Travelers' Diarrhea



Learning Objectives

Students should be able to:

- ✓ Define who is affected by Travelers' Diarrhea
- ✓ Identify some of the risk factors
- ✓ Identify the risk groups
- ✓ Identify ways to prevent Travelers' Diarrhea

Definition

What: Microbial contamination of ingested food and/or water

When: It occurs during or shortly after travel

Who: Affects most travelers' that come from a highly developed hygiene and sanitation infrastructure to a less developed one.

What else: Vomiting and diarrhea may predominate, and symptoms usually go away within 12-18 hours.



Risk Factors

- There are regional differences (travel destination) in both the risk and etiology (type) of diarrhea.
- The world map divides the regions into three grades of risk: high, intermediate, and low.
- Low-risk countries include the USA, Canada, Australia, New Zealand, Japan, and countries in Northern and Western Europe.
- Intermediate-risk countries include those in Eastern Europe, South Africa, and some of the Caribbean islands.



Risk Factors, continued

- High-risk areas include most of Asia, the Middle East, Africa, and Central and South America.
- Some destinations that were considered highrisk have now been classified as low or intermediate risk, including parts of Southern Europe and some of the Caribbean islands.
- On average, 30%-50% of travelers to high-risk areas will develop TD during a 1-to-2 week stay.

Risk Factors, continued

- Based on the annual figure of 50 million travelers to developing countries, this equals to approximately 50,000 cases of TD each day.
- In more moderate regions, there may be seasonal variations in diarrhea risk.
- In South Asia, for example, during the hot months preceding the monsoon, much higher TD attack rates are commonly reported.

Risk Groups

- Travelers' diarrhea occurs equally in males and females
- Is more common in young adults than older people
- In short-term travelers, bouts of TD do not appear to protect against future attacks.
- More than one episode of TD may occur during a single trip.



Prevention

For travelers to high-risk areas, several approaches may be recommended, which can lower but never completely eliminate the risk of TD.

- Eat foods that are freshly cooked and served piping hot.
- Avoid water and beverages diluted with water (example: ice,milk,fruit juice, and bottled water) and foods washed in water, such as salads.





Prevention, continued

- Other risky foods include <u>raw</u> or <u>undercooked</u> meat and seafood, raw fruits, and vegetables.
- Safe beverages include those that are bottled and sealed or carbonated. Including boiled beverages and those that are properly treated with iodine and chlorine.
- What else: Studies of TD show that consumption of food and beverages from street vendors in high-risk destinations poses a higher-risk, including certain food items such as reheated prepared foods or buffet items.

Statistics

- According to the National Digestive Diseases Information Clearinghouse (NDDIC), infectious diarrhea diseases for the United States show the following:
- There were 16 million new cases in 1996
- A count of 2,481 deaths in 2002
- Hospitalization cases ranged from 375,000 to 777,000 in 2002
- Doctor visits among 8 to 12 million in 1985
- Prescribed patients ranged from 5 to 8 million in 1985

Reference: www.cdc.org

He who has health has hope; and he who has hope has everything.

Arabian Proverb



Review Questions

- 1. Define Travelers' Diarrhea.
- Which country is <u>not</u> considered a low-risk country for Travelers' Diarrhea? (circle one)

Canada USA Japan Africa

3. Travelers' Diarrhea occurs only in males.

T/F

- 4. Safe beverages include those that are ____ and ___ or carbonated.
- 5. Avoid eating risky foods that are _____ and ____.