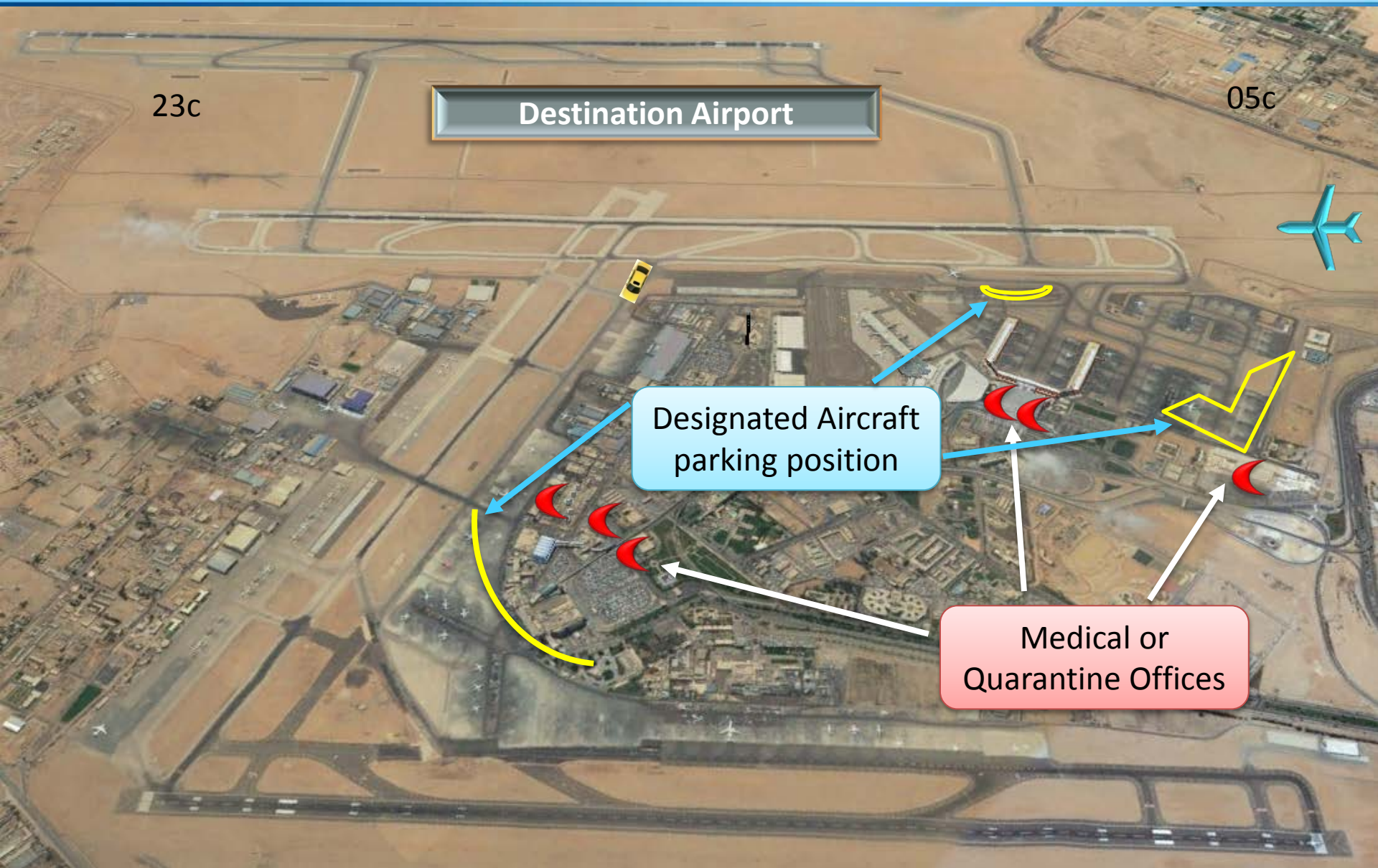
# CAPSCA NEW REQUIREMENTS FOR PARKING POSITION



## Designated Aircraft Parking Position

- Near medical quarantine office. Or,
- Place equipped with medical care and PPE
- Ground power, etc
  
- CAPSCA 2016 disagree with:
- \*Parking ACFT in Isolated area to avoid confusion between different emergency types close to each other, also because it is not equipped for PHE.
- \* Parking PHE ACFT in gates because of difficulty to control passengers after passing the gates and to prevent potential spread of communicable disease.

# Proposal for Designated aircraft parking positions:



Destination Airport

23c

05c

Designated Aircraft parking position

Medical or Quarantine Offices



# How ATC handle medical emergency

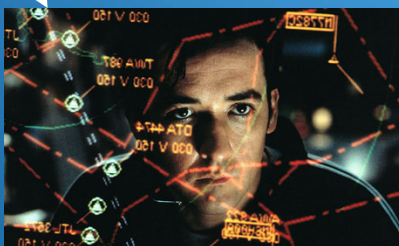


## ICAO Aircraft General Declaration

- Aircraft identification
- Departure airport
- Destination airport
- Estimated time of arrival
- Number of persons on board
- Number of suspected cases(s) on board
- Nature of the public health risk, if known

Aircraft Operator

- Airport operator
- Public health authority
- Other agency(ies)



Air Traffic Controller  
En-route

*Coordinate with destination airport to check the Readiness for PHE.*



Destination/Divert Airport

Departure/ Transit  
Airport TWR ATC





THANK YOU FOR YOUR ATTENTION