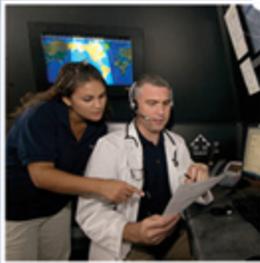


CAPSCA Middle-East Meeting
Cairo, 17 - 20 November 2014



MedAire
An International SOS Company



▶ EXPERT CARE, EVERYWHERE.™

Ground-based Medical Support (GBMS) for Airlines.
An additional link in the system.

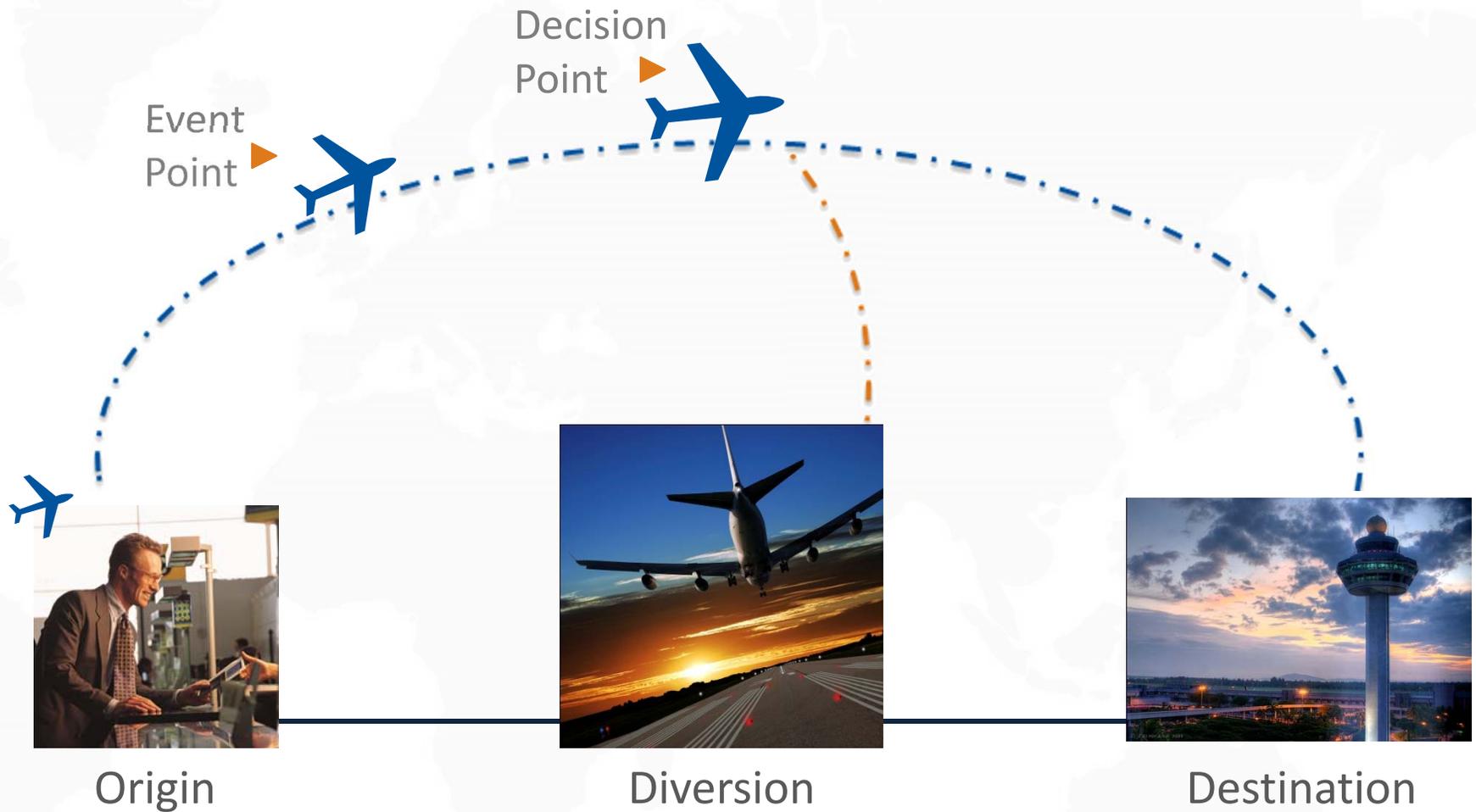
Michael Braid, MD, PhD

www.medaire.com

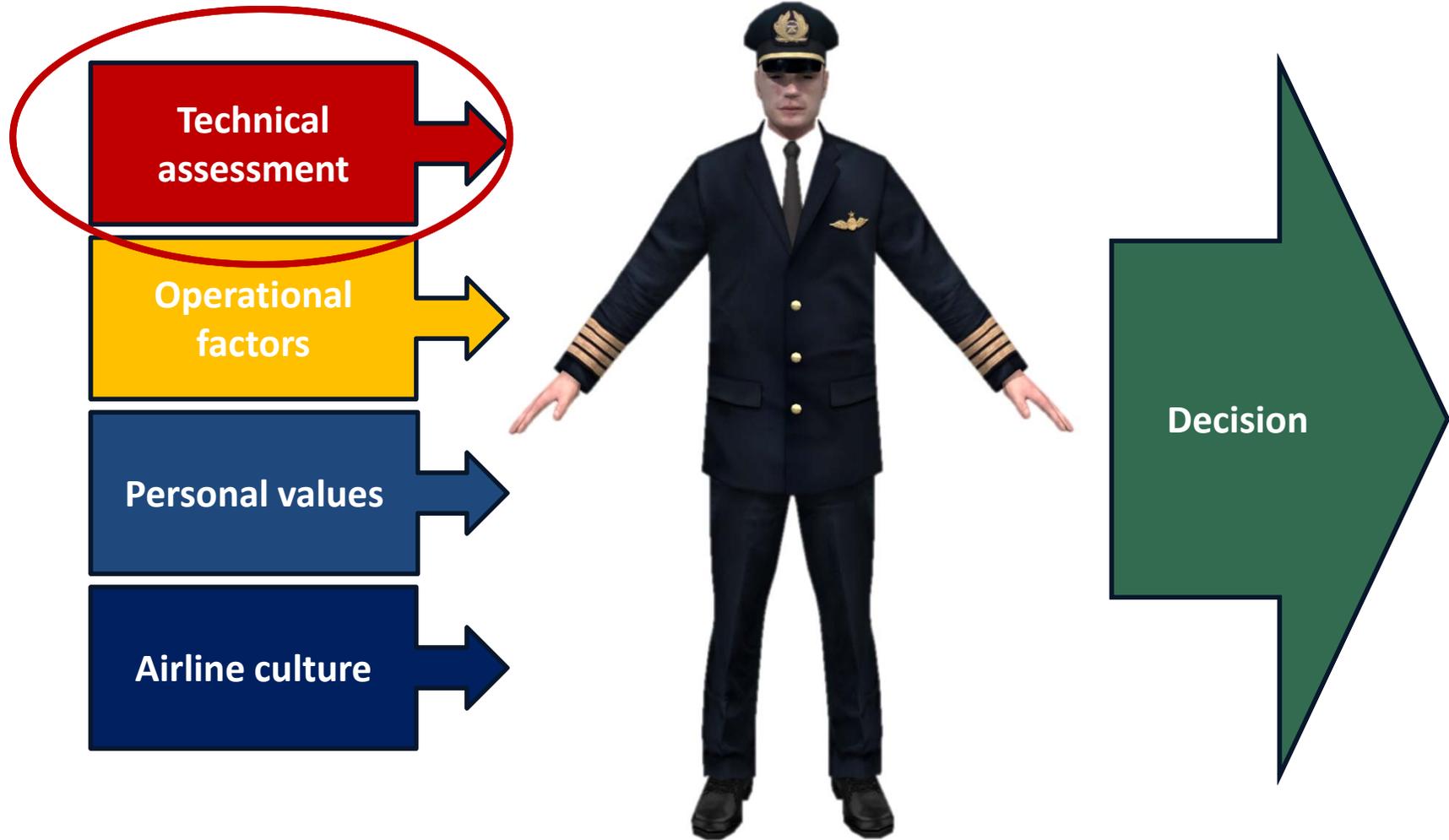
Disclosure

- Michael Braida is a full-time MedAire/International SOS employee
 - MedAire is a medical solution provider for commercial airlines and business aviation
 - Ground-based medical advice, training and medical equipment
 - International SOS is a global health and security assistance company
 - Opinions expressed are personal, not necessarily reflecting MedAire / International SOS positions
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Touching points in commercial aviation



A CRM Perspective



Current scenario

- Ground-based medical support (GBMS): **30+ years**
- **58%-68%** of top 50 airlines in the world^(*) utilize GBMS
- GBMS is a recommended practice by **ICAO - IATA**
- Four types of GBMS:

Fully dedicated solutions

Public services

Partially dedicated solutions

In-house medical departments

^(*) Excluding Chinese carriers and depending whether pax carried or RPKs is considered

Historical Background

- Mayo Clinic
 - Royal Flying Doctors
 - Airline medical departments
 - SAMU France
 - MedAire – 1986
 - Need for a structured approach to in-flight medical events
-

How could GBMS help?

