

ASTMH



AMERICAN SOCIETY OF TROPICAL MEDICINE & HYGIENE
ADVANCING GLOBAL HEALTH SINCE 1903

Certificate of Knowledge in Clinical Tropical Medicine and Travelers' Health (CTropMed® Examination)

Striving for Professional Excellence in
Clinical Tropical Medicine and Travelers' Health

October 10–23, 2022

The CTropMed® Examination is being
offered globally through secure
internet-based testing sites.

Visit the list of testing
centers [here](#).



**Download Sample
Exam Questions**

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Fostering professional development in the fields of clinical tropical medicine and travelers' health is one of the Society's highest priorities. To that end, ASTMH developed the Certificate of Knowledge in Clinical Tropical Medicine and Travelers' Health (CTropMed® Examination) as a means to distinguish individuals who have demonstrated advanced knowledge and experience in these fields. The Certificate of Knowledge in Clinical Tropical Medicine and Travelers' Health is conferred on 1) licensed healthcare professionals applying via Practice Pathway or those healthcare professionals (regardless of licensure) who have passed an ASTMH-accredited Diploma Course, 2) have direct experience in the fields of tropical medicine and/or travelers' health, and 3) have passed the ASTMH Examination in Clinical Tropical Medicine and Travelers' Health.

To support this process, ASTMH accredits specific diploma courses that meet rigorous standards for excellence in clinical training developed by the Society. Successful completion of one of these courses (see page 3) prepares the individual to sit for the examination.

Established by ASTMH in 1995, the examination assesses and recognizes individual excellence in training and knowledge. Fulfilling these criteria confers eligibility for the CTropMed® examination and indicates that the candidate has achieved the ASTMH standard of excellence in knowledge and expertise in clinical tropical medicine and travelers' health.

About the Certificate of Knowledge in Clinical Tropical Medicine and Travelers' Health (CTropMed® Examination)

The eligibility requirements and examination materials are developed based on a review and analysis of the current state of medical and scientific knowledge in the fields of clinical tropical medicine and travelers' health.

Table of Contents

Requirements.	3
About the Examination	5
Applying for the Examination	5
Testing Centers	6
Test Center Admission Requirements.	7
Prohibited Items.	8
Cancellation and Rescheduling Policy.	9
Scoring	10
Examination Results.	10
Special Circumstances.	10
ASTMH's Commitment to Inclusion and Respect	11
Examination Checklist	12
Exam Committee	13

When:

October 10–23, 2022
(Select the day within this window that works best for your schedule)

Where:

1,350 testing center locations in 115 countries.
Visit the list of testing centers [here](#).

Fees:

Members, take advantage of your special rate.

ASTMH Member
Early-bird rate \$475
(\$605 after May 23)

ASTMH Nonmember
Early-bird rate \$610
(\$745 after May 23)

Who Can Apply for the CTropMed® Examination

Applicants applying via the Practice Pathway must be a licensed healthcare professional (physician, physician assistant, nurse, nurse practitioner) in the United States or Canada or the equivalent elsewhere in the world. Physicians must have an unconditional, unrestricted license to practice medicine. Nurses must have a current, unencumbered license as a registered nurse valid through the date of the examination. Applicants applying via the Diploma Course Pathway (which, in addition to the professions listed above, also includes students, paramedics, pharmacists and other allied health professionals) are eligible without a professional healthcare license but must be working in the health/public arena (see below, Diploma Course Pathway).

Q: What is required for your application to sit for the exam?

A: Completion of an ASTMH-accredited Diploma Course or Practice Pathway AND demonstrating two months of Practical Experience.

1. Through an ASTMH-accredited Diploma Course or Practice Pathway

Diploma Course

- Successful completion of an ASTMH-accredited Diploma Course in tropical medicine. The course must have been accredited at the time the diploma was awarded. Course must be completed prior to October 10, 2022.
- If more than five years have lapsed since completion of Diploma Course:
 - Applicants must provide documentation of 15 hours of continuing education credit in tropical and/or travel medicine. Include a copy of the certificate(s) of attendance issued by the continuing education provider.
- A license is not required for students and allied health professionals in healthcare professions who wish to sit for the examination and are applying via the Diploma Course Pathway; however, the ASTMH-accredited Diploma Course must be completed prior to October 10, 2022 and applicants must have relevant practical experience in clinical care, public health and clinical/field research.

