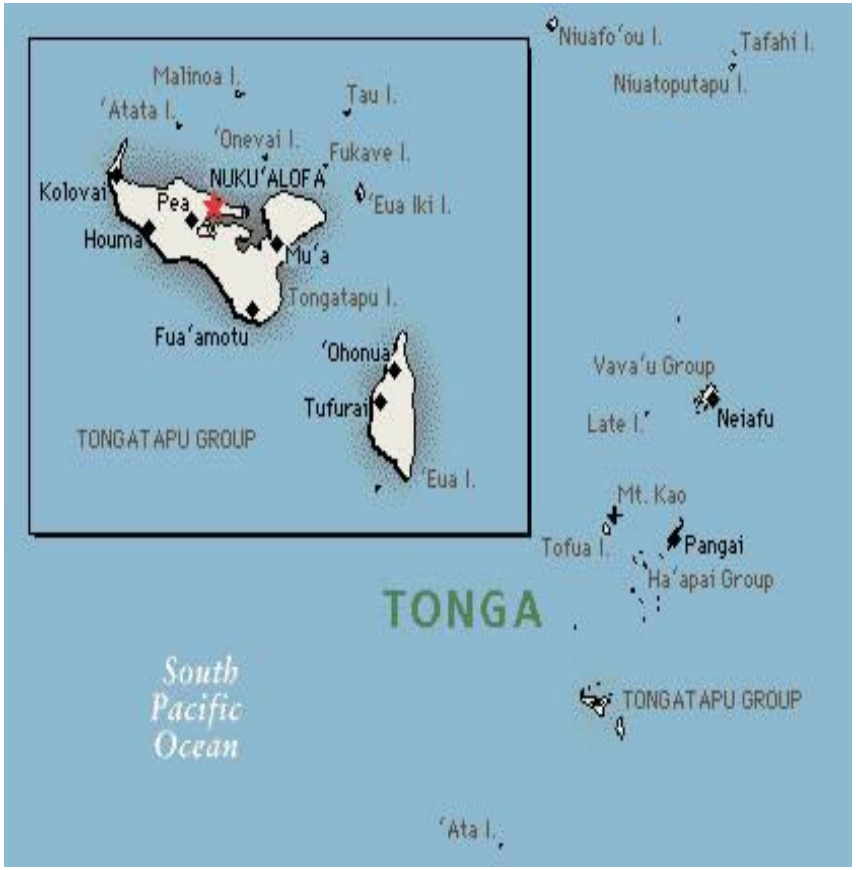
UNCLASSIFIED

Force Health Protection Brief

Tonga



23 JUL 2010

FORCE HEALTH PROTECTION

Tonga

Historical diseases present in area: Diarrheal diseases, Typhoid, Dengue Fever, Measles, Ciguatera Fish Poisoning, and Tuberculosis (TB)**.**

Recent Disease Reports: Travelers' Diarrhea**,** TB, Leptospirosis, Measles, Ciguatera Fish Poisoning, and Dengue Fever.

Force Health Protection Requirements: Up-to-date immunizations, insect precautions, use approved food and water sources. Tonga is considered malaria and rabies free.

Medical infrastructure: Hospitals are not equivalent to Western standards. For severe illness or injuries utilize Commander 7th Fleet Annex "Q" requirements for medical treatment.

Environmental Hazards: Avoid congested areas due to TB and avoid local seafood (grouper, snapper, amberjack, and barracuda) as Ciguatera Fish Poisoning may be present, even in well-cooked fish.

Assessment: Mild health risk to operational forces.

23 JUL 2010

Required Health Measures

- Immunizations
- Mosquito & insect bite prevention
- Pre-mission health assessment
  - Include pre- and post-visit Tuberculosis (TB) screening test if staying for more than 3 months (more than 1 month if in close contact with local populace)
- Obtain personal medication

Required Immunizations

- Start vaccinations early to accommodate vaccines that require several doses within a series
- Mission-specific:
  - Hepatitis B*/**
  - Typhoid
- Routine:
  - Tetanus/diphtheria
  - Measles (MMR)
  - Polio
  - Varicella (chicken pox)
  - H1N1 Influenza
  - Seasonal Influenza
  - Hepatitis A

