Presenters





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Infectious Disease, Global Risks, and Duty of Care



The real risk of travel is not travel itself





It's easy to be aware and prepare





Risks of Global Travel

Global escalation in disruptive events

Organized crime & terrorism threats

Socio-economic & geo-political instability

Travel health warnings and outbreaks

Examples:

Examples:

Examples:

Examples:

- Global economic crises
- Natural disasters

 (i.e., Bardarbunga
 volcano)

- Criminal gangs
- ISIS crisis

- Ukraine/Russia
- Gaza conflict

- Ebola (West Africa)
- Dengue fever (Japan)
- Chikungunya (Africa, South East Asia)





What is risk?

 ¹risk
 noun \'risk\: the possibility that something bad or unpleasant (such as an injury or a loss) will happen



Common Travel Conditions



- Cholera
- Jet lag
- Traveller's diarrhea
- Summer encephalitis
- Japanese encephalitis
- Dengue fever
- Enteric fever
- Yellow fever

- Ebola
- Chikungunya
- Typhoid fever
- Hepatitis A & B
- Altitude sickness
- Lyme disease
- Malaria
- Meningococcal meningitis

- Plague
- Poliomyelitis
- Rabies
- West Nile virus
- Culture shock
- STDs
- Motion sickness
- Ebola



Travel Vaccinations

Before you travel, research your destination and find out what kind of vaccinations you might need.

The Public Health Agency of Canada provides information about travel health and vaccination clinics across the country:

www.phac-aspc.gc.ca/tmp-pmv



Cholera

• What is it?

A bacterial infection that causes gastrointestinal symptoms.

How is it transmitted?

Cholera is usually spread by the ingestion of contaminated water or food, especially raw or undercooked shellfish and fish. It is rarely transmitted from person to person.

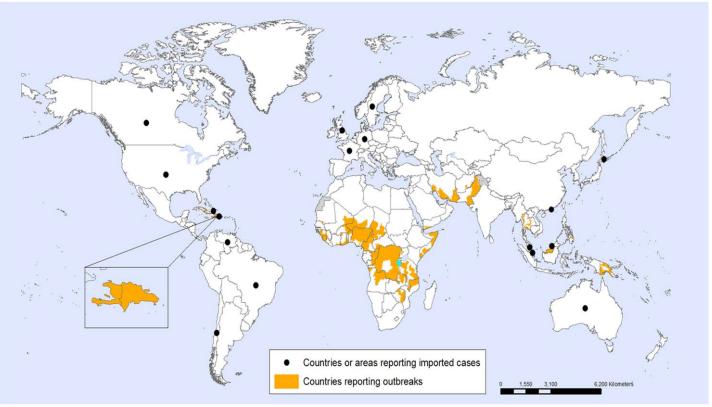
How can it be prevented?

By avoiding contaminated water and food and washing hands frequently. Cooking foods and boiling water thoroughly will destroy the bacteria.



Cholera, areas reporting outbreaks, 2011-2012





The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: World Health Organization
Map Production: Public Health Information
and Geographic Information Systems (GIS)
World Health Organization



Hepatitis A



- What is it?
 A viral infection that can cause intestinal and systemic symptoms.
- How is it transmitted?

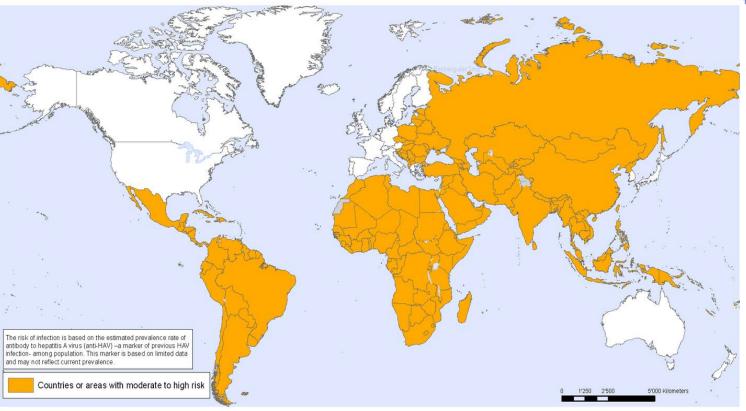
Acquired by direct person-to-person contact or by ingesting contaminated water (or ice), seafood from contaminated waters, or raw fruits or vegetables contaminated during handling. Infected individuals are contagious 2 to 3 weeks before symptoms appear until a week after jaundice has developed. The disease confers permanent immunity.