Practice Pathway

- Evidence of a minimum of five years of substantial, cumulative practice experience in the field of clinical tropical medicine following completion of residency training. Substantial practice experience is defined as at least 10 percent of total professional time devoted to clinical tropical medicine in at least two of the following areas:
 1. Assessment and management of illness in persons in, or returned from, the tropics.
 2. Diagnosis and treatment of infectious diseases.
 3. Health evaluation and treatment of tropical infectious diseases.
 4. Diagnosis and management of common parasitic infections.
 5. Pre-travel health advice. Time devoted to pre-travel health advice may be used to account for no more than one-half (5 percent total professional time) of the total time required for eligibility.

Practice Pathway (continued)

- For physicians, 30 documented hours of continuing education credit in tropical and/or travel medicine within the five years prior to the application deadline. Include a copy of the certificate(s) of attendance issued by the continuing education provider.
- For nurses, 30 documented hours of continuing education credit in a related field within the five years prior to the application deadline. Include a copy of the certificate(s) of attendance issued by the continuing education provider.
- Professional healthcare license.

Cavitary lung lesions are seen in patients with tuberculosis and which of the following infections?

- ☐ (A) strongyloidiasis
- ☐ (B) paragonimiasis
- ☐ (C) ascariasis
- ☐ (D) filariasis

2. Demonstrating Two Months of Practical Experience

All applicants, whether applying via the Diploma Course or Practice Pathway, must have two months of practical experience in a developing country/tropical setting or a domestic clinical activity meaningful to clinical tropical medicine and travelers' health and/or refugee medicine. For physicians, appropriate experience obtained during medical school may be used as long as the activities took place during the clinical phase of training and they were clinically engaged. If the two months of experience has not been completed, one may still apply for the examination as long as the remaining criteria for the selected pathway is met. Upon passing the examination, ASTMH will hold certificates until documentation of two months of cumulative experience is received by the Society. To see a full list of developing countries that would qualify, [click here](#).

In demonstrating your two months of practical experience, please format overseas location(s) as shown:

Location: Arusha, Tanzania

Institution: Selian District Hospital

Duration: 8 Weeks

Dates: November – December 2010

Clinical Work: Infectious disease research, patient care, disease surveillance, etc.

Diagnoses Seen: Indicate diagnoses here

About the Examination

The examination design complies with the American Psychological Association's joint technical standards on testing and testing-industry standards.

To designate knowledge areas appropriate for testing in the examination, specialists and other experts in the fields of tropical medicine and travelers' health are surveyed. Their reports are used to develop specifications and content for the examination. Access the exam outline [here](#).

The exam consists of 200 multiple-choice questions, some of which are accompanied by diagrams or other images. Four hours are allowed to complete the examination. Each question contains four choices, with only one correct answer. The questions are developed and regularly reviewed by an ASTMH expert panel, with the assistance of [Scantron Corporation](#), a widely respected provider of high-quality testing and training for corporations, government agencies, educational institutions, and trade and professional associations.

Given the rapid changes in medical knowledge and scientific developments, ASTMH makes every reasonable effort to ensure that the examination reflects the current state of knowledge. However, it is important to note that no certificate program can guarantee medical competence, nor does this examination guarantee clinical competence.

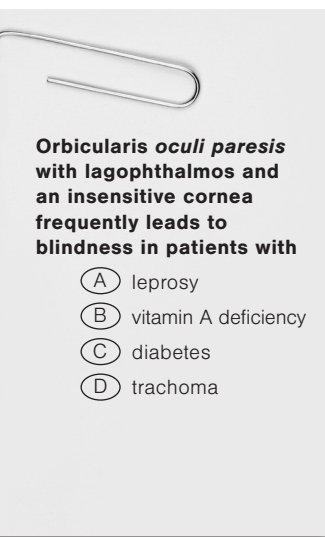
Applying for the CTropMed® Examination

Online Application

All applications and payments must be [submitted online](#) by **June 20, 2022**. Once the submission site closes, applications will no longer be accepted.