- **Assisting** airlines (crewmembers/gate agents) in identifying cases to be reported to health authorities
 - **Orienting** crewmembers in handling suspect cases to minimize exposure/transmission risks
 - Providing **statistics** to be matched with actual notification figures received by system (ATC / local health authorities)
 - **Educating** crewmembers and traveling public
-

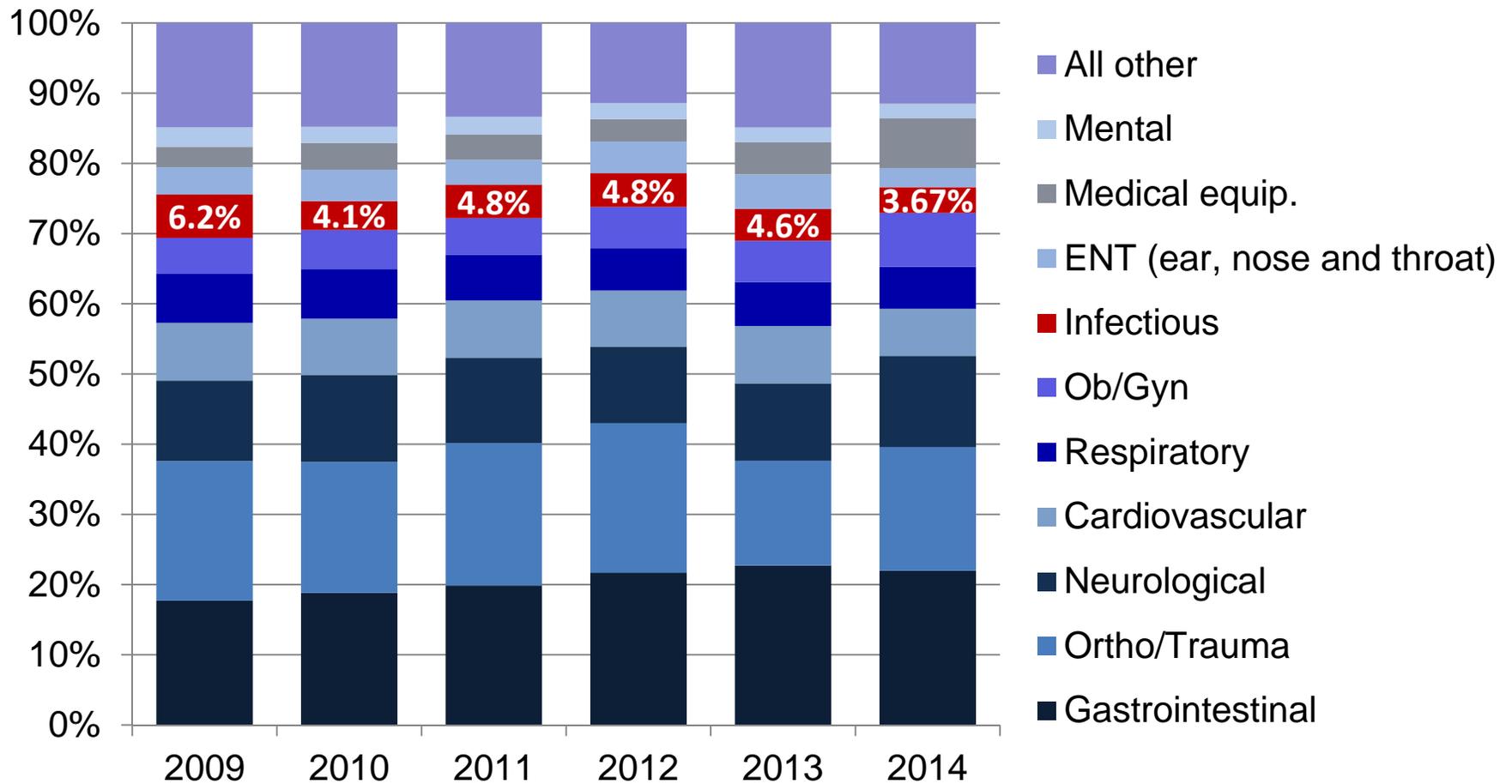
Experience with international public health concerns

- **SARS** – 2003
 - **H1N1** – 2009
 - Deep involvement coordinating with airlines aspects of crew and passenger health
 - Worked closely with the CDC
 - **MERS-CoV** – 2013/2014
 - **EVD** - 2014
 - **GBMS** have at least three touching points during pandemics
 - In-flight cases
 - Pre-flight pax fit-to-fly assessment
 - Crew support cases
-

