Interconnected and Interdependent
Anticipating Infectious Disease Risks in an Increasingly Mobile World
ACRP Insight Event
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6 751 393 674 603 km

22 000+ Round Trips
Trends in Global Air Travel
Distance Traveled Worldwide via Commercial Flights

Domestic
International

2007: 1.5 Trillions of Kms Traveled
2016: 2.2 Trillions of Kms Traveled

2007: 2.8 Trillions of Kms Traveled
2016: 4.5 Trillions of Kms Traveled

+53%
+60%
Global Share of International Km Traveled in 2016

25% of the world’s mobility via air comes from just three countries.

Nearly 50% of the world’s mobility via air comes from just ten countries.
**Connected Cities**

These 20 cities account for one-third of the international distance traveled worldwide in 2016.
Artificial Intelligence

Human Intelligence
Public Health • Healthcare • The Public
Anticipating the International Spread of Zika
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Zika Moves Quickly, and Scientists Fear That Journals Aren't Keeping Pace

By Paul Basken | AUGUST 10, 2016

It typically takes months to shepherd a piece through the peer-review process at top publications. What should scholars do when their work examines how an outbreak might spread within days?
* Using the H1N1 epidemic as an example, at-risk travelers refer to those who initiated travel in Mexico for an international destination. Low-risk travelers refer to all other international travelers, including those who did not initiate travel in Mexico but who made a connecting flight at a Mexican airport en route to another international destination. Exit-screening refers to the screening of travelers on international flights out of Mexico. Targeted entry-screening refers to the screening of travelers on international flights arriving directly from Mexico. Indiscriminate entry-screening refers to the screening of travelers on international flights arriving into any international airport worldwide.
Fig. 5. Evidence-based decision-support tool for cities at risk of the importation of a pathogen causing infectious disease

- Global area(s) with community-based epidemic activity
- Effective exit screening implemented?
  - Yes
    - Non-stop flights arriving directly from affected area?
      - Yes
        - Infectious agent with short incubation period?
          - Yes
            - Evaluate role of entry screening
          - No
            - Screening of travellers not suggested
      - No
    - No
      - Non-stop flights arriving directly from affected area?
        - Yes
          - Evaluate role of entry screening
        - No
          - Screening of travellers not suggested

- Heighten local infectious disease surveillance and mobilize resources for public-health control
Health Companion for Travelers

New Delhi
India

31°C 6:31PM 5:42PM 317K Unsafe

NEED TO KNOW
Travellers’ Diarrhea

Malaria

SHOULD KNOW
Typhoid

Hepatitis A

George
Health Companion for Travelers

Download on the App Store
GET IT ON Google Play
Thank You

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