- How can it be prevented?
- 1) Wash hands before handling food
- 2) Wash hands before meals and after using the bathroom
- 3) Do not eat or drink beverages and foods that might be contaminated

Source: www.intrepid24/7.com

Hepatitis A, countries or areas at risk





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Data Source: World Health Organization.
Jacobsen KH, Wiersma ST. Hepatitis A virus seroprevalence by age and world region,
1990 and 2005. Vaccine 2010 Sep;28(41):6653-7
Map Production: Public Health Information
and Geographic Information Systems (GIS)
World Health Organization



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Yellow Fever





Viral infection that can cause fever, systemic symptoms, and even death.

How is it transmitted?

By the bite of an Aedes mosquito, which may bite at any time during the day, mostly in shady areas or inside dwellings. It is also found in forest areas where monkeys act as reservoirs for the virus. The disease is not transmitted with every mosquito bite. The incubation period varies from 3 to 6 days.

How can it be prevented?

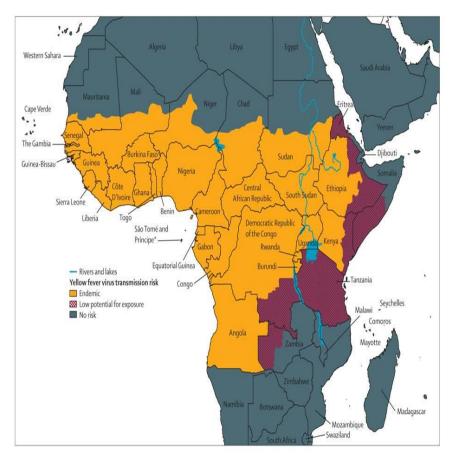
Apply an insect repellent, use bed netting, and wear light-coloured, long-sleeved shirts and long pants.

Source: www.intrepid24/7.com

Yellow Fever









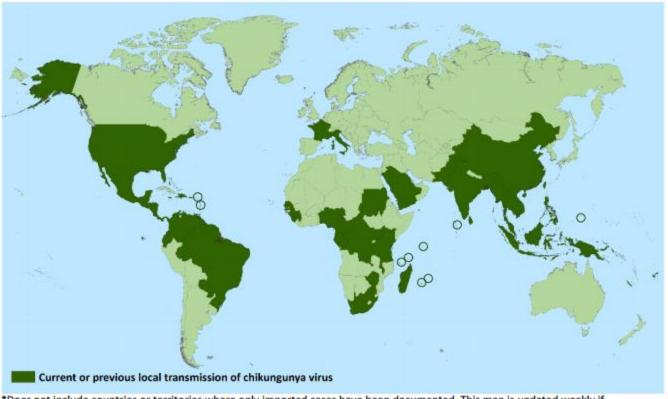
Chikungunya

- What is it?
 A mosquito viral disease that causes fever and general malaise
- How is it transmitted?
 Spread through the bite of an infected mosquito carrying the chikungunya virus, mainly the Aedes aegypti and Aedes albopictus species.
 Mosquitoes that carry chikungunya virus bite mainly during the daytime.
- How can it be prevented?
 Protect yourself from mosquito bites.