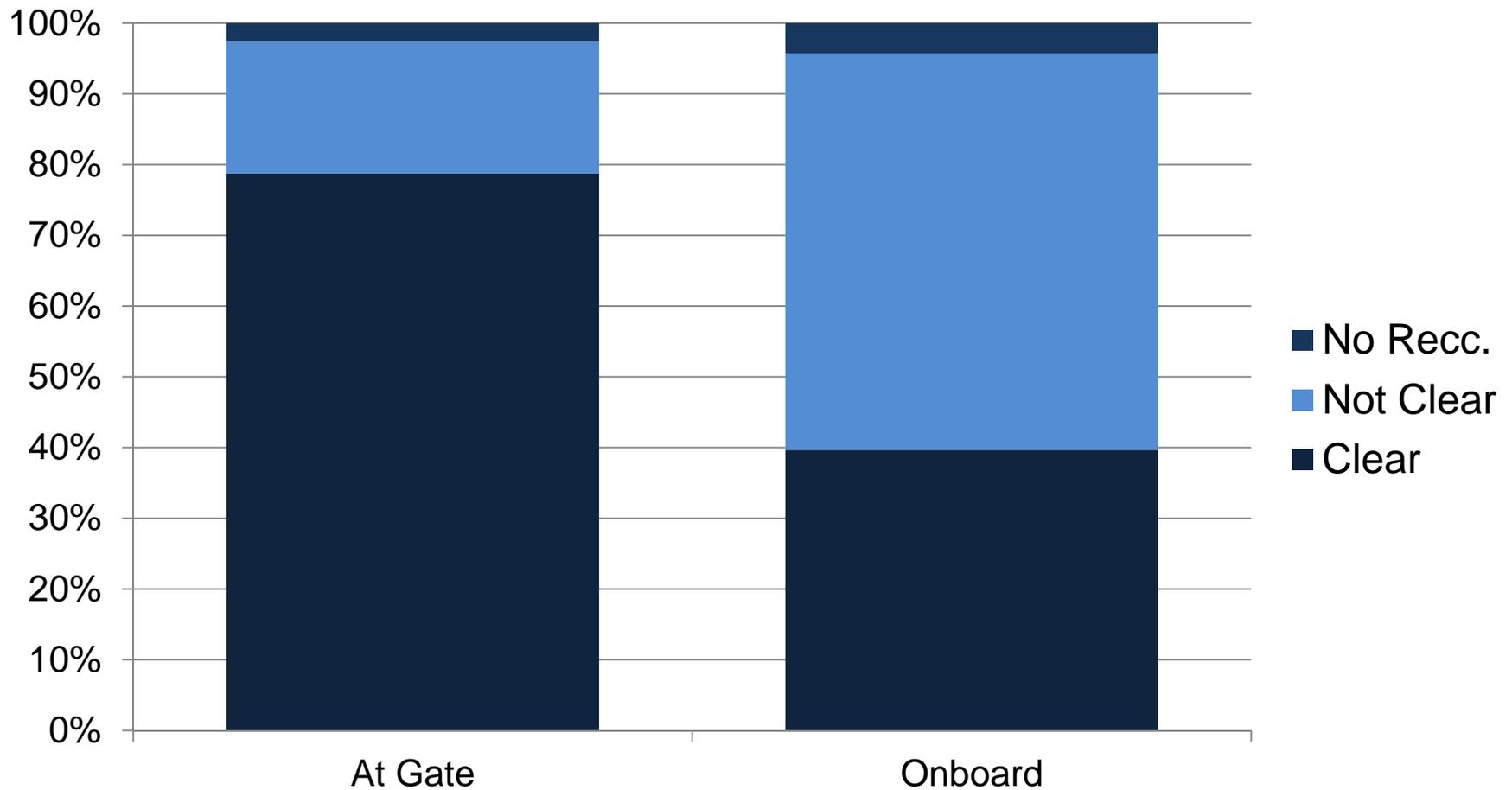
Opportunities for Intervention



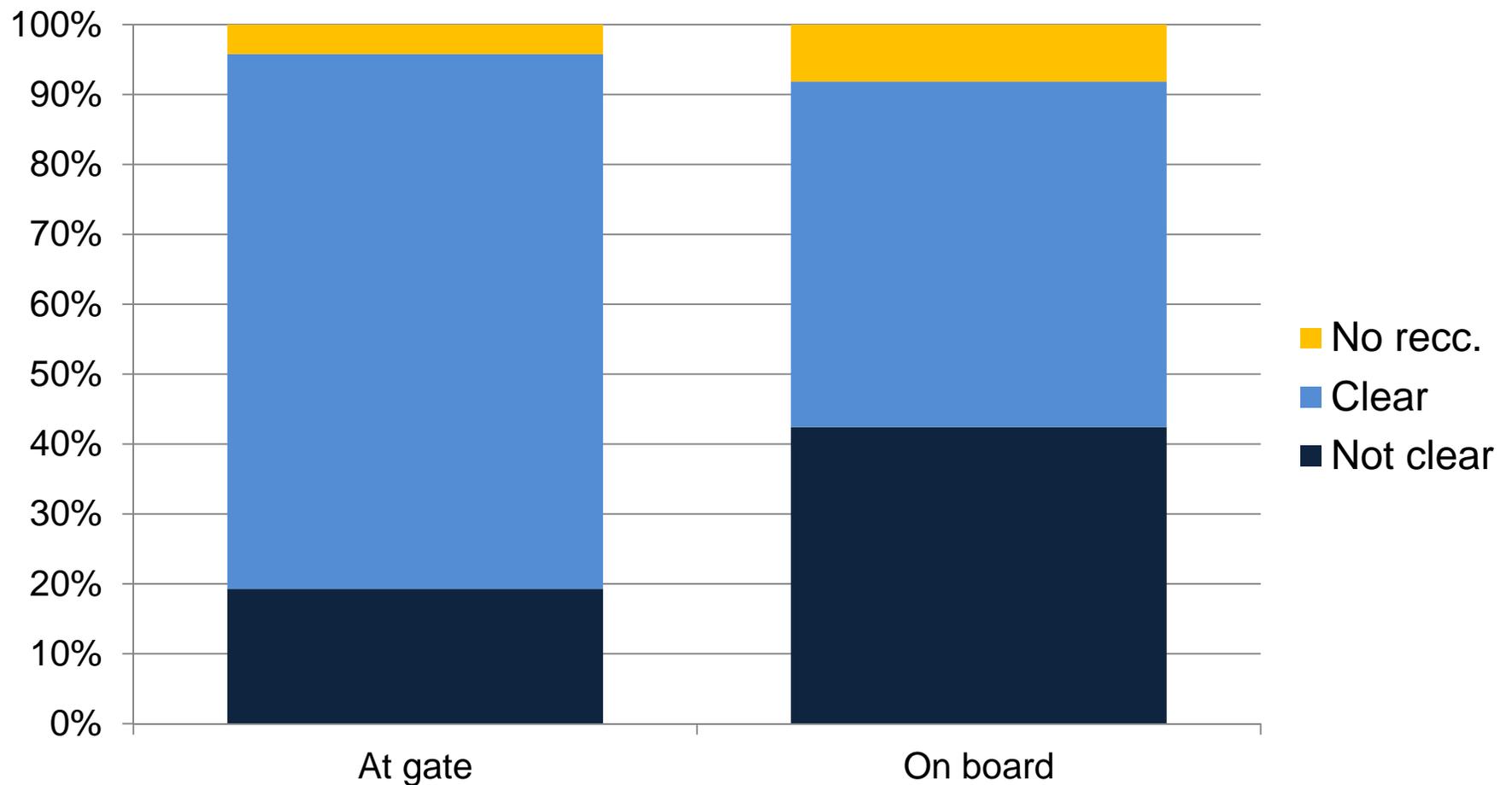
Percentage of CIDs in pre-flight assessments



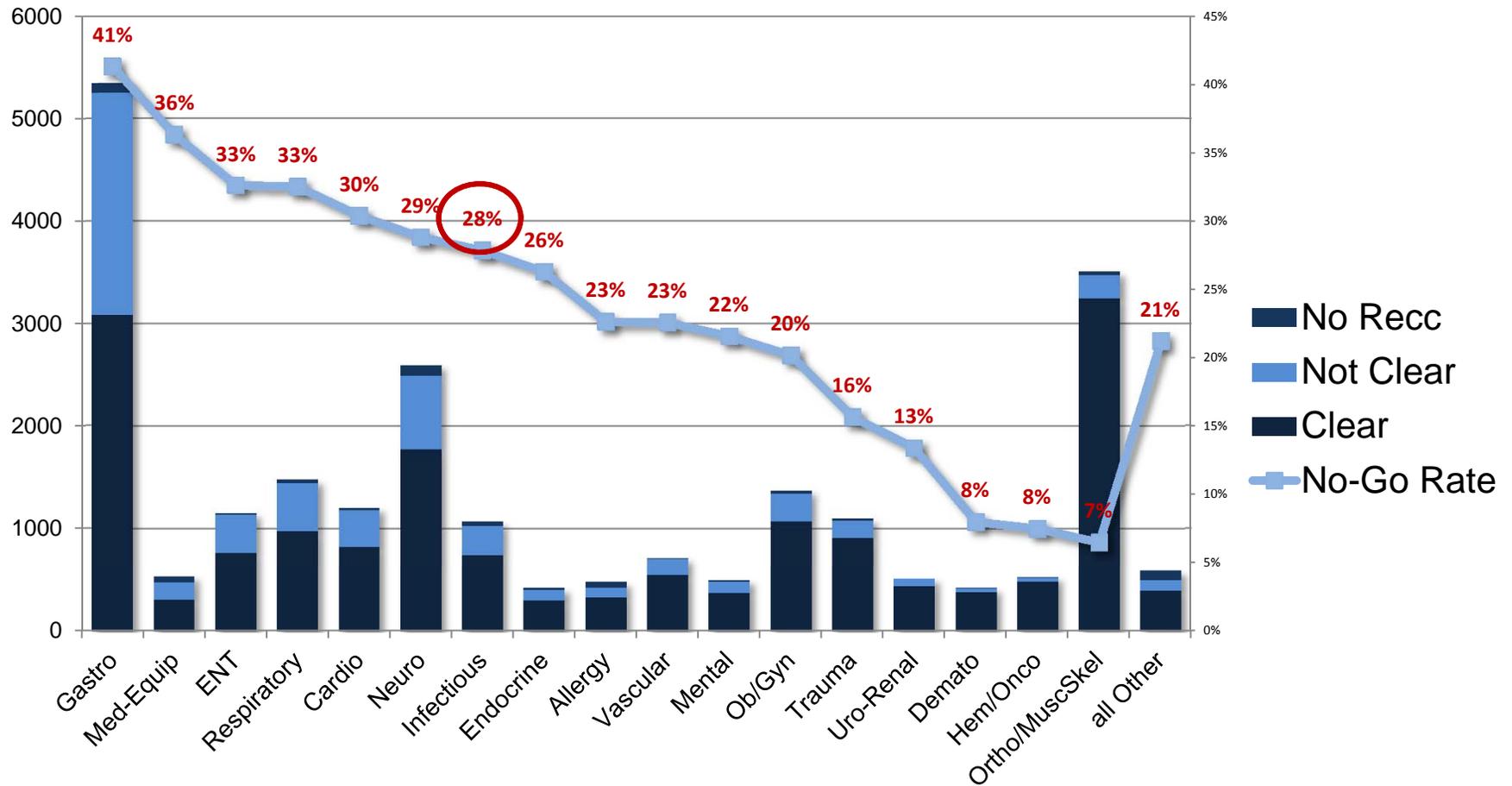
Overall disposition – Pre-flight assessments



