

PREPARING A PT FOR TRAVEL

- 1. Diseases spread through food and water
- 2. Diseases spread through blood and bodily fluids
- 3. Diseases transmitted by insects

DISEASE TRANSMITTED THROUGH FOOD AND WATER			
DISEASE	NOTES	РХ/ТХ	
TRAVELER'S DIARRHEA E. coli (80-90%) Campylobacter jujuni Shigella Salmonella	 Dysentry - if blood is in the stool (classified as severe). Mild: tolerable, doesn't interfere with activities Mod: distressing, interferes with planned activities Severe: incapacitating, completely prevents activities Onset of sx: 6-72 hrs Untreated TD:3-7 days Persistent TD = >14 days TD can result in IBS 	RULE:" cook it, peel it, or forget it" PX: - Bismuth subsalicylate (BBS), Pepto-Bismol - Abx is not usually rec., give to high risk pts - Recommended Abx: Rifaximin TX: Hydration (↑ fluid and salt) Mild: Loperamide	
		Mod: *Loperamide +/- antibiotics Severe: Azithromycin 1g x 1 +/- Loperamide Note: Loperamide = 'IMODIUM A-D'	
TYPHOID FEVER Salmonella typhi	 Can be severe and life-threatening Vaccines are 50-80% effective Wash hands and take food/water precautions even if vaccinated 	Vaccines: Vivotif Oral, live, attenuated Dont use if on Abx or stomach's sensitive Q5yrs 1 week before traveling Don't use <6yo Typhim Vi (inactivated, IM) Q2yrs ≥ 2 weeks before Don't use <2yo	
CHOLERA Vibrio cholerae	- "Rice water stools"	Vaccines: Vaxchora - Live-attenuated - Single, oral - Min: 10 days before - Age: 18-64	



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DISEASE TRANSMITTED THROUGH FOOD AND WATER (cont)

POLIO

- Vaccine given in childhood
- Single lifetime booster dose min 4 wks prior to travel is recommended for adults who are traveling to regions with it
- May have to show proof of vaccination
- Documented on Certificate of Vaccination or Prophylaxis (ICVP)

HEPATITIS A

- At highest risk: person traveling from developed country to developing countries
- Can be asymptomatic
- Symptoms: fever, malaise, jaundice, nausea, abdominal discomfort

DISEASES TRANSMITTED THROUGH BLOOD & BODILY FLUIDS

HEPATITIS B

- Cause: blood and bodily fluids
- Incubation of 90 days
- Sx: malaise, jaundice, nausea, GI discomfort
- Chronic infection can result in chronic liver disease

or liver cancer

- Vaccine is really important if travelers plan on:
 - Receive medical care
 - Provide medical work
 - Have sex w/ new partners
- Avoid piercings/tattoos

- 3-dose vaccine series
- 6 mo to complete
- Receive as many doses as possible before traveling
 - Can complete upon return
- High risk: May admin accelerated series
 - Requires booster dose at 1 yr for long-term immunity

MENINGOCOCCAL

MENINGITIS N. menigitidis

- Medical emergency
- Sx: fever, HA, nausea, stiff neck, mental changes
- Belt of Africa (Dec-Jun)

- Cause: respiratory secretions

- High mortality rate
- - Requires urgent tx

- Quadrivalent vacine containing 4 bacterial types: ACWY
- Required by Saudia Arabia govt. during annual Hajj and

Umrah pilgrimages



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DISEASES TRANSMITTED BY INSECT BITES			
THESE ARE ALL TRANSMITTED BY MOSQUITOES			
DENGUE Aedes aegypti Aedes albopictus	- Asymptomatic- Can develop life-threatening disease- Sx: shock, severe bleeding, organ failure	- No vaccine -Tx: Supportive care	
MALARIA Anopheles mosquito	- Multiplies in the liver and then moves into RBCs - Sx: shaking chills, high fever, flu-like illness Types: - Plasmodium vivax (most common) - P. falciparum (most deadly) - P. malariae - P. ovale	Quick start PX: - Atovaquone/Proguanil (Malarone) - Doxycycline (Doryx, Vibram ycin) - Primaquine (most effective against P. vivax) Advance start PX: - Chloroquine - Mefloquine (Lariam)	
JAPANESES ENCEPHALITIS	 Sx: asymptomatic or Sx: encephalitis w/ rigors & seizure risks, coma, and death Mostlikley infected in rural agricultural areas 	PX: reduce exposure to mosquitoes Vaccine: Ilxiaro - Age > 2 mo - who's spending time outdoors or - who's staying min 1 mo in endemic areas	
YELLOW FEVER	- Sx: most are asymptomatic, influenza-like sx, risk of shock and organic failure	Vaccine: YF-VAX - Live-attenuated - Contra: hypersensitivity to eggs - ICVP ("yellow card") provided after - Card is only valid if completed 10 days before TX: symptomatic relief with fluids, analgesics, and antipyretics - Aspirin and other NSAIDs cannot be used (↑ risk of bleeding)	



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DISEASES TRANSMITTED BY INSECT BITES (cont)

ZIKA VIRUS

- Sex or blood transfusion-associated transmission

Aedes

- Sx: fever, maculopapular rash, arthralgia, conjunctivitis
- Caused babies to be born with microcephaly

- No vaccine
- Use condom
- Avoid mosquitoes
- Do not travel to areas if pregnant

- Insects that transmit disease are vectors
- Stay and sleep in screened or rooms w/ AC
- Use bed net (can be pre-treated w/ repellant)
- Cover exposed skin
- DEET: mosquito repellant
- Picaridin, oil of lemon, eucalyptus, or IR3535: mosquito repellant (not ticks)
- Permethrin to treat clothing, gear, bed nets
 - Do not apply directly to skin

ADDITIONAL CONCERNS FOR TRAVELING INDIVIDUALS

VENOUS THRMBOEMBOLISM PX

PX:

- Compression stockings

- Walk

- Lower leg exercises

ALTITUDE SICKNESS AND MOTION SICKNESS

- Acute mountain sickness (AMS)
 - Occurs when you climb rapidly to a high altitude

PX:

- Acetazolamide (Diamox) 125 mg BID day before (preferred) or day of
 - Contra: sulfa allergy
 - AE: rash, taste alteration, dehydration, photosensitivity, urticaria



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