

# Health Guidelines

## CHINA

### GENERAL INFORMATION

To protect your health in China, you need certain pre-departure immunizations followed by reasonable health precautions while in the country. The following health guidelines and requirements are based on years of experience and the current recommendations from the US Centers for Disease Control and Prevention. It is designed to inform you of health concerns that may be present in China especially as you venture to smaller cities off the usual tourist track, or spend time in small villages and rural areas for extended periods. Although no information sheet can address every conceivable contingency, the following health guidelines and requirements are an attempt to provide you with a standard, which if followed, should optimize good health during your stay abroad.

You may find that local customs and practice, as well as varying US physicians' approaches, at times conflict with these guidelines. It is essential that you review these health guidelines and requirements with your physician, to discuss individual issues such as pre-existing medical problems, mental health status, and / or allergies to particular drugs. Any further questions or concerns should be directed to the US Centers for Disease Control and Prevention (CDC) in Atlanta (Web site <http://www.cdc.gov/travel>) or your own physician.



### PREVENTION OF INSECT-BORNE ILLNESS

#### Insect precautions

Insect precautions are recommended for this program. The CDC offers a number of suggestions on how to decrease the likelihood of insect bites, and thus avoid contracting some of the illnesses outlined below. Some suggestions include:

- Wearing long-sleeve shirts and pants in areas / times of day that are more mosquito prone
- Using an appropriate bug repellent. The CDC recommends DEET, Oil of Lemon Eucalyptus (OLE), and / or Picaridin.
- Use Permethrin treated clothing

**Malaria** is not a concern for the scheduled destinations of the program. While malaria exists in rural areas of Hainan and Yunnan provinces, there is no evidence of transmission on the popular tourist rural sites.

If, in spite of adherence to these preventive measures, you develop symptoms of malaria, prompt medical attention lessens the severity of the illness.

#### Dengue

This is a viral disease and is transmitted by

mosquitoes which bite primarily in the daytime. Low risk occurs mainly in the southern provinces of China including Yunnan and can occur in urban as well as rural areas. There is no licensed vaccine against it, but precautions to avoid mosquito bites should be taken. Insect repellents, protective clothing such as long-sleeved shirts and long pants, and the use of mosquito netting are of help. The disease causes considerable discomfort, but is self-limited.

### Japanese Encephalitis

This disease is a viral infection affecting the brain, which occurs in rural agricultural areas, primarily during the rainy season (March-November) in Yunnan, and is passed by mosquitoes mainly during the evening hours. A vaccine, which is helpful in prevention, is currently licensed in the United States. All travelers should follow personal protective measures to avoid mosquito bites (see under malaria section).



## PREVENTION OF FOOD- AND WATER-BORNE ILLNESSES

### Diarrhea-Producing Infections

“Traveler’s diarrhea” (拉肚子) is the most common form of diarrhea in China. This is a self-limited diarrhea lasting from a few to several days, characterized by watery, non-bloody bowel movements. Traveler’s diarrhea usually requires no treatment other than fluid replacement including ORS (World Health Organization’s Oral Rehydration Solution which comes in package form) or other home-made solutions such as: 1 teaspoon salt, 1/2 teaspoon baking soda, and 2–3 tablespoons sugar or

honey in 1 liter of **clean** water; another option is carbonated soda diluted by one half. Antidiarrheals such as Imodium or Lomotil may be used short-term in some circumstances. Pepto Bismol in large amounts and certain antibiotics (doxycycline, sulfam-TMP, ciprofloxacin) can prevent or attenuate the infection. Antibiotics are indicated for more severe cases of traveler’s diarrhea.

More protracted and disabling diarrheal illnesses may be due to giardiasis and amoebic dysentery (caused by parasites) and bacillary dysentery (caused by bacteria), including cholera and typhoid. These infections (as well as “traveler’s diarrhea”) are caused by contaminated food and water. Therefore, the best way to avoid such infections is to respect certain do’s and don’ts:

**DO WASH** your hands scrupulously with non-contaminated water and soap before eating and snacking.

### DO DRINK

- Bottled or canned beverages (water, soda, soft drinks) from a trusted source (ensure caps are sealed).
- Hot beverages (coffee, tea).
- Water that reached a rolling boil for at least one minute at sea level (longer at higher altitudes).
- Carbonated mineral water.

### DON’T DRINK

- Tap water, even in ice; don’t risk using it for brushing your teeth either.
- Tap water in larger cities is often safe, but the water in rural areas is probably not, so be sure to check with a reliable source before using, and if in any doubt, take all the recommended precautions.

### DO USE

- Commercial iodide or tinctured liquid iodine to treat water, **ONLY** if bottled water (from a

trusted source) is not available and boiling water is not possible. Chlorine in various forms is less reliable than iodine. These provide substantial protection when added to tap water.