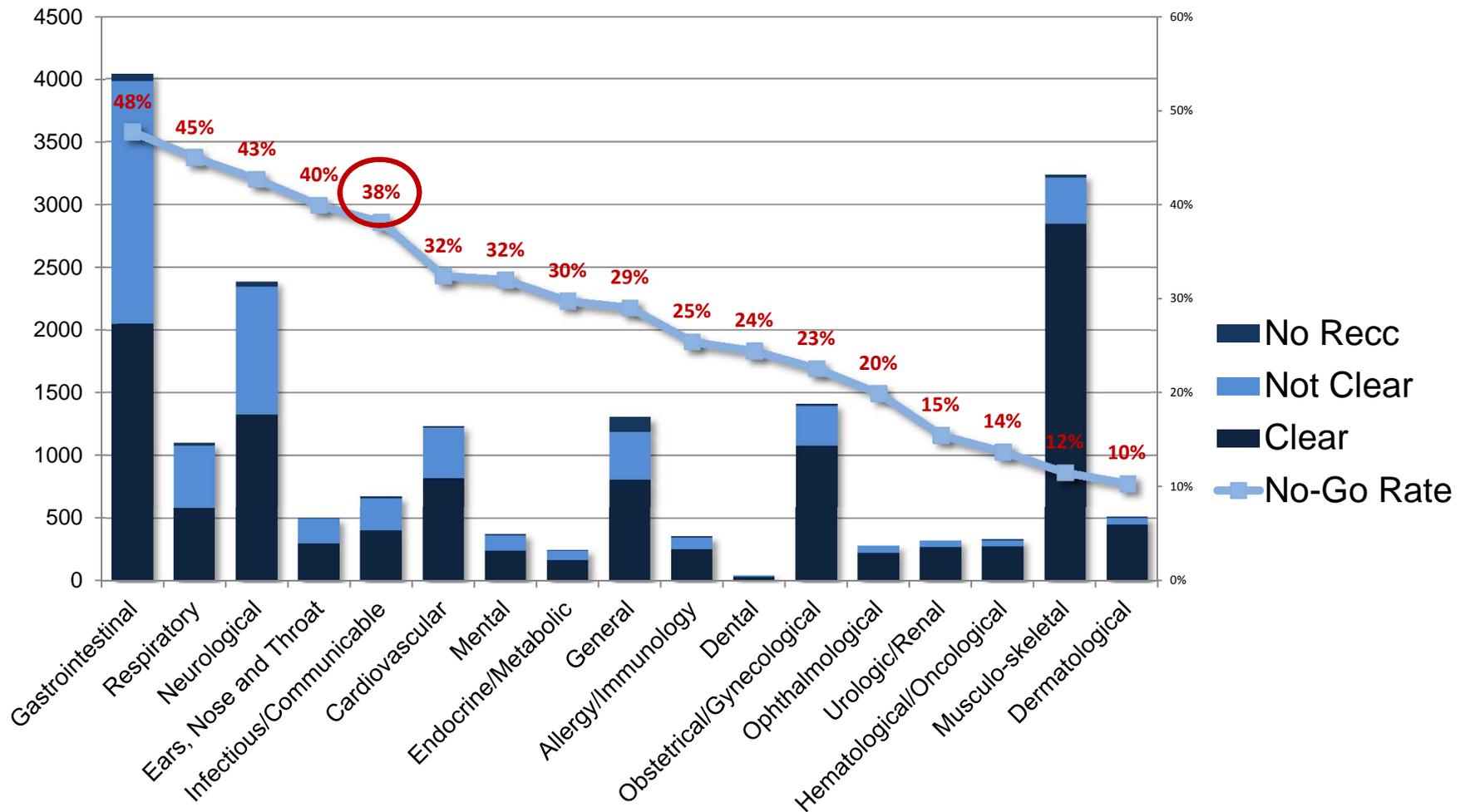
Disposition of Pre-flight Screenings for Infectious / Communicable Diseases (Update 2014)



Dispositions and No-go rate per diagnostic category (2013)

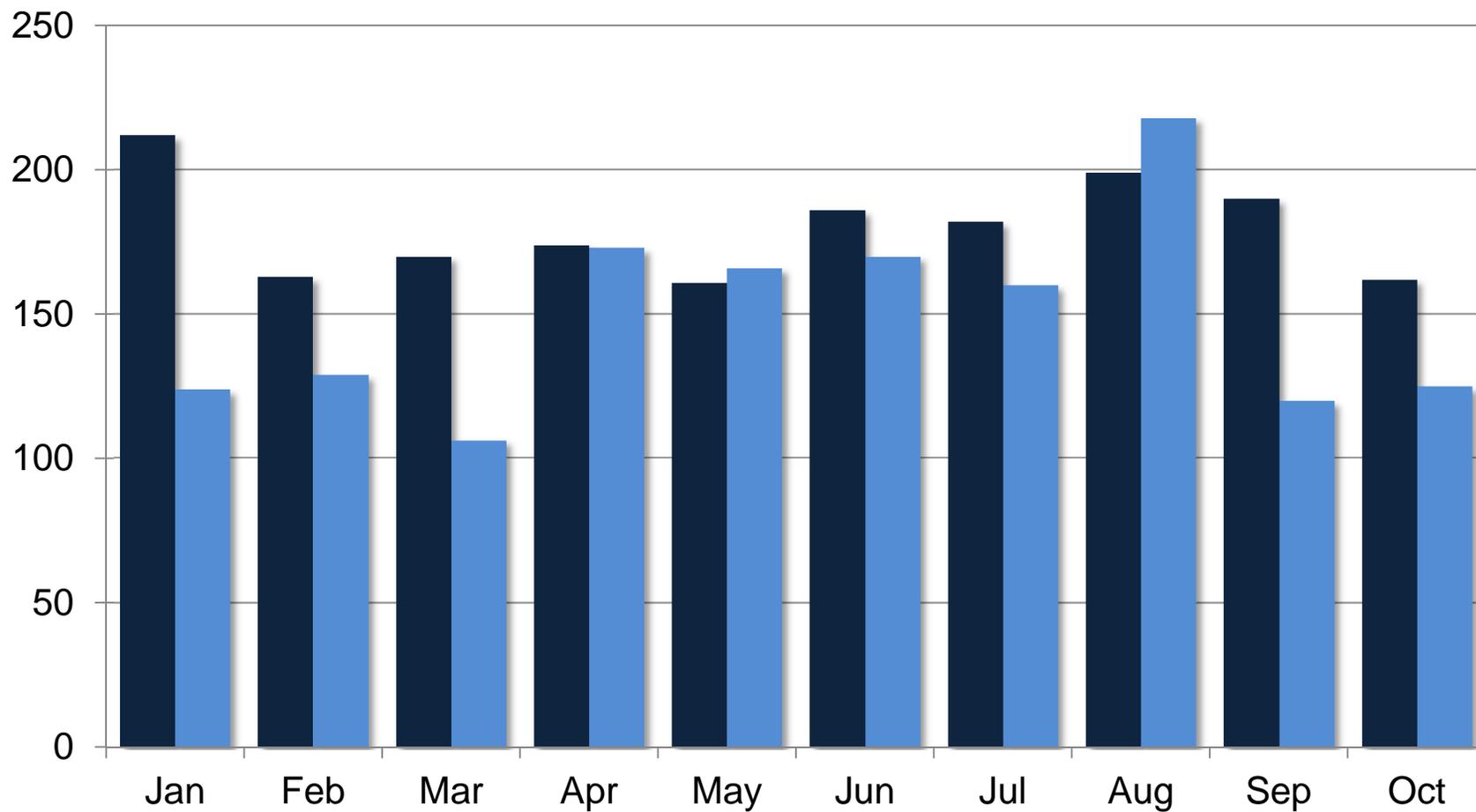


Dispositions and No-go rate per diagnostic category (2014)