* Required for health care providers

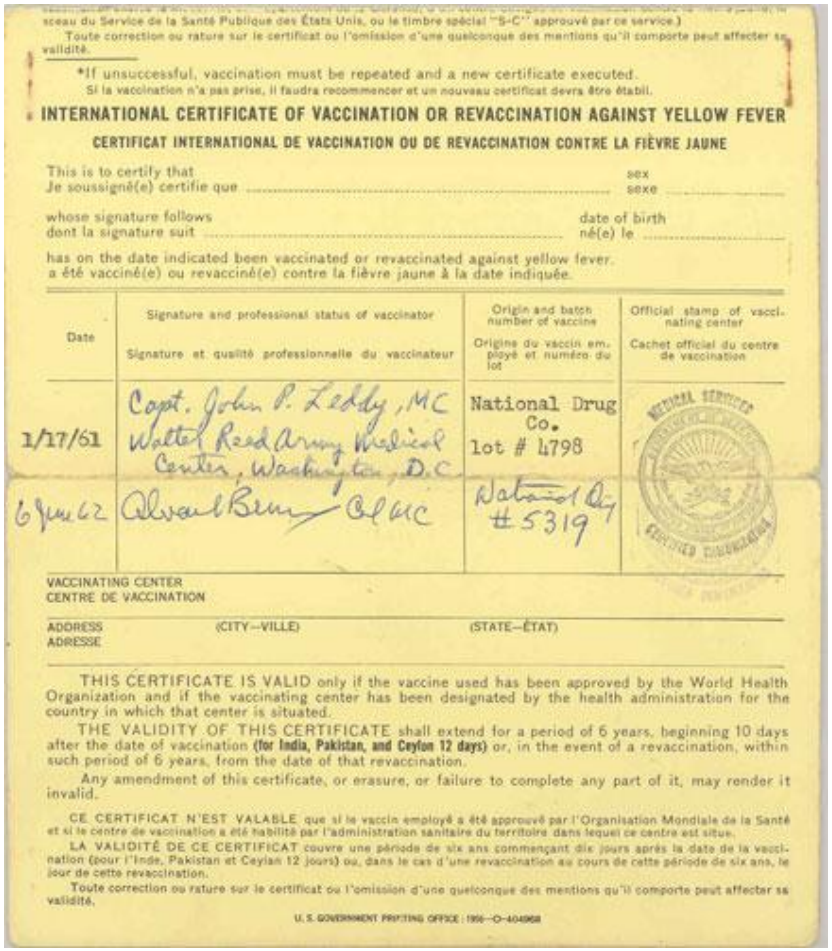
** For high risk groups only – obtain specific guidance

FORCE HEALTH PROTECTION

Tonga Entry Requirements

- **Although yellow fever is not a disease risk in Tonga, the government requires travelers > 1 year of age arriving from countries where Yellow Fever is present (see guidance for countries in Africa, Central and South America) to present proof of yellow fever vaccination.**

- **Example of Yellow Fever card.**



sceau du Service de la Santé Publique des États Unis, ou le timbre spécial "S-C" approuvé par ce service.)
Toute correction ou rature sur le certificat ou l'omission d'une quelconque des mentions qu'il comporte peut affecter sa validité.

*If unsuccessful, vaccination must be repeated and a new certificate executed.
Si la vaccination n'a pas prise, il faudra recommencer et un nouveau certificat devra être établi.

INTERNATIONAL CERTIFICATE OF VACCINATION OR REVACCINATION AGAINST YELLOW FEVER

CERTIFICAT INTERNATIONAL DE VACCINATION OU DE REVACCINATION CONTRE LA FIÈVRE JAUNE

This is to certify that ..... sex
Je soussigné(e) certifie que ..... sexe .....

whose signature follows ..... date of birth
dont la signature suit ..... né(e) le .....

has on the date indicated been vaccinated or revaccinated against yellow fever.
a été vacciné(e) ou revacciné(e) contre la fièvre jaune à la date indiquée.

Date	Signature and professional status of vaccinator Signature et qualité professionnelle du vaccinateur	Origin and batch number of vaccine Origine du vaccin employé et numéro du lot	Official stamp of vaccinating center Cachet officiel du centre de vaccination
1/17/61	Capt. John P. Leddy, MC Walter Reed Army Medical Center, Washington, D.C.	National Drug Co. lot # 4798	MEDICAL SERVICES
6 Jun 62	Alvard Berry CPT MC	National Dy #5319	

VACCINATING CENTER
CENTRE DE VACCINATION

ADDRESS (CITY—VILLE) (STATE—ÉTAT)
ADRESSE

THIS CERTIFICATE IS VALID only if the vaccine used has been approved by the World Health Organization and if the vaccinating center has been designated by the health administration for the country in which that center is situated.