Source: www.euro.who.int/en/health-topics/communicable-diseases/vector-borne-and-parasitic-diseases/dengue-and-chikungunya







^{*}Does not include countries or territories where only imported cases have been documented. This map is updated weekly if there are new countries or territories that report local chikungunya virus transmission.

Source: www.cdc.gov/chikungunya



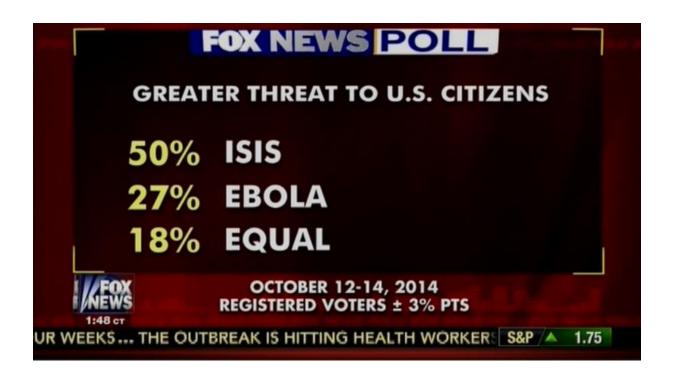
The Ebola Virus

- What do you know about Ebola?
- Where did you get your information about Ebola?





News is often hyperbolic and sensationalist





Ebola Virus

• What are the symptoms?

There are many possible symptoms, including but not limited to fever, muscle pain, nausea, internal bleeding, and eventual organ failure.

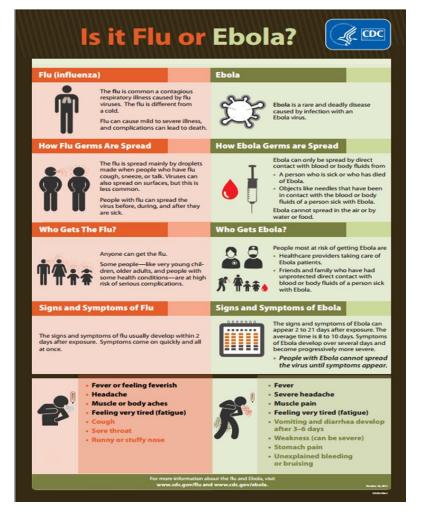
The case-fatality rate varies from 25 to 90 percent, depending on the strain.

How is it transmitted?

Human-to-human transmission always occurs through direct contact with the bodily fluids of an infected person



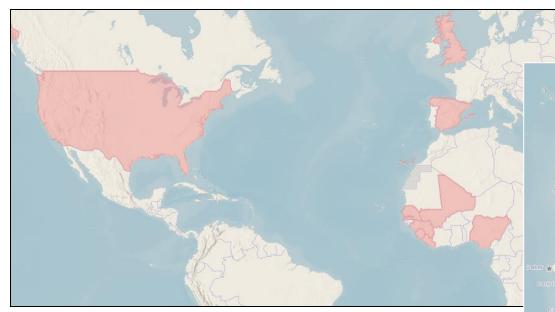
Source: www.who.int/mediacentre/factsheets/fs103/en/



Sources:



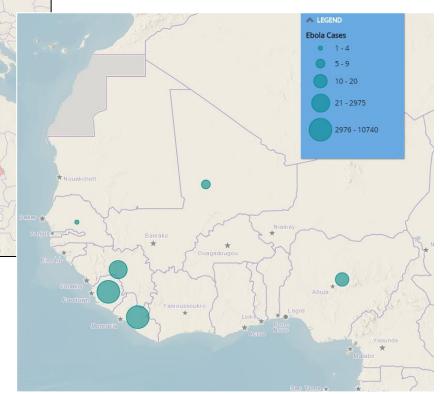
Where is the outbreak?



The worldwide risk is **limited**.