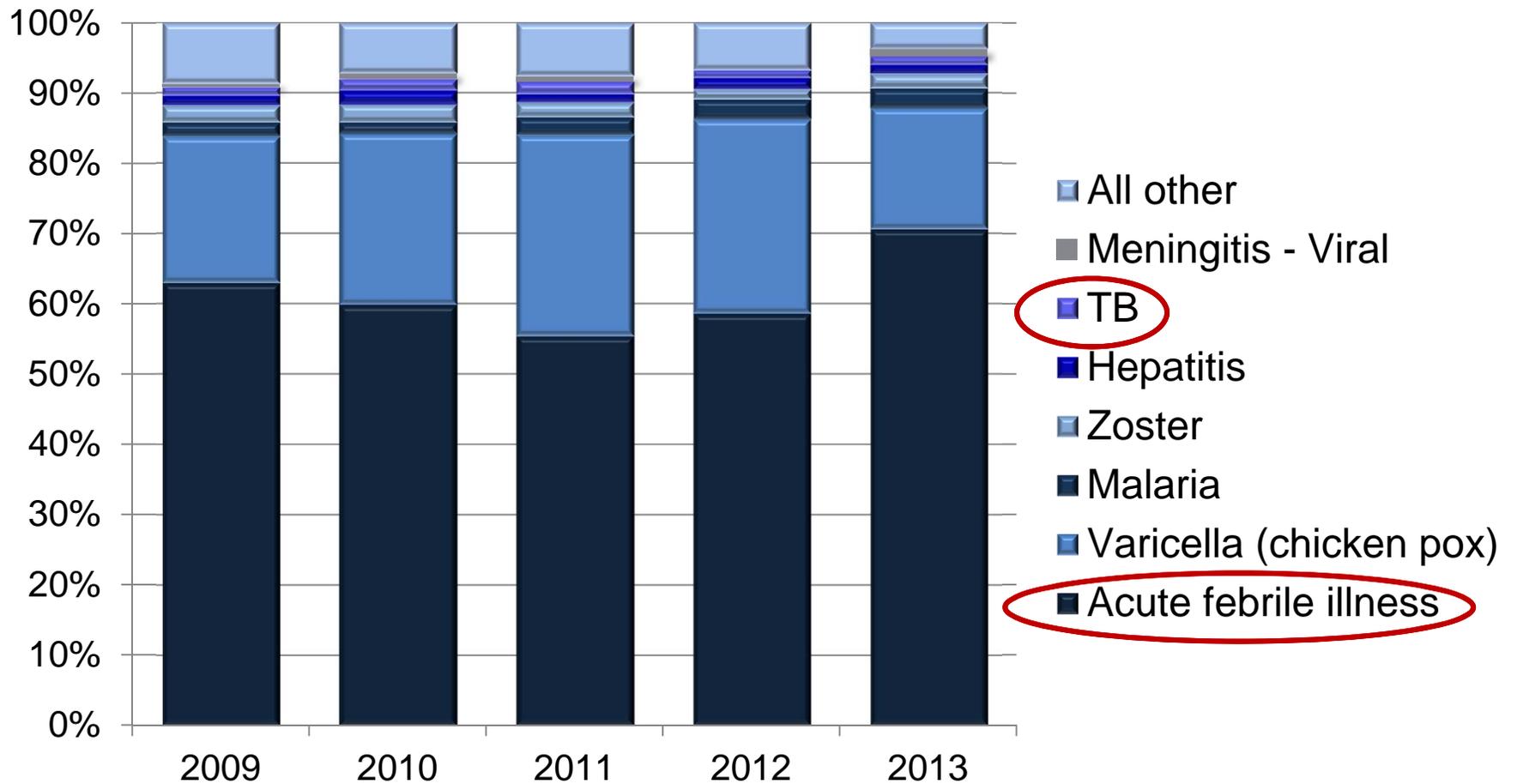


Infectious Diseases 2013/2014

Monthly Apr/Oct



Diagnostic impression



The determined traveler

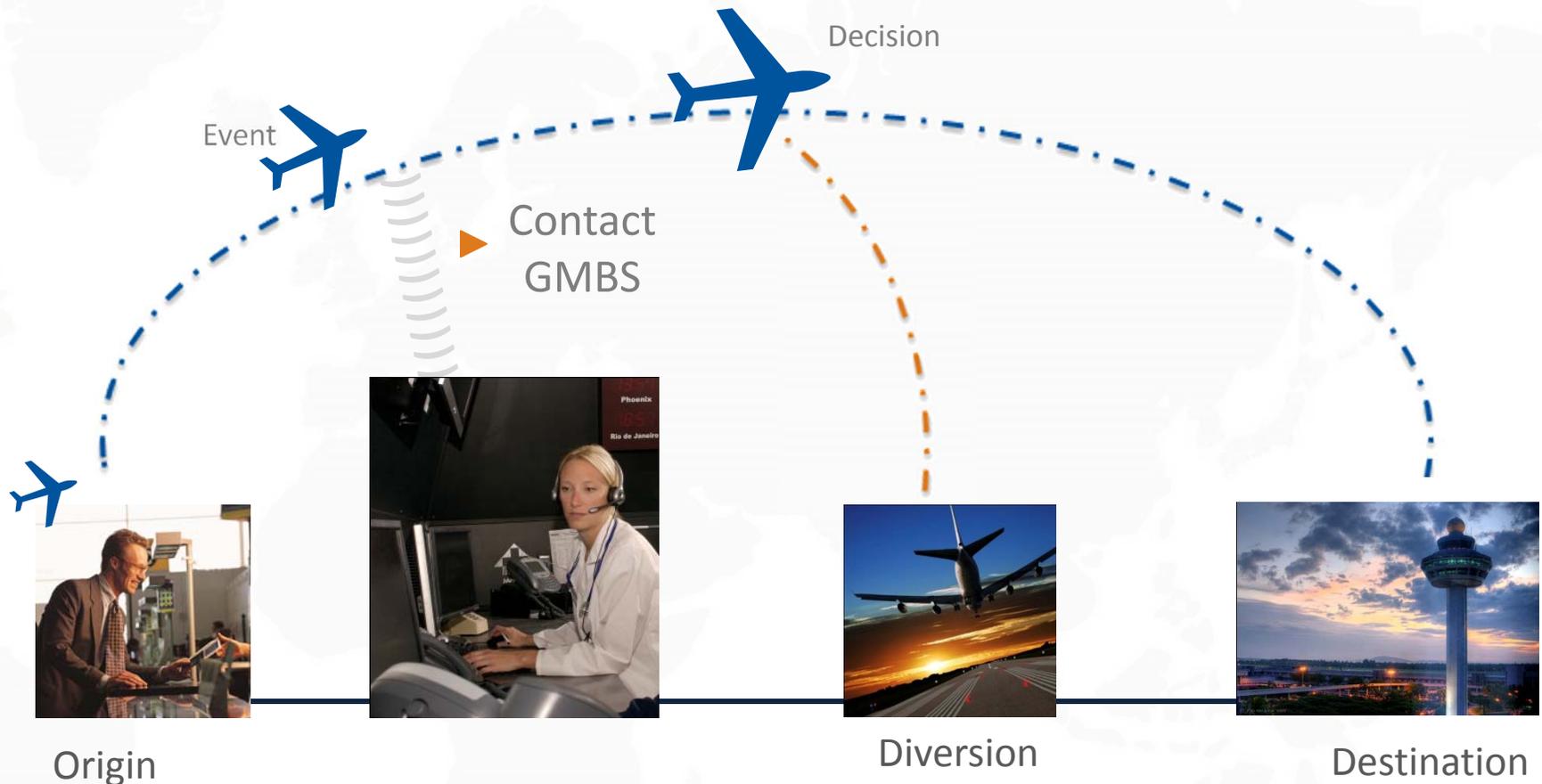


The “index” case: how it all started

<http://who.int/mediacentre/news/ebola/20-october-2014/en/index1.html>

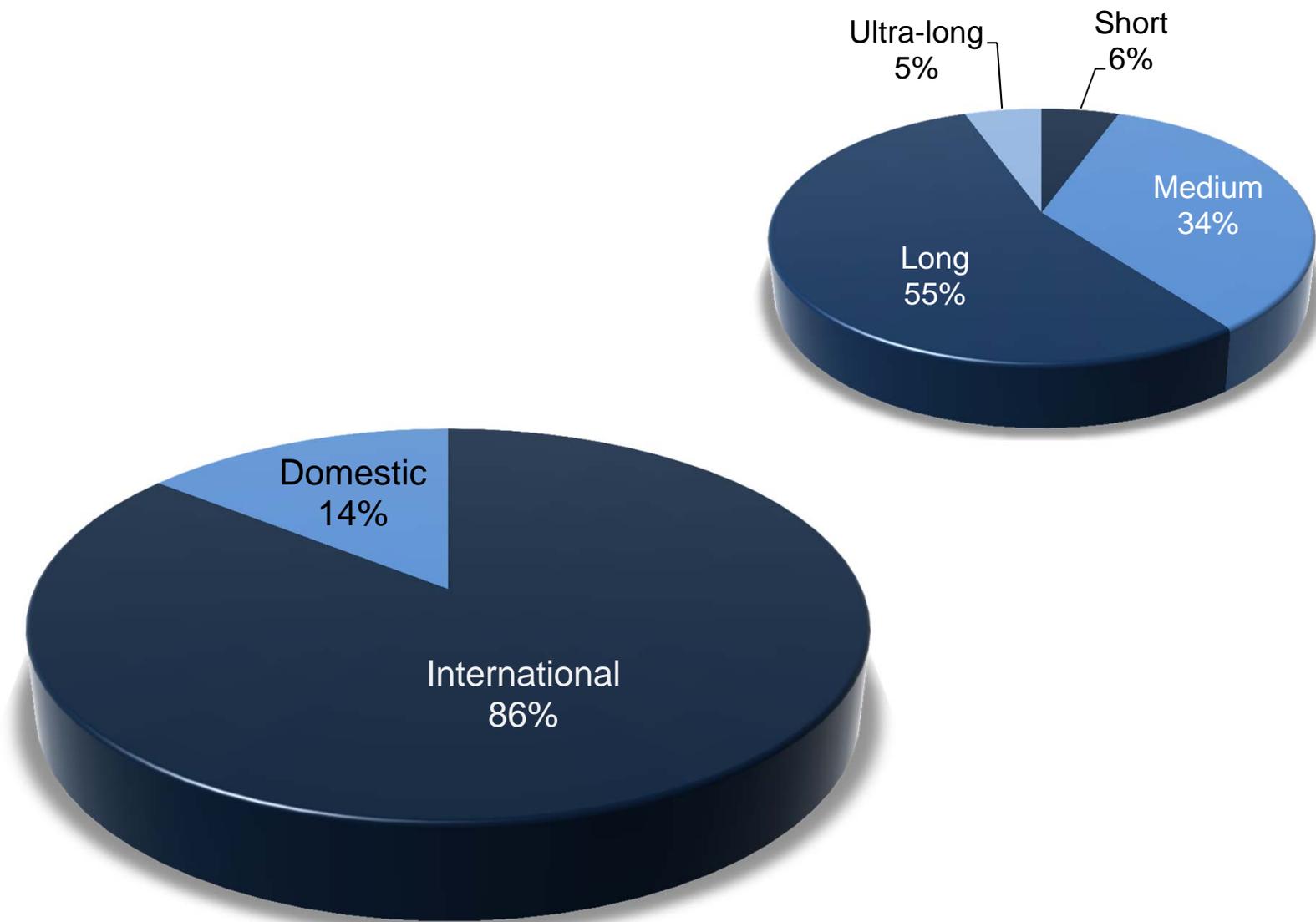
- The Ebola virus entered Lagos on 20 July via an infected Liberian air traveler, who died 5 days later.
 - At the departure airport, he was visibly very ill, lying on the floor of the waiting room while awaiting the flight.
 - At the hospital, he told staff that he had malaria and denied any contact with an Ebola patient.
 - As was learned later, his sister was a confirmed case who had died from the disease in Liberia.
-

