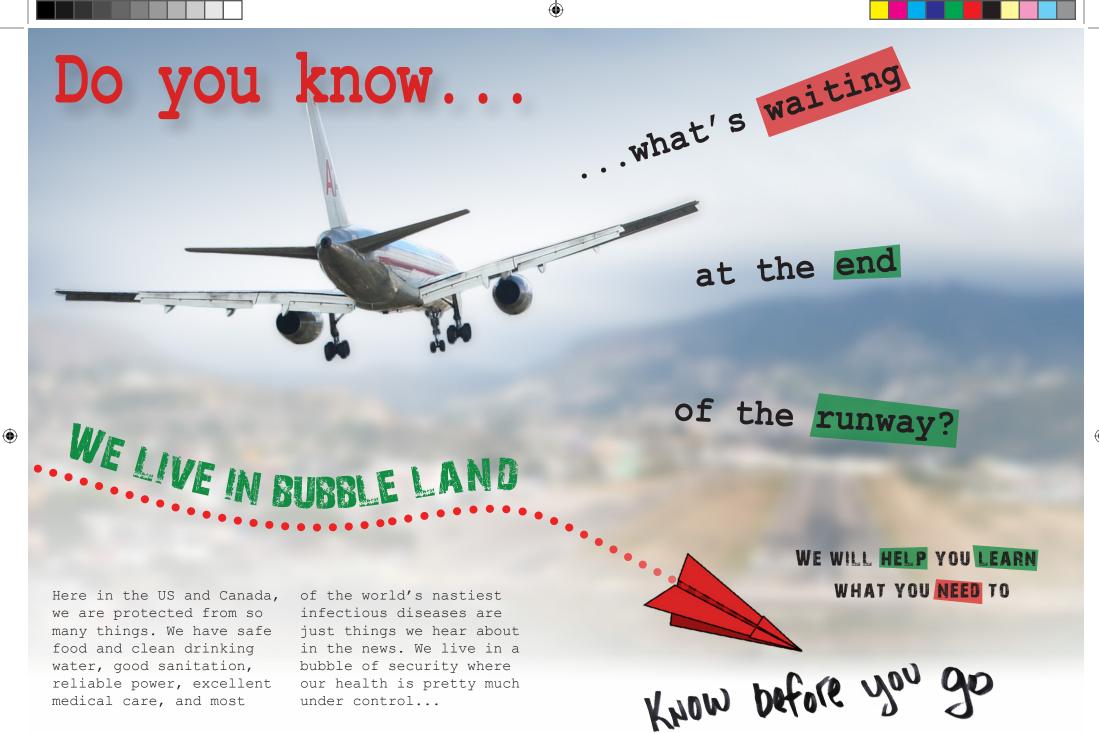




you go!



under control...

then we get on the airplane and fly out of the bubble.

medical care, and most

Fill in info for each person going on the trip









DM, etc.

# THINGS TO DO AND SO BEFORE YOU SO

# Things to do

- Get all applicable vaccinations—see list on following page, along with good online resources
- Consider evacuation insurance, a global entry card, and/or mobile passport
- Determine if, and how, you are going to exchange your money
- Inform your bank/credit card company of your plans; consider asking your bank to raise your daily withdrawal limit (ATMs are best for dayto-day cash on foreign trips)

# Things to bring

- Clothing and footwear appropriate for the environment and weather
- Broad-brimmed hats, sunblock, sunglasses
- Travel comfort aids: motion sickness meds, ear plugs, neck pillow, etc.
- OTC meds for problems you don't typically see at home (e.g., diarrhea, see next spread)

# And while in the air

- Stay hydrated—at least 1 liter of water every 2 hours (and urininate every 3 – 4 hours)
- Get up and stretch at least every 2 hours, to minimize risk of blood clots

don't fly to airports above 8,000'Take 325mg Aspirin daily





# Beware of "going native"

Going barefoot on a warm, far-flung beach in January, when you're from Fargo or Bangor, may seem lovely, but it's also potentially dangerous.

Beside the obvious perils of blisters, sunburn, thorns, and other foot injuries, in many parts of the world parasites lurk underfoot just waiting for your unshorn sole. Among them:

Strongyloides stercoralis—Threadworm, creeping eruption

**Necator americanis**—New World hookworm **Ancylostoma duodenale**—Old World hookworm **Tunga penetrans**—chigoe flea

#### **SEXUALLY TRANSMITTED DISEASES**

Extremely common—use safe sex practices

#### **ACCIDENTS**

Motor vehicle accidents represent the highest risk for death among travelers

#### **ALTITUDE**

Above 8,000' know the symptoms of Acute Mountain Sickness, High Altitude Pulmonary Edema, and High Altitude Cerbral Edema. Go down until symptoms subside.

Hot springs?

Maybe not so hot...

(and swimming can

Yet another warm attraction, hot springs, and swimming in dirty water, may expose you to other nasty critters.

**Schistosomiasis** swimmer's itch, duck itch (irritating)

Naegleria fowleri amebic meningitis (extremely rare, but over 95% fatal)

We're not saying don't swim or visit hot springs, just be careful.