THE VALIDITY OF THIS CERTIFICATE shall extend for a period of 6 years, beginning 10 days after the date of vaccination **(for India, Pakistan, and Ceylon 12 days)** or, in the event of a revaccination, within such period of 6 years, from the date of that revaccination.

Any amendment of this certificate, or erasure, or failure to complete any part of it, may render it invalid.

CE CERTIFICAT N'EST VALABLE que si le vaccin employé a été approuvé par l'Organisation Mondiale de la Santé et si le centre de vaccination a été habilité par l'administration sanitaire du territoire dans lequel ce centre est situé.

LA VALIDITÉ DE CE CERTIFICAT couvre une période de six ans commençant dix jours après la date de la vaccination (pour l'Inde, Pakistan et Ceylan 12 jours) ou, dans le cas d'une revaccination au cours de cette période de six ans, le jour de cette revaccination.

Toute correction ou rature sur le certificat ou l'omission d'une quelconque des mentions qu'il comporte peut affecter sa validité.

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FORCE HEALTH PROTECTION

POINTS OF CONTACT

- International SOS/TRICARE Operations Coordinator
  - Tel: +65-6338-9277 (Singapore)
  - Email: tricarelon@internationalsos.com

- TRICARE Area Office - Pacific
  - COMM: 011-81-6117-43-2036
  - Email: james.marron@med.navy.mil
  - Website: www.tricare.mil/contactus/

- United States Naval Forces Seventh Fleet Surgeon Liaison Officer
  - COMM: 808-653-2121
  - DSN: 315-453-2121
  - Email: leticia.macias@c7f.navy.mil

FORCE HEALTH PROTECTION

Food & Water

<u>Avoid</u>:

Food stands

Fruits & veggies (unless peeled/cooked)

Raw meat or fish

Drinking water other than bottled

Local lakes/ponds

FORCE HEALTH PROTECTION

Personal Hygiene

<u>Frequency:</u> 5 times/day

<u>Timing:</u>

BEFORE eating

BEFORE smoking

AFTER bathroom

FORCE HEALTH PROTECTION

Avoiding Insect Bites

- Cover up
  - Long sleeves/pants
- Insect repellent
  - Permethrin
  - DEET
- Sleeping
  - Keep bugs OUT
  - Bed nets, window screens

FORCE HEALTH PROTECTION

Dengue and Dengue Hemorrhagic Fever

- **Causative Agent:** Virus (*Flavivirus*).
- **Transmission:** Bites of *Aedes* mosquitoes which are day biters.
- **Symptoms:** Fever, severe headache, backache, joint pains, nausea, vomiting, eye pain and rash.
- **Treatment:** Symptomatic treatment.
- **Prevention:** No vaccine available. Use insect skin repellent (DEET), permethrin treated bed nets/clothing, and use insecticides.

Vector-borne Disease: Countermeasures

INSECT REPELLENTS FOR SKIN AND CLOTHING

DEET lotion

NSN 6840 -01-284-3982

- Apply a thin coat to EXPOSED skin
- One application lasts up to 12 hours

Permethrin

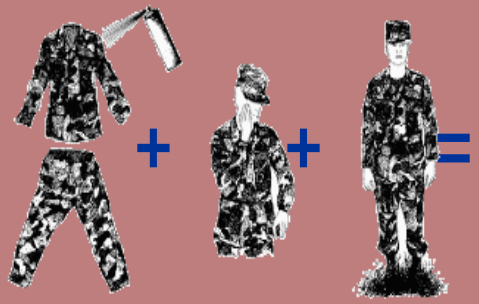
- Individual Dynamic Absorption Kit (IDA)
- Treatment lasts for for over 50 launderings

NSN 6840-01-345-0237

NSN 6840-01-278-1336

- Aerosol spray can
- Treatment lasts through 5-6 washes

PERSONAL PROTECTIVE MEASURES



Permethrin On Uniform + DEET On Exposed Skin + Properly Worn Uniform = MAXIMUM PROTECTION

DOD Insect Repellent System

YOU NEED TO KNOW …
Dry cleaning removes permethrin from the uniform

FORCE HEALTH PROTECTION

Travelers' Diarrhea

- **Transmission:** Various; tainted food and water, poor sanitation.
- **Signs/Symptoms:** Abdominal cramping/pain, fever, and loose watery stools lasting 3-4 days.
- **Prevention:** Avoid local water, no raw or undercooked food, peel all fruits/veggies, avoid street vendors, and wash hands with soap prior to eating.
- **Treatment:** Antibiotics for bacterial infection (see health care provider) and Imodium AD (Loperamide). Do not take Imodium if you have blood in your stool.