In-flight cases

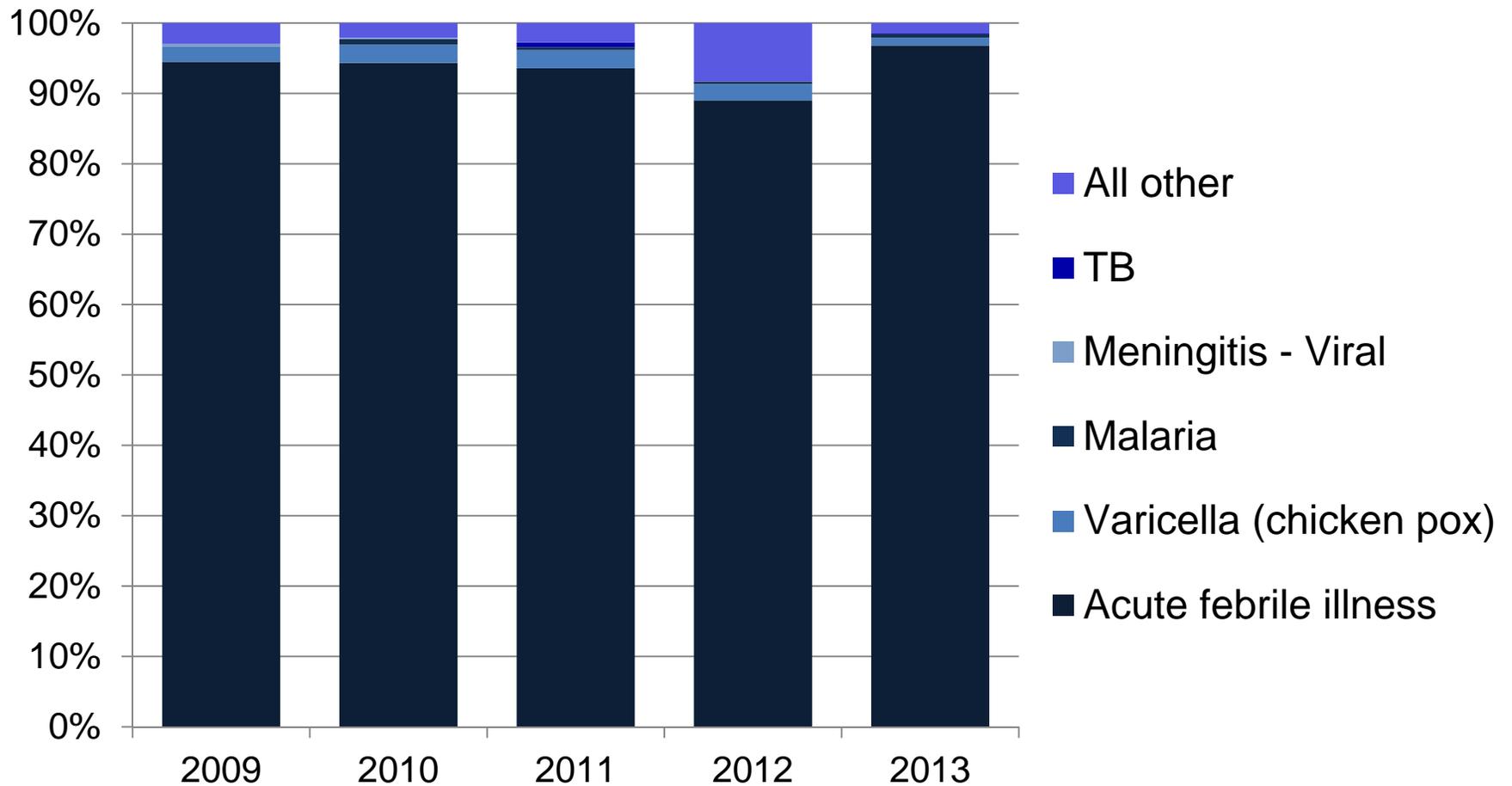


- ▶ Onboard plan of care • Optimize medical volunteers
- Continuation or diversion recommendations • Consistent data capture