# WARNINGS

#### Be careful with water

Dehydration is dangerous, and hydration is really important, but you must protect yourself. Just because water <u>looks</u> clean, doesn't mean it is.

- Only use bottled water with the factory seal intact
- Purify water by boiling, filtering, treating with iodine or chlorine, or UV light (Steripen)
- Neither alcohol nor freezing kills microbes—beware of ice cubes



- Peel vegetables or cook them—
   nothing raw
- Only eat well-cooked meat, served hot
- ✓ Do not let flies land on your food—
  they carry disease on their feet

  ✓



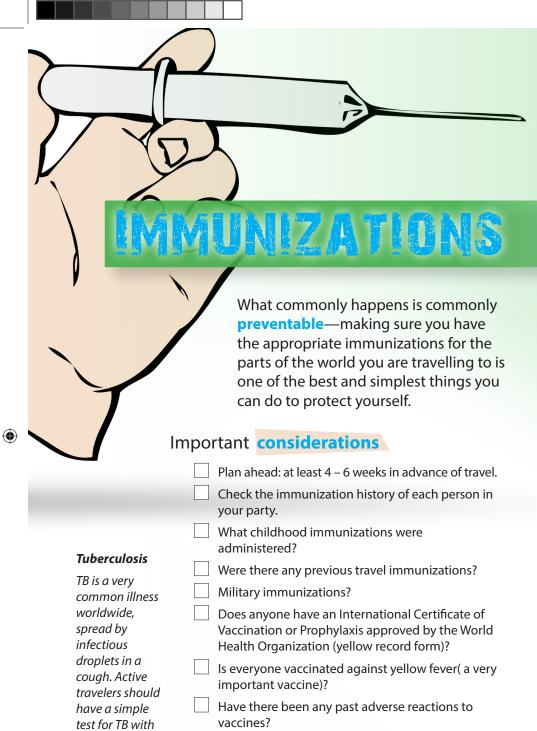
# You definitely don't want traveler's diarrhea



This is by far the most common medical problem for travelers. It can be simply caused by throwing the stomach off its normal schedule, or by consuming contaminated food or water and improper hand washing. If the diarrhea comes on days to weeks after your trip, it was likely caused by parasites such as ameba, protozoa, or worms.

Treatment: stay hydrated, take Pepto-Bismol; if not improving after 24 hours, consider antibiotic: Bactrim DS or Cipro, 500mg by mouth, every 12 hours, for 2 doses





Does anyone have an egg allergy (some vaccines

contain egg protein; check with your doctor)?

Make a list and schedule for needed vaccines.

Record everyone's immune status.

PPD every 1-2

years.

You probably

# already have

#### these

(Usual childhood vaccines—aaes 0 to 18 years old)

MMR

Hepatitis B & Hepatitis A

Rotovirus

Tetanus & Diptheria & TDap (acellular pertussis)

Haemophilus influenza type b

Pneumococcal conjugate (PCV 13)

Varicella

Poliovirus, inactivated

Influenza

Meningococcal

**Human Papillomavirus** 

## Additional

#### resources

Centers for Disease Control: www.cdc.gov/travel/

State Department for specific country warnings: www.travel.state.gov/

World Health Organization: who.int/ith/2016-ith-county-list.pdf



# Recommended

#### **Travel**

## Vaccines

Tetanus & Diptheria & **TDap**—every 10 years, essential for all travelers

> **HAV** + **HBV** as a combined vaccine. Twinrix

**Typhoid** live/oral—Vivotif Berna—one capsule every other day x 4 doses; also available as an injectable

**Yellow Fever**—live vaccine Life-long immunity; required by some countries; risk in sub-Saharan Africa and Amazon basin: vaccine must be administered at an approved Yellow Vaccine Center

**Meningococcal**—risk in sub-Saharan Africa, the Himalayas, and for travelers to Mecca; if primary shot <age 7, then booster at 3 years; primary >age 7, booster at 5 years; polysaccharide vaccine

**Rabies** pre-exposure— 10ml IM on days 0, 7, 21 or 28; will require 2 additional doses post-exposure

Japanese Encephalitis— 1.0ml on days 0, 7, and 30; 90% + efficacy

**Cholera**—will be available again in the near future.

**Influenza**—a new vaccine is developed each year, depending on the anticipated strains



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If you travel to tropical or near-tropical places outside the US, one of your biggest challenges will be bites and stings.

Unless you are going to Antarctica, you should be prepared for biting insects

**Mosquitos**— there are many mosquitoborne diseases including malaria, dengue fever, Zika, and Chikungunya; mosquitos are ubiquitous and cosmopolitan, found in every environment except polar—wherever you go, there they are.

**Black flies**— certain species cause *river* blindness in large parts of South America and much of non-arid Africa.

Ticks— are also world travelers, and carry at least 16 illnesses, including Lyme Disease.



# MALARIA

Of all the insectborne diseases, malaria is by far the most widespread and dangerous threat to public health. Malaria is found straddling the equator in over 100 countries, putting almost half the world's population at risk, and according to the WHO, it infected an estimated 212 million people in 2015.