### DO EAT

- Cooked vegetables, fruits with thick covering (citrus, bananas, and melons); and well-washed raw fruits and vegetables.
- Meat or fish that is thoroughly cooked (pork and lamb should be very well done).
- Pasteurized dairy products from large commercial dairies.

### DON'T EAT

- Unwashed or unpeeled raw fruits and vegetables.
- Fruits that do not have a thick, disposable outside covering.
- Rare or raw meat or fish or shellfish.
- Dairy products from small, independent vendors without pasteurizing facilities, including food of any kind that has been left out in the sun, especially custards, creams, and mayonnaise.
- Raw (unpasteurized) milk or milk products. Tuberculosis and brucellosis, both serious diseases are transmitted in this way, so the consumption of unpasteurized milk and milk products should be strictly avoided.

There may be times when refusing an offer of food or beverage, even a drink with ice or avoiding a salad, will be considered rude. You must decide for

yourself, but polite refusals, thought out in advance, are often handy. Discuss these alternatives with your Academic Director(s).

### Hepatitis A

Hepatitis A is a highly contagious virus that causes liver inflammation. It is most commonly spread through contaminated food and water. Most Americans have not previously been exposed to the hepatitis A virus and are at risk of contracting the disease during travel to areas where the disease is prevalent. A very effective vaccine is available and should be administered 2–3 weeks prior to travel.

### Typhoid Fever

Typhoid is an infection caused by a particular species of the salmonella bacterium. It is spread by contaminated food and water. Symptoms include fever, severe toxicity, rash, and in about half the cases, bloody diarrhea. Untreated, there is a 30% mortality rate. Vaccines are 60–70 % effective in prevention. One vaccine involves a single injection, with immunity lasting 2 years. A second one is administered orally every other day for 4 doses, and lasts 5 years. Antibiotic resistance has been developing, but treatment of the disease with certain well-known antibiotics is usually effective. As with all diarrheal illnesses, careful dietary discretion continues to be the main line of defense.

### Schistosomiasis (bilharzia)

This illness is acquired by contact with fluke-like parasites, which live in fresh-water snail hosts and can penetrate the skin of people and animals causing serious illness. This is known to be present in lakes, surrounding marshlands and mountainous regions of Sichuan and Yunnan provinces in China. There is at present no chemoprophylaxis or immunization for this, but it can be avoided by following these guidelines:

- **DO NOT SWIM OR WADE IN FRESH WATER.**
- Heat bathing water to 50°C (122°F) for 5 minutes (if using untreated water that comes directly from a freshwater source such as canals, lakes, rivers, streams or springs). This will destroy the parasites. Iodine treatment

alone *will not guarantee* that water is safe and free of all parasites.

- Properly chlorinated water that is piped into homes, chlorinated pools and salt water are generally safe from infectious diseases.
- If accidental exposure to suspected water occurs, immediate and vigorous towel drying or rapid application of rubbing alcohol to exposed areas may reduce the risk of infection.

If you suspect that you are infected, contact a doctor or hospital *immediately* and obtain urine and stool tests. If you do test positive, Praziquantel is the treatment of choice.



## OTHER ILLNESSES

### Rabies

Rabies is a viral disease almost always caused by animal bites (especially dogs). Risk occurs in China and, therefore, you should take measures to prevent it. Given the serious danger posed by rabies as a uniformly fatal disease, follow these important guidelines:

- Consider pre-exposure immunization (if available).
- Avoid bites from all animals and especially avoid handling or feeding puppies, kittens, monkeys or other animals. They can have rabies before it is obvious.
- If you have been bitten or have had direct contact with the saliva of a suspected rabid animal, immediately wash the affected area with a soap solution and running water thoroughly minutes to neutralize and to rinse out the virus. ***Then proceed immediately for post-exposure treatment***, the sooner the better; depending on the location of the bite, you may have little time.

- If at all possible, the animal should be captured and kept under cautious surveillance until the diagnosis and therapy are completed. If capture is not possible, a clear description of the animal and the circumstance of contact should be carefully recorded.

### Tuberculosis

Tuberculosis (TB) is a bacterial disease spread by airborne droplets from a person with untreated pulmonary TB or by ingestion of TB-contaminated unpasteurized milk products. Transmission is more likely in conditions of crowding and poverty. A TB skin test can indicate prior exposure to tuberculosis and is required prior to travel (unless already known to be positive). A repeat test is recommended after returning to the US even if the pre-departure test was negative.



### AIDS and Blood Supplies

AIDS is a concern worldwide. AIDS is an acquired immune deficiency that can result in life-threatening infections. The HIV virus is transmitted by way of bodily fluids from an infected person. Other potential routes of infected blood transmission such as tattooing, body piercing and needle sharing must be strictly avoided.