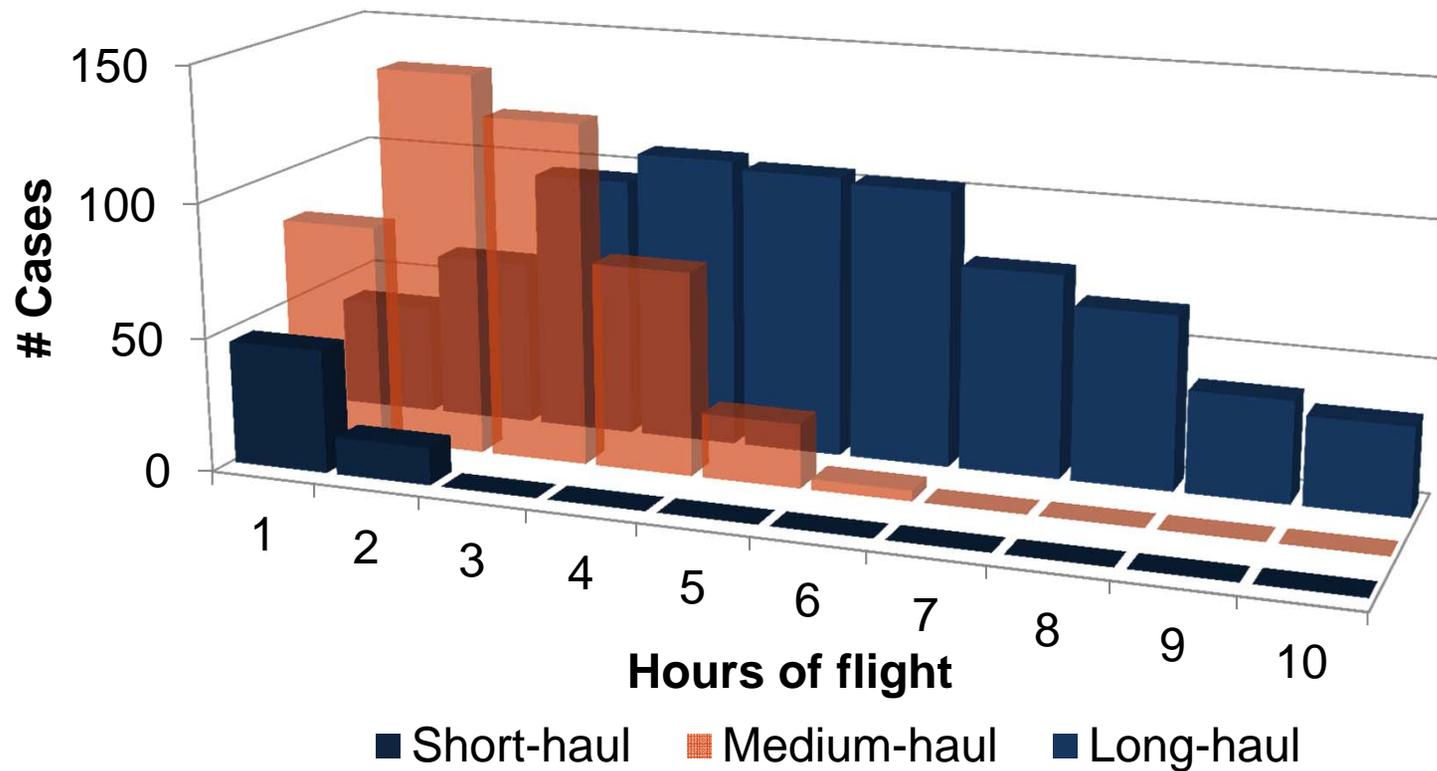
Nature of flight

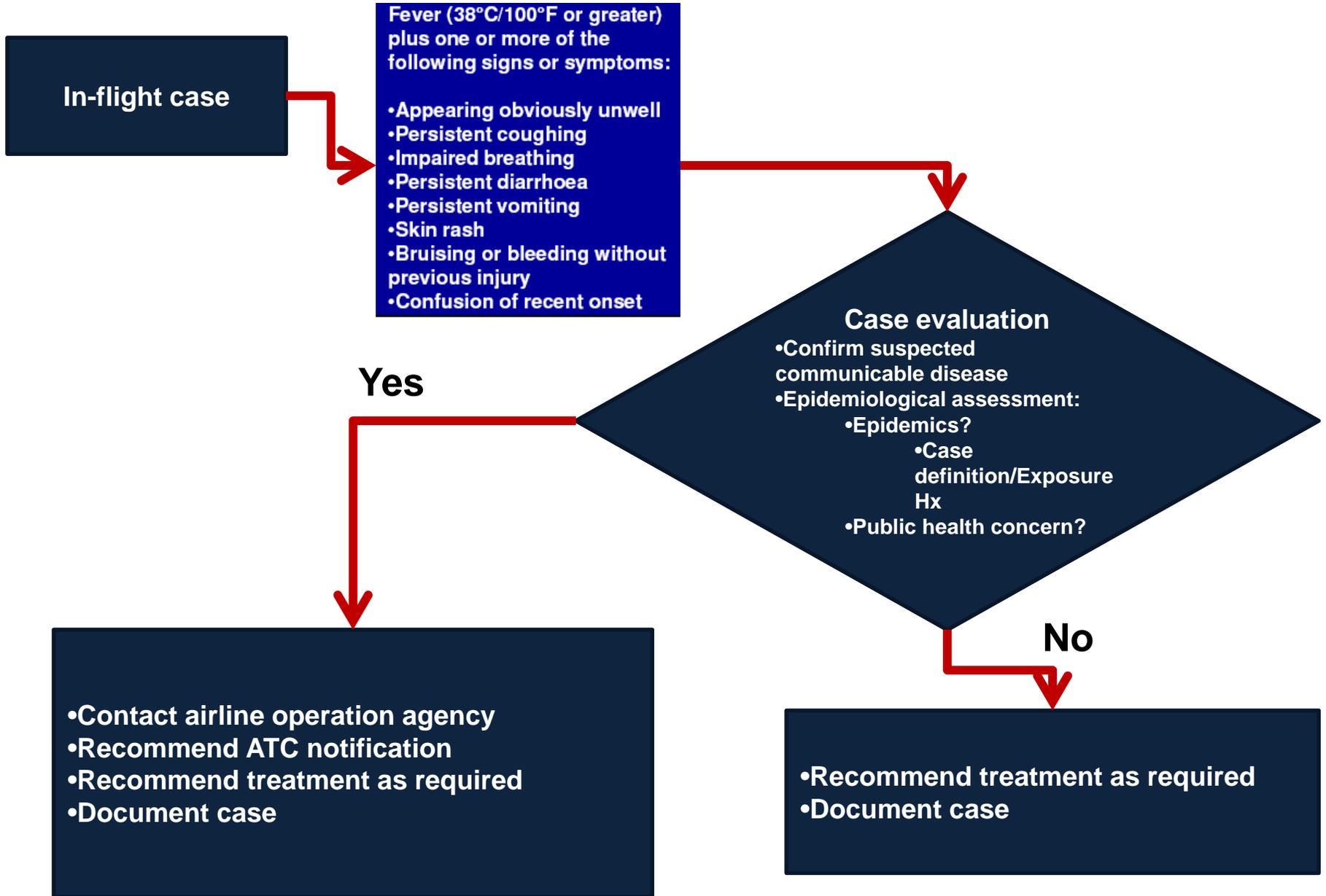


Diagnostic impression – In-flight

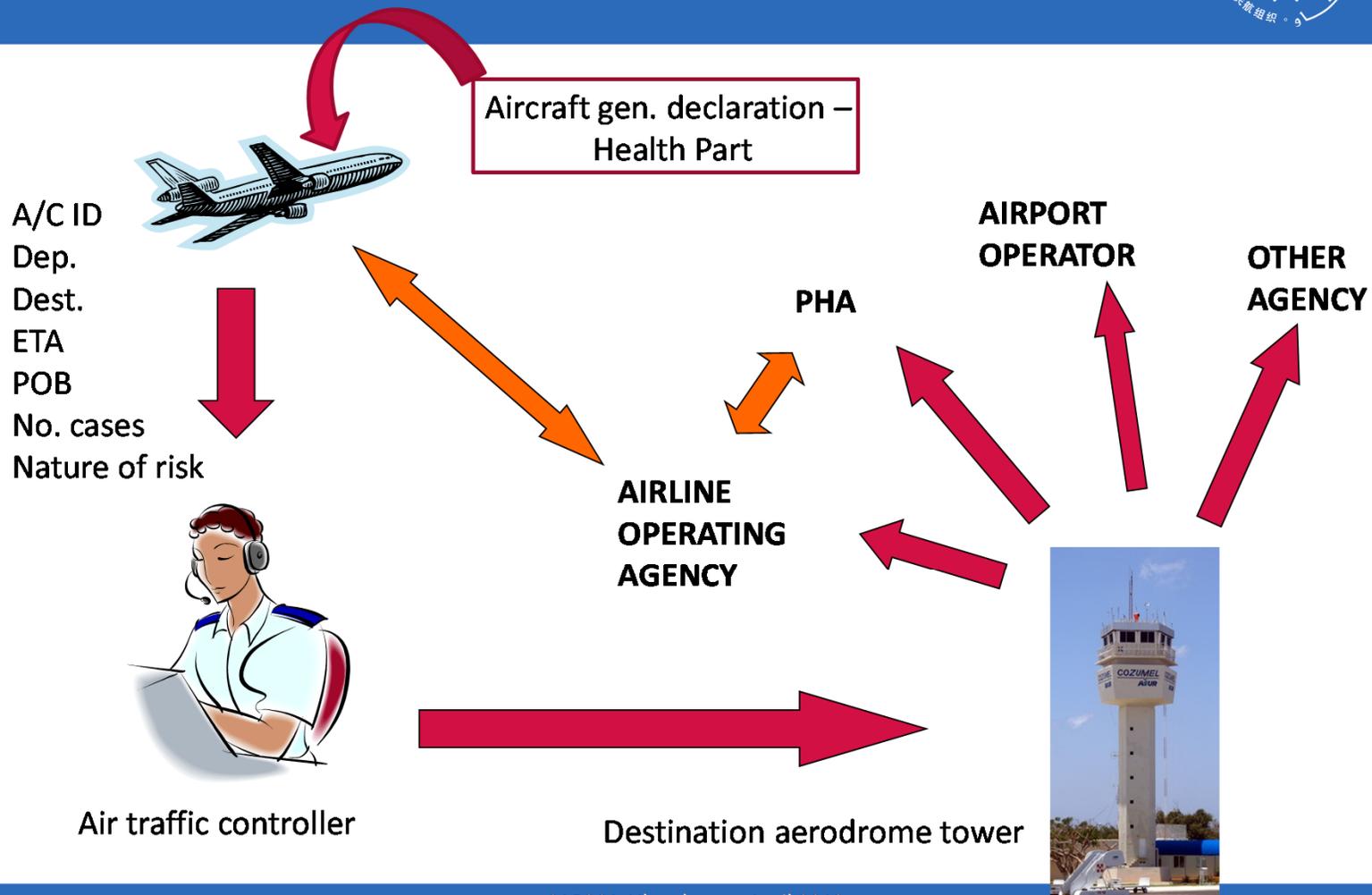


Time into flight

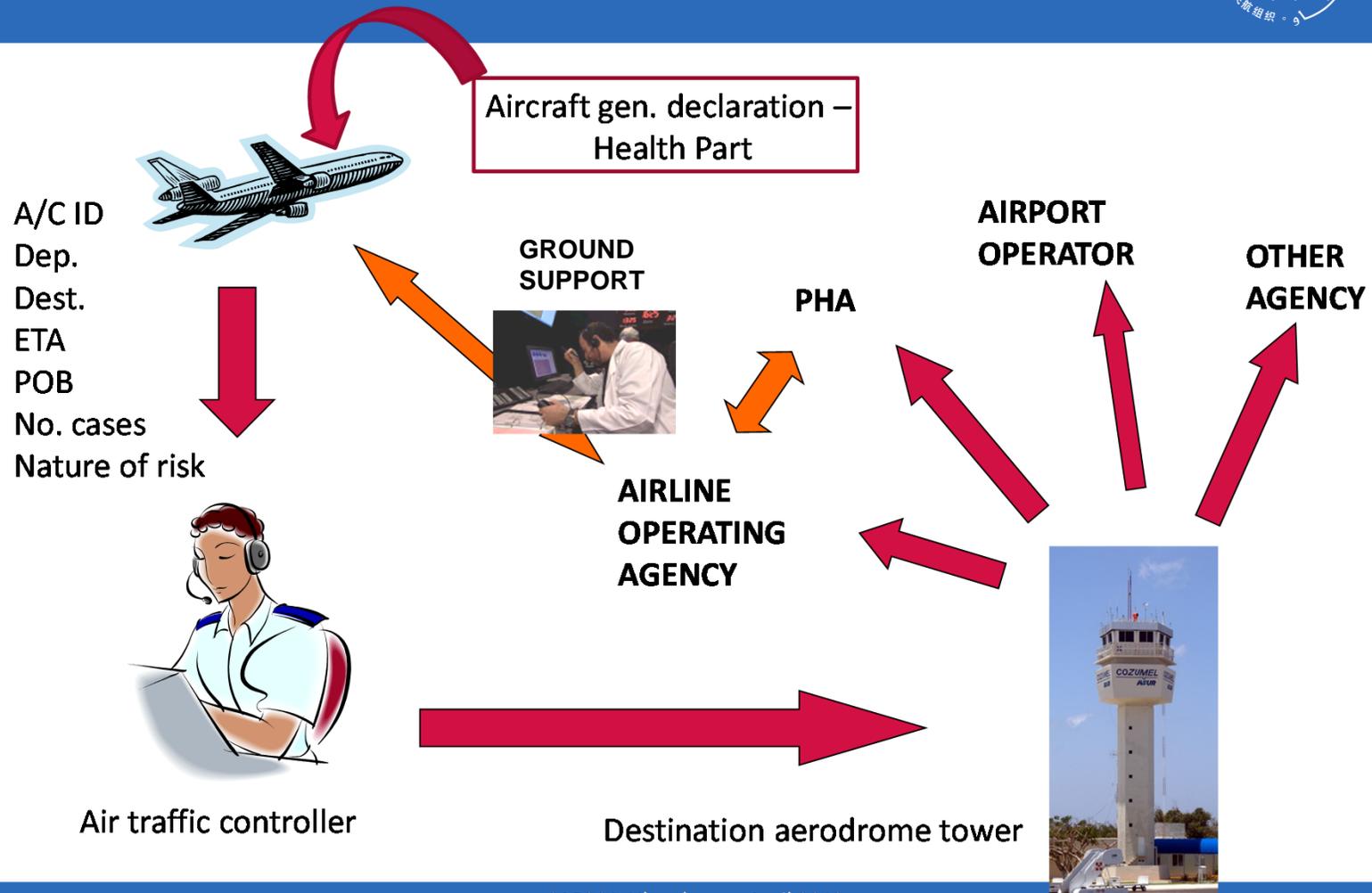




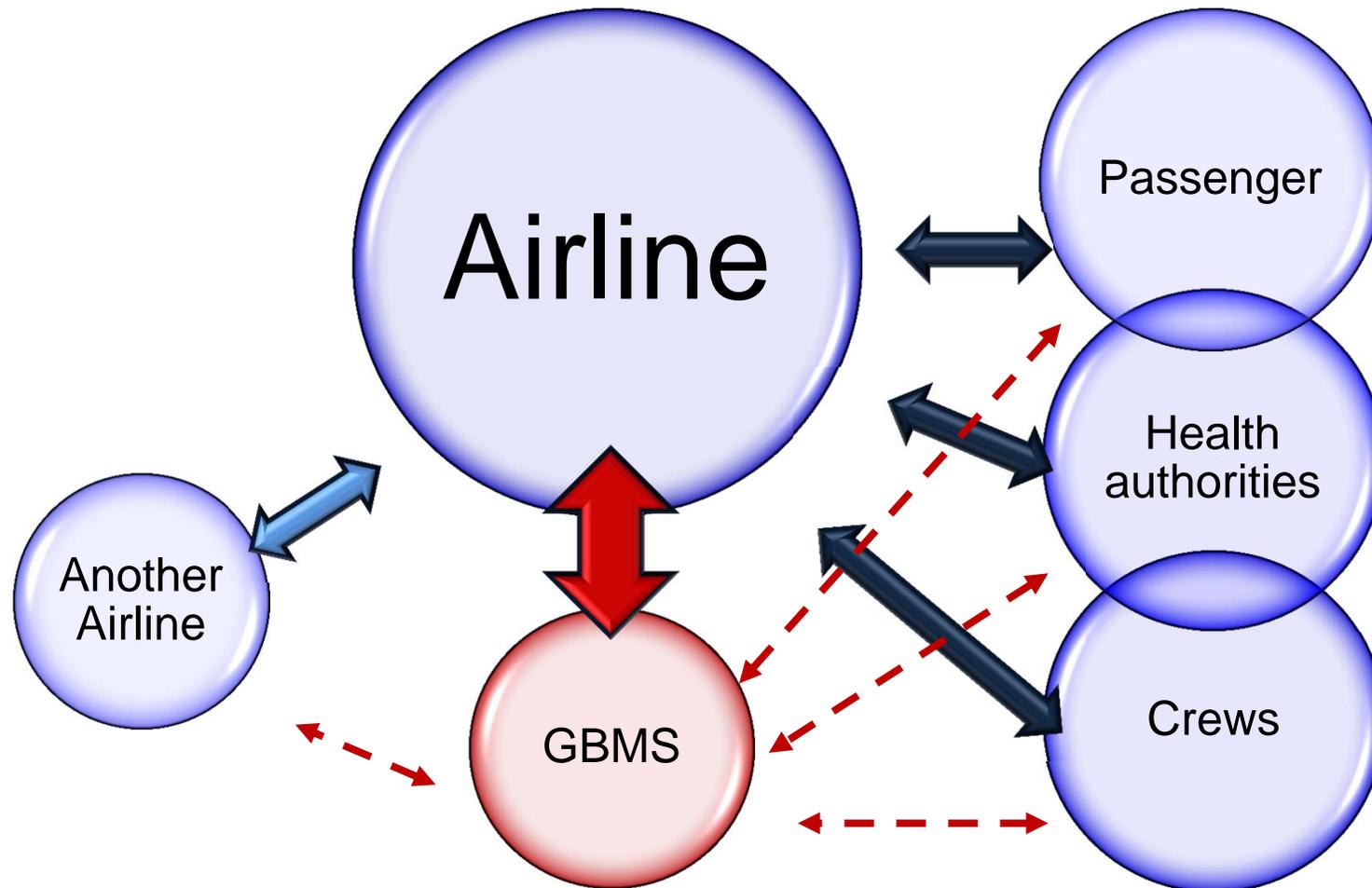
MANAGING AN ON-BOARD CASE



MANAGING AN ON-BOARD CASE

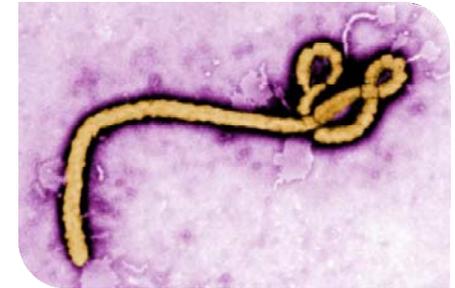


Interactions during public health concern

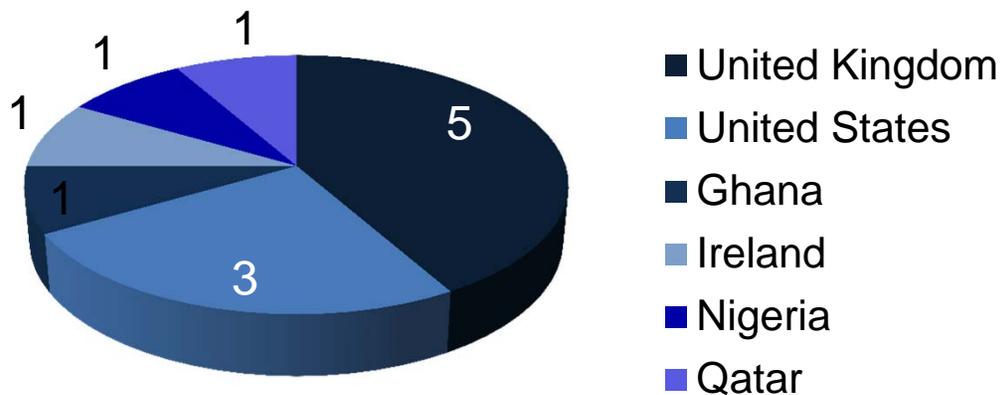


Ebola

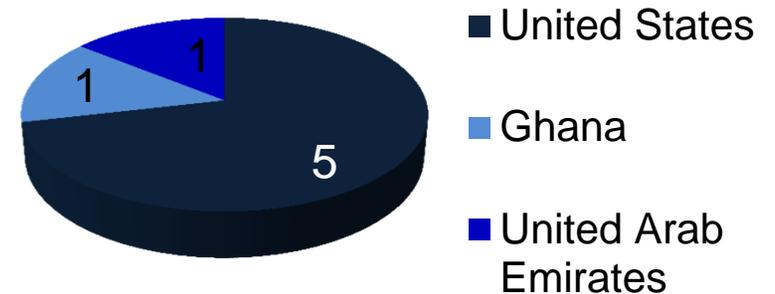
- 19 cases mentioning Ebola in 2014
 - 15 in October
 - 12 In-flight / 7 Pre-flight



In-flight



FTF



Conclusions

- GBMS play a significant role in the management of Communicable Diseases
 - GBMS data provides good monitoring of disease activity during epidemics
 - Enhancing the system
 - Standardization
 - Collaboration
 - Technological advances
-

Shukran! / Thank you!