- Malaria makes you very, very sick
- Signs and symptoms include high fever, shaking rigors, intense body aches and pains, nausea, and a headache
- It is one of the most common illnesses on earth
- It is one of the most common causes of death on earth
- It is spread by the anopheles mosquito
- While there is no immunization available, there are prophylactic medications that can be taken to prevent it
- You want to prevent malaria!

#### **Prophylactic antimalarial medications**

- Doxycycline (100mg by mouth, daily); start at least 2 days before potential exposure to malaria; continue daily throughout the trip and continue for at least 7 days after the exposure is over. Doxycycline will protect against all forms of Malaria and 12 of the 16 tickborne illnesses.
- Malarone (atovaquone 250mg + proauanil HCl 100mg) daily by mouth; start 2 days before exposure and continue for 7 days after. Malarone will prevent the most lethal form of malaria.
- ▶ **Mefloquine** (250mg by mouth weekly); start 2 weeks before travel/ exposure and continue throughout the duration of your trip and for 4 weeks following exposure. While you only have to take 1 dose per week, it is not commonly used because of potential side effects: night terrors and psychotic behavior. It will prevent 2 of the 5 forms of malaria, Plasmodium falciparum and Plasmodium vivax.
- **Chloroquine** is rarely used because of widespread restistance to it.

#### **Insect repellents and insecticides**

- DEET is an excellent insect repellent designed to be applied directly to exposed skin. For infants (>2 months) and small children, the strength should be limited <30%.
- Permethrin is a repellent and insecticide that will not adhere to skin, but which works well applied to clothing. It creates a kill zone that will last several days. It is commonly appled to tents and mosquito netting to help create an insect-free area, and is safe for all ages.



Picardin is an insect repellent that works on mosquitoes, ticks, and chiggers. It is a synthetic compound first made in the 1980s that resembles the natural compound piperine, which is found in the group of plants that are used to produce black pepper, and has been available in the US since 2005. It is considered to be as equally effective as DEET, but is less oily, odorless, and not as much is absorbed through the skin; it is considered safe for all ages.

#### **Clothing and Behavior**

**Tick-Checks** 

- Wear protective clothing, long-sleeve shirts and long pants to minimize skin exposure.
- Use clothing treated with permethrin.
- Move inside at dusk (when many blood-sucking insects emerge to feed).
- Sleep under mosquito netting impregnated with permethrin.

#### Do tick-checks often. When you stop to eat, you should also take the time to check for ticks. Remember that they like to embed themselves in areas where it is dark and moist—so you may need a mirror or close friend to properly check for ticks. If you remove an embedded tick. you should take doxycycline 200mg, by mouth, once, to prevent tickborne illness, especially Lyme Disease. Know



Duct tape: wrap several feet around a p	enc
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Small multi-too
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Safety pins: several sizes

## Traveler's Med Kit

(to avoid security hassles, put the kit in your checked luggage)

Diphenhydramine (allergies)

Meclizine (motion sickness)

Bactrim DS, Cipro, Doxycyline (antibiotics)

NSAIDS (aspirin, ibuprofen, for aches and pains)

Tweezers (tick removal)

Potable Aqua tablets (water purification)

Povidone Iodine (disinfectant)

Sunscreen (including zinc oxide cream)

Small knife

Mole Foam and athletic tape (for blisters)

Disinfectant wipes

Headlamp

the signs and

Long-sleeve shirts, long pants (tucked into your

socks), closed, sturdy footwear, and everything

treated with permethrin, will go a long way in

minimizing tick exposure.

symptoms of

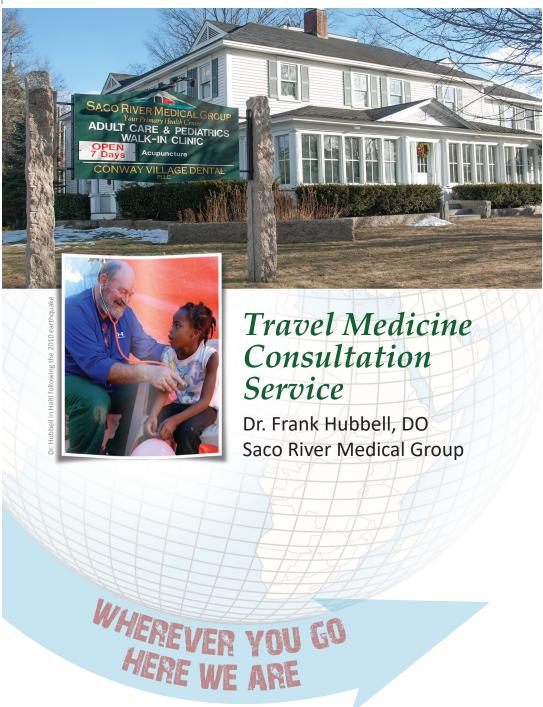
Lyme Disease.











7 Greenwood Ave., Conway, NH 03818 | 603-447-3500 | sacodocs.com

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