Source:

http://maps.who.int/MapJournal/?appid=5b29178821dd4584b78dcb18d280326a&webmap=ba5db5b64e8d454f81498521c0002080

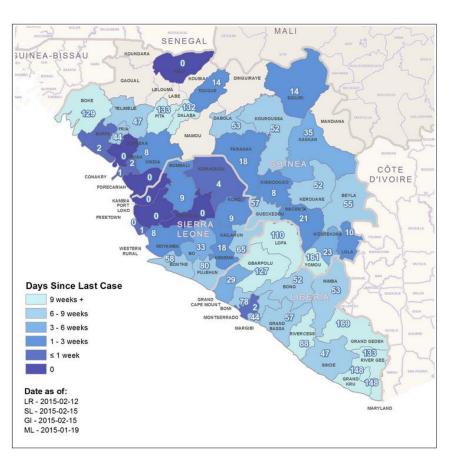


World Health Organization



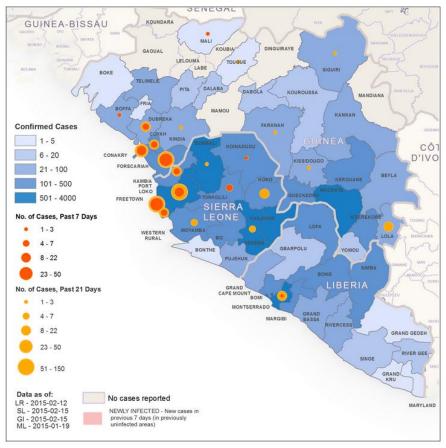
"With adequate levels of preparation, introductions of Ebola can be contained with a rapid and adequate response"

- WHO's preparedness activities aim to ensure all countries are ready to effectively and safely detect, investigate and report potential EVD cases, and to mount an effective response.
- WHO provides this support through country visits by preparedness support teams (PSTs), direct technical assistance to countries, and the provision of technical guidance and tools.



Geographical Distribution of New and Total Confirmed Cases- February





Source: http://apps.who.int/ebola/en/ebola-situation-report/situation-reports/ebola-situation-report-4-february-2015



United Nations

- Formed the Global Ebola Response Coalition
- appointed public health expert Dr. David Nabarro as Special Envoy on Ebola
- an additional \$1 billion to fund the Ebola response in 2015

Medecins Sans Frontieres (Doctors Without Boarders)

- 302 international and around 4,000 national locally hired staff in the region
- 8 Ebola case management centers (CMCs), providing approximately 650 beds in isolation, and one transit center
- admitted more than 8,100 patients; 4,960 were confirmed as having Ebola; more than
 2,300 patients have survived
- more than 1,400 tonnes of supplies have been shipped to the affected countries since
 March



The Red Cross

- In 16 countries with response and preparedness activities
- 200 International Staff and 6,019 Volunteers

Local governments

- Initial response underestimated Ebola, and the governments were slow in responding
- The affected countries introduced border closures (against the advice of WHO)
- Nigeria, Liberia, Sierra Leone and Guinea closed their schools temporarily
- Liberia Football Association suspended activity and converted grounds into Ebola treatment centre
- in Guinea, when local community organizations worked closely with MSF to fight Ebola, the survival rate was 75 percent

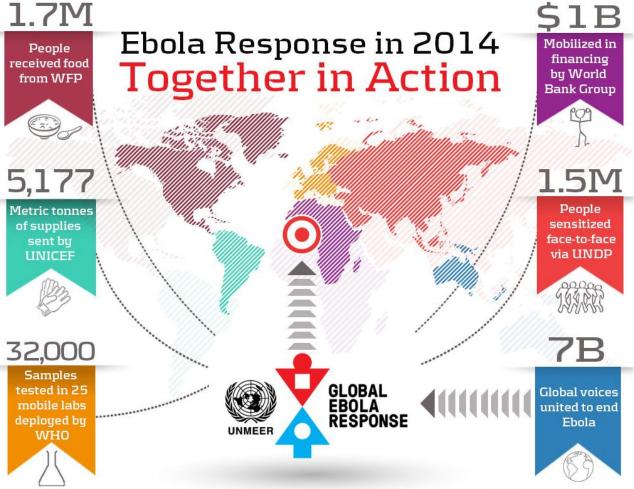
Sources: http://america.aljazeera.com/opinions/2014/7/ebola-outbreak-westafricahealthcare.html

Keep in Mind...