Submission Requirements:

1. Complete [online application](#) for the exam and [pay your application fee online](#) by credit card. We accept Visa, Mastercard, American Express and Discover. For additional payment options please email [Buffy Finn](#).
2. Upload: (All uploaded documents must be in English)
 - Copy of current professional healthcare license (for those applying via the Practice Pathway).
 - Description of the two months of practical experience, including institution name, location, dates, nature of clinical work and a description of common diagnoses seen at the facility (see example on page 4).



Submission Requirements (continued)

- For Diploma Course Pathway: Documentation of successfully completing an [ASTMH-accredited Diploma Course](#). If course is not completed by June 20, 2022, please submit an attestation from the Course Director including expected course completion date.
- For Diploma Course Pathway: Documentation of 15 hours of continuing education credit (only if course was completed more than five years ago).
- For Practice Pathway: Description of the clinical tropical medicine experience during a minimum of five years (limit of two pages).
- For Practice Pathway: Documentation of 30 hours of continuing education credit.

Final Reminders:

1. ASTMH collects information regarding gender and race/ethnicity. The responses are for demographic purposes only.
2. Please do not upload transcripts or curriculum vitae.
3. It is recommended that applicants save and print a copy of the completed application for their records.
4. Submit payment at the time of submitting your application.
5. Other fees:
 - If the candidate does not meet eligibility requirements or cancels their application for any reason, the candidate will receive a refund from ASTMH minus a \$95 processing fee. No refunds will be issued after September 26, 2022.
 - If the candidate has to reschedule or cancel their previously scheduled exam date, time or location, Scantron, not ASTMH, will add a \$50 rescheduling/cancellation fee payable directly to Scantron. For cancellations, this is in addition to the non-refundable \$95 processing fee assessed by ASTMH. No refunds will be issued after September 26, 2022.

Scheduling Exam Date, Time and Location

Scantron will send notification of eligibility to sit for the examination(s) and will provide a username, password and directions on how to schedule a testing session. This information will come from Scantron, not ASTMH. Testing date, time and location are filled on a first-come, first-served basis, based on test center availability. At most computer-based testing locations, morning examinations begin at 9:00 a.m. and afternoon examinations begin at 1:00 p.m. There is a \$50 rescheduling/cancellation fee from Scantron if you must change or cancel the exam, date, time or location.

Testing Centers

Scantron offers more than 1,350 test center locations in 115 countries globally. To see a list of available testing centers, please visit: <https://www.scantron.com/test-site-cities/>.

**Join ASTMH
and SAVE!**

Join now and
receive the member
rate for the CTropMed®
examination.

Attend the **virtual Update Course**

September 17-18, 2022

This two-day condensed course provides a broad overview of core topics in clinical tropical medicine and travelers' health.

**Registration will
open in June.**

Testing Center Admission Requirements

- Submit your confirmation notice (from Scantron) to the proctor at the testing center.
- Bring a current, government-issued photo identification (ID) with signature (driver's license, immigration card, passport, U.S. passport card, state ID card or military ID card). You will NOT be admitted without proper identification. Candidates who fail to provide proper identification will be considered a no-show and will forfeit exam fees.
- **Original documents** (driver's license, immigration card, passport etc.) are required. **Copies or photos of original documents will not be accepted.**
- Your **first and last name** on the confirmation notice must match the **first and last name** on your identification exactly.
- Nicknames are not acceptable.
- If you have more than one last name or a suffix listed on your government-issued photo ID, the same last names must be reflected on the confirmation notice.
- Presenting name change documentation (marriage license, etc.) at the testing center is not acceptable. Name change documentation must be submitted at least one week prior to your testing appointment if needed.
- Report to the testing center at the time indicated on your confirmation notice from Scantron.

