

HEALTH GUIDELINES



& REQUIREMENTS

Peru: Indigenous Peoples and Globalization



SIT

Study
Abroad

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GENERAL INFORMATION

To protect your health in Peru, 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. They are designed to inform you of health concerns that may be present in Peru 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 and allergies to specific drugs. Any further questions or concerns should be directed to the US Centers for Disease Control and Prevention (CDC) in Atlanta (www.cdc.gov/travel) or to your own physician.



SIT Study Abroad programs may venture off the usual tourist track. Pay careful attention to health and safety guidelines.

PREVENTION OF INSECT-BORNE ILLNESSES

Malaria

Malaria is not a problem in Cuzco city, Macchu Picchu, and most scheduled program destinations, so prophylaxis is not needed. Malaria however, is a risk in the Peruvian Amazon (an 8-day program excursion). You are also at potential risk when at lower altitudes (below 2,000m/6,600 ft.). If you plan on doing your ISP in a malaria area and especially during your excursion to the Amazon, you must protect yourself! CDC guidelines suggest that prevention of malaria is possible if you carefully follow personal protective measures as described below and take one of the following antimalarial drugs (listed alphabetically) as directed by your health care provider: atovaquone/proguanil (Malarone), doxycycline, mefloquine, or tafenoquine (Arakoda). G6PD testing is required prior to tafenoquine use. **The selection should be discussed with your physician or health-care provider.** If, in spite of adherence to these preventive measures, you develop symptoms of malaria, prompt medical attention lessens the severity of the illness.

Personal Protective Measures

The following insect precautions should be followed, especially after dark, to prevent mosquito bites that may transmit malaria:

- Wear long-sleeved shirts and long pants.

- Use insect repellents on bedding and netting. (e.g. permethrin – commonly known as Permanone).
- Use insect repellents on skin and clothing. DEET-containing products (e.g. Off, Off Deep Woods, Jungle Juice, and Muskol) may be used on skin in concentrations up to 30–40% and on clothing in higher concentrations. Permethrin (Permanone) may also be used on clothing.

SIT Study Abroad suggests that if you have further questions, do not hesitate to contact the Malarial Division of CDC at 888-232-3228 for recorded information or visit the CDC website: <http://www.cdc.gov/malaria/travelers/index.html>

Dengue

This is a viral disease and is transmitted by mosquitoes which bite primarily in the daytime. It occurs in urban as well as rural areas. Low risk exists in Lima and Cuzco. There is no licensed vaccine against it, but personal protective measures against mosquito bites are effective in prevention. Insect repellents, protective clothing such as long-sleeved shirts and pants, are therefore essential. The disease causes considerable discomfort (fever, body aching), but is self-limited in adults.

Yellow Fever

This is a viral disease transmitted by mosquitoes that occurs only in parts of Africa and South America. Yellow fever is characterized by severe hepatitis with fever. It may be prevented by avoiding mosquito bites (personal protective measures) and by getting the vaccination shots that are available at any yellow fever vaccination center (consult your physician for the nearest center).

Chikungunya

Chikungunya is an arboviral infection that is transmitted by day-biting *Aedes* mosquitoes. It is prevalent in tropical Africa and Asia, parts of Central and South America, and the Caribbean. Low risks exist throughout the country mainly in elevations below 2,300 m (7,500 ft) especially in areas east of the Andes Mountains and Tumbes and Piura regions. Symptoms are typically fever and joint pain. There is no licensed vaccine against it, but insect precautions and personal protective measures (especially during peak times (early morning and late afternoon) are the main prevention strategy.

Zika

Zika is a viral infection that is also transmitted by the bite of the *Aedes* mosquitoes. Symptoms include mild fever, rash, conjunctivitis (red eyes), joint or muscle pain and headache. The disease causes considerable discomfort, but is mild and self-limited, lasting for several days to a week. Low risk exists at elevations below 2,300m (7,500 ft); including the Amazonas.

There are no vaccines or medications available to prevent or treat Zika infections therefore students should be vigilant in using insect precautions and personal protection measures against day-biting mosquitoes (see insect precautions section above).

CDC recommends that pregnant women consider postponing travel to countries where the Zika virus is prevalent.

Leishmaniasis

Leishmaniasis is a protozoan infection that causes skin ulcers and is transmitted by the bite of sand flies. It occurs in the jungle regions. Daytime and nighttime insect precautions are important in Peru.



PREVENTION OF FOOD- AND WATER-BORNE ILLNESSES

Diarrhea-Producing Infections

“Traveler’s diarrhea” is the most common form of diarrhea in Peru. 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 (the World Health Organization’s oral rehydration solution which comes in package form) or other homemade solutions such as I

teaspoon salt, 1/2 teaspoon baking soda, and 2–3 tablespoons sugar or honey in 1 liter of **clean** water; or 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, sulfa-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).

A note on swimming: Avoid swimming or wading in fresh water. Many parasites and bacteria live in water and can cause serious illness. Properly chlorinated pools and salt water are generally safe from infectious diseases.