- This is an outbreak regionalized in West Africa
- Most affected countries suffer from weak health care systems and a lack of infrastructure
- Basic hygiene practices can help stem Ebola infection:
 - regular hand washing
 - changing of clothes, bedding, and boots before/after contact with patients or medical tools
 - following proper burial protocols







INGLE

Find out more at ebolaresponse.un.org

Ebola in North America



USA

- There have been four confirmed cases
- The first died in hospital
- Three others recovered and were released within 3 weeks of diagnosis
- These were isolated incidents and did not infect others after arrival to the USA

Canada

 While around 25 people have had suspicious symptoms since the outbreak, there have been zero confirmed cases

Sources:

http://www.cdc.gov/vhf/ebola/outbreaks/2014-west-africa/united-states-imported-case.html http://www.cbc.ca/news/politics/ebola-tested-in-25-cases-in-canada-all-negative-1.2800855



Should We Be Scared?

Developed countries have the ability to control the spread of illnesses such as Ebola because of very specific infectious disease protocols that are in place on a provincial and federal level.

"What we should be afraid of is not Ebola, but the way we are handling it. Are health care providers prepared? Are containment processes being created and updated? Have we trained staff, have we planned, and have we informed the at-risk population properly? Above all, have we taken fast action to stem the spread of the disease in the countries that are hardest hit by it?"

- Robin Ingle

Source: http://www.robiningle.com/halloween-a-festival-of-fear/

Keep things in perspective...





- Heart disease and cancer: 1 in 7
- Chronic lower respiratory disease: 1 in 29
- Motor vehicle incident: 1 in 112
- Falls: 1 in 152
- Drowning: 1 in 1,000
- Choking from ingestion of food: 1 in 3,500
- Bee sting: 1 in 76,000
- Bitten by a dog: 1 in 104,000
- Struck by lightning: 1 in 136,011



Duty of Care

Do You Know What It Is?





A legal standard placed on an organization requiring that it exercise due diligence in taking all reasonable steps to protect employees and anyone under their care from foreseeable harm.



Bill C-45



Bill C-45, Canada's

Criminal Code:

Organizations owe
a "Duty of Care" to
those under their
care



Institutions must take reasonable steps to protect students and staff, whether in Canada or abroad

10 Duty of Care Best Practices

- 1. Increase awareness and know-how of DOC at the admin level
- 2. Objectively assess your school's vulnerabilities
- 3. Establish and ensure compliance with DOC policies and procedures
- 4. Conduct due diligence
- 5. Communicate, educate, and train
- 6. Assess risk prior to every departure
- 7. Track travelling employees at all times
- 8. Implement an emergency response notification system for students, faculty, and staff
- 9. Implement an employee emergency response system
- 10. Ensure vendors are aligned

Source: Claus, Lisbeth. Duty of Care: Scholastic Sector. http://www.internationalsosfoundation.org/?wpfb_dl=109



Remember These Travel Tips

- 1. Registration of Canadians Abroad (ROCA): Visit travel.gc.ca/travelling/registration to register before you go
- 2. Health insurance: Make sure you have appropriate coverage
- 3. Vaccinations and medications: Do research on what's needed for your host countries and get immunized before you travel
- 4. Prescription medications: Get a list from your pharmacist of all the medications that you take and familiarize yourself with their generic names
- 5. Travel health advisories: Be aware of advisories and health conditions at your destination

Insurance with emergency medical assistance is one of the most important things you can pack!

"Be brave. Take risks. Nothing can substitute experience."

Paulo Coelho





Time for your Questions!



Thank you!



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