If neither individuals nor population are treated, for how long must vector control be continued to eliminate onchocerciasis from a designated region?

- ☐ A Less than one year
☐ B Five years
☐ C 10 years
☐ D More than 10 years

General Instructions

- Cell phones are NOT permitted at the exam site. Any examination candidate with a cell phone in the exam room will be dismissed from the exam room immediately and denied re-entry.
- Smoking is NOT permitted at the exam site.
- Food and beverages are NOT allowed in the exam area.
- Personal items will NOT be allowed in the exam room and must be left outside of the exam room AT YOUR OWN RISK.
- The proctor will provide a dry erase board or scratch paper and a pencil for making notes. No items or papers may be removed from the testing center. You may NOT bring your own scratch paper, etc.
- Friends and relatives, including children, will NOT be allowed in the exam building.
- Please refrain from wearing colognes or perfumes as scents may disturb others in the testing center.
- Bring earplugs if you are sensitive to ambient noise. If you choose to bring earplugs, they will be subject to examination by the testing center staff.
- Computer-based testing facilities offer exam services to multiple agencies. There may be other individuals in the testing room with you who are sitting for exams from different organizations. The rules for their exam may be slightly different than the rules for your exam in terms of exam time and what is and is not allowed at their station.

General Instructions (continued)

- Computer-based tests are delivered via secure internet connections. Internet connections are subject to local internet providers. While it is not the norm, internet connections can, on occasion, be lost momentarily, requiring the proctor to log you back in to your exam. If you lose your internet connection, inform the proctor, who will assist you in logging back in to your exam. Upon logging back in to your exam, you will resume at the first unanswered question. Your exam time remaining will be exactly the same as it was when the internet connection was lost.
- Candidates are strictly prohibited from attempting to access any outside information, programs or websites while testing.

Excluding underlying diseases, the most common cause of death for United States citizens traveling to tropical countries is:

- (A) malaria
- (B) typhoid fever
- (C) accidental injury
- (D) homicide

Prohibited Items

Candidates are expressly prohibited from bringing the following items to the test site:

- Cameras, cell phones, optical readers or other electronic devices that include the ability to photograph, photocopy or otherwise copy test materials
- Notes, books, dictionaries or language dictionaries **(except as expressly permitted by the exam sponsor; see the Additional Examination Specific Information in your confirmation notice email if applicable)**
- Bookbags or luggage
- Purses or handbags
- iPods, mp3 players, tablets, headphones or pagers
- Calculators **(except as expressly permitted by the test sponsor; see the Additional Examination Specific Information in your confirmation notice email if applicable)**, computers, PDAs or other electronic devices with one or more memories
- Personal writing utensils such as pencils, pens and highlighters
- Google and smart glasses (any glasses with electronics)
- Watches, smart devices and other jewelry except wedding or engagement rings
- Weapons
- Medicine, including cough drops (except as expressly permitted in advance);
- Food and beverages
- Coats and jackets
- Hats, hoods or other headwear are not permitted in the examination room unless required for religious purposes. All items are subject to inspection by the proctor if suspicious behavior is detected.
- Please note that sweaters and sweatshirts without pockets or hoods are permitted to be worn.

Test Site Appointment Cancellations, Rescheduling, and No-Show Policies

The most frequently identified pathogen in tropical pyomyositis is:

- (A) a Gram-negative organism
- (B) *Staphylococcus aureus*
- (C) *Streptococcus pyogenes*
- (D) the pneumococcus