### Hepatitis B

Hepatitis B is a serious and often chronic viral infection of the liver. Since this type of hepatitis is most often acquired from contact with infected

blood, or sexual contact (as with HIV), or from skin-to-skin contact of mutual open cuts and sores, appropriate precautions to avoid these types of exposure are necessary. This includes avoiding tattooing, ear/body piercing, and cuddling children with sores and draining insect bites. A series of three immunizing injections is recommended. This series should be initiated as early as possible so that at least two doses are taken prior to departure. This will provide partial protection. The third shot should be taken five months after the second dose, and may be given after returning home to achieve full, long-lasting immunity. An accelerated schedule can also be used as an alternative.

### **Air Quality**

Students with a history of asthma or allergies should be warned that air pollution in all major cities is steadily worsening, resulting in an increasing incidence of respiratory illness. Asthmatics should carry emergency medicines for severe asthma attacks and consider packing smog masks.

### **Hand-Foot-Mouth Disease**

This very unpleasant and highly contagious viral disease occurs throughout the year, but peaks between May and July. It usually begins with a fever, malaise and sore throat, followed by painful blisters on the mucous membranes of the mouth and tongue, and also on the hands and feet. It usually resolves within a week but is very uncomfortable. It is highly contagious and is particularly common among children. Frequent hand washing is in order especially after contact with children or with anyone who seems to have this type of illness.

### **Avian Influenza A H5N1/ H7N9**

The Avian Influenza, a particularly virulent strain of influenza virus, is endemic in birds and poultry. Sporadic human cases have occurred after direct contact with birds or poultry. The last human cases were reported in November 2016. The risk to travelers is minimal, but it is important to avoid poultry farms and live bird and animal markets.

Well-cooked chicken served hot is safe to eat but travelers should avoid consumption of poultry in affected areas. Current influenza vaccines are not protective. The anti-viral medicine oseltamivir (Tamiflu) is effective against this virus.

Read more on Avian Flu Precautions:

[http://www.sit.edu/SSA Health document/Avian Flu Preparedness.pdf](http://www.sit.edu/SSA_Health_document/Avian_Flu_Preparedness.pdf)



### **IMMUNIZATIONS FOR CHINA**

Immunizations fall under two categories: 1) those that are required for The Experiment admission and 2) those that are recommended to protect your health and well-being by building up your immune defenses against specific prevalent diseases. In addition, certain basic immunizations are required by US law.

In the case of China, no immunizations are required for entry into the country from the US, or into the US from China. However, several are strongly recommended to protect your own health, or may even be required if you are visiting other countries just before or after visiting China.

Plan ahead at least 7 weeks, as laid out in the schedule at the end of these instructions--since some require more than one dose for effectiveness. The physician administering the inoculations should record all immunizations on the International Certificate of Vaccination or Prophylaxis (ICVP, also known as the WHO card). The WHO card should be

kept with you at all times while in the host country.  
***If for some reason you are unable to obtain a WHO card or your WHO card is lost it will be sufficient to carry a copy of your immunization record with you.***

**Required (for participation in program):**

- **MMR (Measles, Mumps, Rubella):** You will need to be immunized if you have not had 2 doses of live measles vaccine.
- **Tetanus, Diphtheria, and Pertussis:** The primary child series is required. Boosters (Td or Tdap) are effective for 10 years. If you are uncertain when you had your last injection, we recommend that you get another booster.

**Recommended (as a health precaution - consult your physician):**

- **Japanese Encephalitis:** This is given as a 2-dose series. The second dose should be given at least 1 week before departure. Certain conditions apply-see section on Japanese Encephalitis.
- **Hepatitis A:** Hepatitis A vaccine, which provides long-term immunity, is recommended.
- **Hepatitis B:** A series of 3 immunization injections is required. See section on Hepatitis B.
- **Influenza:** Influenza vaccine should be considered for any individual wishing to decrease risk of influenza or non-specific respiratory illness- especially those who are at high risk for complications from influenza including those with asthma, COPD, diabetes, chronic cardiovascular disease and immunocompromised conditions.

- **Rabies:** Follow carefully the special instructions in the section on Rabies.
- **Typhoid:** This vaccine is strongly urged as a viable protective measure. The vaccine is given either orally or by injection. Discuss the relative merit of each with your doctor.

For your own comfort and protection, do not leave shots to the last minute!

With reasonable attention to health and hygiene rules, your stay in China should be a healthy one. Aside from minor ailments due to adjustments to the new food, water and climate, this is the experience of the large majority of Experimenters. We do, however, recommend you see your physician on returning to the US in order to test for any possible lingering infection contracted overseas.

**Take good care of yourself!**