Leptospirosis

This is a bacterial infection caused by the *Leptospira* bacteria. The disease is spread through direct contact with the urine, blood or tissue from infected animals or rodents or through water, soil, or food contaminated with their urine. It's most common in warm climates. Travelers who come in contact with the disease may

experience symptoms of high fever, headache, bleeding, muscle pain, chills, red eyes, and vomiting. Without treatment, leptospirosis can lead to kidney and liver damage and even death. This disease is treated with antibiotics (doxycycline, penicillin) to clear the infection.

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 more 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.



OTHER ILLNESSES

Altitude

Cuzco the program base is at 11,000 feet. Even healthy, athletic individuals may become ill at altitudes over 10,000 ft. Common symptoms are unbearable headache

and severe shortness of breath out of proportion to the mild fatigue most people experience while becoming acclimatized. Ascending gradually and resting during the first 12-24 hours can minimize the risk of altitude sickness. You may also wish to consult your physician about obtaining some acetazolamide (Diamox). Note that this is contra-indicated for those allergic to sulfa drugs and that this possibility should be discussed with your physician. Also note that alcohol and sedatives may have greater effect at high altitudes.

Any symptoms of severe altitude illness should result in *immediate* descent. Individuals with chronic heart and lung disorders, such as asthma, and any other preexisting medical condition including sickle cell or diabetes should consult a physician before traveling to high altitudes. If your physician has given approval for high altitude travel, do let us know about the condition so that we can advise the Academic Director(s) and our local doctors accordingly. Also bring full medical notes with you to help local doctors in case of need.

Rabies

Rabies is a viral disease almost always caused by animal bites (especially dogs and bats). Risk occurs in Peru 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 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 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 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 recommended prior to travel (unless already known to be positive). A repeat test is also recommended after returning to the US even if the pre-departure test was negative.

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, sexual contact (as with HIV), or skin-to-skin contact of mutual open cuts and sores, appropriate precautions to avoid these types of exposure are necessary. This includes avoiding getting tattoos, or ear/body piercings and avoiding cuddling children with sores or 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.

HIV/AIDS and Blood Supplies

HIV/AIDS is a concern worldwide. The HIV virus is transmitted by way of bodily fluids from an infected person. HIV is spread mainly by having anal or vaginal sex or sharing drug injection equipment with a person who has HIV. AIDS is an acquired immune deficiency that can result in life-threatening infections and is the most advanced stage of the HIV infection. It is the student's responsibility to protect him /herself from acquiring the disease through sexual transmission. Students anticipating even the possibility of sexual activity are strongly urged to bring their own condom supply. Other potential routes of infected blood transmission such as tattooing, body piercing and needle sharing must be strictly avoided.

With regard to blood transfusions, our Academic Directors have identified hospitals, through consultation with the local US embassy, where safe blood is available. In a life-threatening situation, the risks versus benefits of an emergency blood transfusion must be examined

carefully and a decision made based on the best information at hand.



IMMUNIZATIONS FOR PERU

Immunizations fall under two categories: 1) those that are required for SIT Study Abroad 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.

Please note: Yellow fever immunization is required by Peruvian law for travel to the Amazonas (an excursion destination).

Plan ahead at least 8 weeks, as laid out in the sample schedule at the end of these instructions since some immunizations require more than one dose for

INTERNATIONAL CERTIFICATE OF VACCINATION
AS APPROVED BY
THE WORLD HEALTH ORGANIZATION
CERTIFICAT INTERNATIONAL DE VACCINATION
APPROUVE PAR
L'ORGANISATION MONDIALE DE LA SANTÉ

TRAVELER'S NAME—NOM DU VOYAGEUR
ADDRESS—ADRESSE (Number—Numéro) (Street—Rue)
(City—Ville)
(County—Département) (State—État)

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE
PHS-731 (REV.11-91)

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.

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, 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 another booster.
- **Yellow fever:** Yellow fever vaccination is not required for entry into Peru directly from the US however; it is required by Peruvian law for travel to the Amazonas (an excursion destination).

RECOMMENDED (as a health precaution - consult your physician):

- **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.
- **Typhoid:** This vaccine is strongly urged as a viable protective measure. The vaccine is given either orally or by injection. Discuss the relative merits of each with your doctor.
- **Hepatitis A:** Hepatitis A vaccine, which provides long-term immunity, is recommended.
- **Hepatitis B:** A series of 3 immunization injections is recommended. See section on Hepatitis B.
- **Rabies:** Follow carefully the special instructions in the section on rabies.

SAMPLE IMMUNIZATION SCHEDULE FOR PERU

To assist your planning, we suggest the following schedule for required and recommended immunizations. For your own comfort and protection, do not leave shots to the last minute!

Before the start of program	Immunizations
8 weeks	Yellow fever First rabies pre-exposure
7 weeks	Second rabies Influenza
5 weeks	Typhoid (injection or oral) Third rabies
3 weeks	Hepatitis A vaccine Tetanus (Td, Tdap) booster
1 week (before entering a malaria zone)	Start weekly malaria prophylaxis (if using mefloquine)
1-3 days (before entering a malaria zone)	Start daily dose of malaria prophylaxis (if using doxycycline or Malarone); Start weekly malaria prophylaxis (if using tafenoquine)

With reasonable attention to health and hygiene rules, your stay in Peru 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 SIT Study Abroad students. 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!