Force Health Protection

Leptospirosis

- **Causative Agent:** Bacteria (*Leptospira spp.*).

- **Transmission:** Primary: contact with water contaminated with urine from infected animals. Secondary: exposure to contaminated soil via broken skin or contaminated food via mucosal surfaces.

- **Symptoms:** High fever, severe headache, chills, muscle aches, and vomiting. May include jaundice, red eyes, abdominal pain, diarrhea, rash, or show no symptoms.

- **Treatment:** Antibiotics.

- **Prevention:** Don’t swim or wade in water that may be contaminated with animal urine, and wear protective clothing and footwear if exposed to contaminated soil or water.

FORCE HEALTH PROTECTION

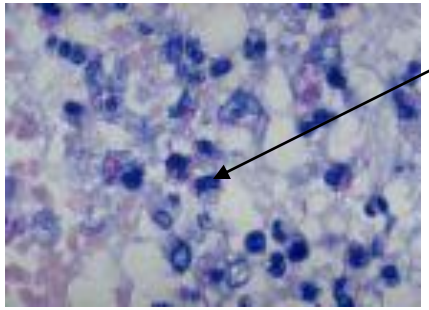
Ciguatera Fish Poisoning

- **Causative Agent:** toxins produced by marine microalgae (*Gambierdiscus toxicus).*
- **Transmission:** eating fish contaminated with the toxin (barracuda, black grouper, blackfin snapper, cubera snapper, dog snapper, greater amberjack, hogfish, horse-eye jack, king mackerel, and yellowfin grouper have been known to carry ciguatoxins).
- **Symptoms:** nausea, vomiting, and neurologic symptoms such as tingling fingers or toes. Cold things may feel hot and hot things may feel cold.
- **Treatment:** symptomatic treatment. Ciguatera has no cure. Symptoms usually go away in days or weeks but can last for years.
- **Prevention:** avoid local seafood as Ciguatera Fish Poisoning may be present in undercooked and well-cooked fish.

FORCE HEALTH PROTECTION

Tuberculosis (TB)

- **Causative Agent:** Bacteria (*Mycobacterium tuberculosis*).
- **Transmission:** Airborne droplet via respiration.
- **Symptoms:** Cough, fatigue, night sweats, fever and rapid heart rate.
- **Treatment:** Antibiotics (some strains resistant to multiple drugs) and respiratory isolation.
- **Prevention:** No vaccine available. Avoid contact with persons with active TB, congested areas, and receive annual screening (PPD).



M. tuberculosis

FORCE HEALTH PROTECTION

Sexually Transmitted Disease

HIGH RISK FOR STDs - Hepatitis B, HIV, etc.

FHP Requirements

- Avoid sexual contact.
- Use latex condoms if sexually active.
- Use Condom Sense!

*STD diseases can be transmitted by tattoo needles.

FORCE HEALTH PROTECTION

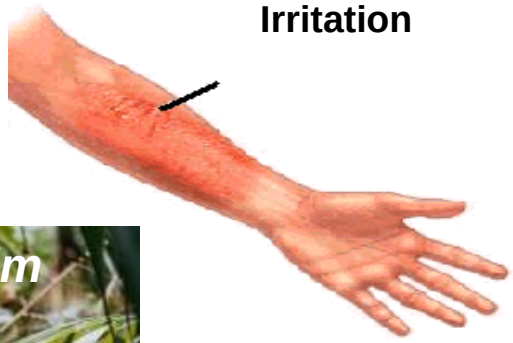
Local Animals

- **Many countries have NO rabies control programs!**
- **Do not feed or attempt to touch animals.**
- **Report bites immediately.**
- **No mascots!**

HAZARDOUS PLANTS

- Plant resins cause skin irritation
- Poisonous roots, stems, leaves, and fruit
- Weeds and stinging nettles
- Thorny shrubs and trees

Irritation



Poisonous Plants

Mucuna pruritum

Systemic Poison

Elephant's Ear Plant

Rattan Palm

Thorny Plant

Punctures and Abrasions

COUNTERMEASURES

- Avoid touching unfamiliar plants
- Use clothing as protective barrier
- Rinse skin promptly after exposure
- Wash clothing after contact
- Never eat any part of unfamiliar plant

Questions?

- **Please contact your local health care provider**

- **Navy Environmental and Preventive Medicine Unit No. 6**
  Duty Phone: 808-471-0237
  nepmu6admin@med.navy.mil

- **Navy Environmental and Preventive Medicine Unit No. 5**
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  nepmu5@med.navy.mil