1. A candidate may cancel their testing session up to two calendar days in advance of their testing appointment.
 - The candidate must cancel their testing session through Scantron's online test scheduling system, not through ASTMH.
 - Scantron will charge a \$50 US cancellation fee to all cancellation requests made two or more calendar days in advance of the testing appointment.
 - ASTMH will charge a non-refundable \$95 processing fee for all cancellations received before September 26, 2022. No refunds will be issued after September 26, 2022.
2. A candidate may reschedule their testing session up to two calendar days in advance of their testing appointment.
 - The candidate must reschedule through Scantron's online test scheduling system, not through ASTMH.
 - Scantron will charge a \$50 US fee to all rescheduling requests made two or more calendar days in advance of the testing appointment.
3. If the cancellation or rescheduling request is made fewer than two calendar days in advance of the testing appointment, the candidate will be considered a no-show and no refunds will be given.
4. **A candidate who does not appear for their testing appointment and has not contacted Scantron to cancel or to reschedule will be considered a no-show and no refunds will be given.**
5. In the following situations and with appropriate documentation, candidates may cancel their testing appointment with fewer than two calendar days' notice:
 - Serious illness (either the candidate or an immediate family member)
 - Death in the immediate family
 - Disabling accident
 - Court appearance
 - Jury duty
 - Unexpected military call-up

However, the candidate will incur a \$50 US cancellation fee from Scantron. Candidates requesting an emergency cancellation must notify ASTMH and Scantron and provide appropriate documentation no later than five business days after the scheduled testing appointment.

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Update Course**

September 17-18, 2022

This two-day condensed course provides a broad overview of core topics in clinical tropical medicine and travelers' health.

**Registration will
open in June.**

Scoring

The passing score is set by a national panel of experts in tropical medicine and travelers' health. Each question is reviewed by a respective expert. An informed judgment is made as to what percentage of minimally competent tropical medicine specialists would answer each question correctly. This deliberative and thoughtful process establishes a minimum level of knowledge expected of passing candidates. The judgments made by the expert panel are subjected to statistical analyses that yield a passing score approved by the Certificate Examination Committee. The passing score is based on an expected level of knowledge; it is not related to the distribution of scores obtained during a particular administration of the examination. In any given year an examinee has the same chance of passing the examination whether those taking the examination at that time tend to have high scores or low scores. Each examinee is measured against a standard of knowledge, not against the performance of the other individuals taking the examination.

Examination Results

ASTMH will notify examinees by email in December 2022 of their results. Results will not be given by phone.

Receiving the CTropMed® Certificate

Examinees passing the examination and fulfilling all requirements will be allowed—by law—to designate that they have “Received a CTropMed® certificate from ASTMH” and will receive a certificate. Examinees passing the examination but not meeting all requirements will have their certificate held until all requirements are fulfilled. During this interim period, the examinee must not list or indicate in any way that they have “Received the CTropMed® certificate from ASTMH.”

Special Circumstances

Retaking the Examination

There is no limit on the number of times one may apply for and retake the examination. However, if an examinee does not pass after three attempts, they will be required to show proof of courses or seminars taken to remedy areas needing strengthening. A new application form and all applicable fees are required for each re-examination application.

Comparative Review

Candidates may request a comparative review up to approximately 30 days following ASTMH's release of candidate scores. Requests must be in writing and accompanied by payment in the amount of \$65 US. Please contact [Buffy Finn](#) for additional information. The results of the comparative review will be completed within 30 days of receipt of the roster.

Reaffirming ASTMH's Commitment to Inclusion and Respect

Non-Discrimination Policy

ASTMH does not discriminate against any person on the basis of age, gender, sexual orientation, race, religion, national origin, medical condition, physical disability, marital status or any other protected classification.

Reasonable Accommodations

Reasonable accommodations provide candidates with disabilities a fair and equal opportunity to demonstrate their knowledge and skill in the essential functions being measured by the examination. Reasonable accommodations are decided based on the individual's specific request, disability, documentation submitted and appropriateness of the request. Reasonable accommodations do not include steps that fundamentally alter the purpose or nature of the examination. Reasonable accommodations generally are provided for candidates who have a physical or mental impairment that substantially limits that person in one or more major life activities (e.g., walking, talking, hearing and performing manual tasks); have a record of such physical or mental impairment; or are regarded as having a physical or mental impairment. To apply for reasonable accommodations, the candidate must request the accommodations in the application process and provide documentation that supports reasonable accommodations provided by an appropriate licensed professional on the professional's letterhead. The documentation must include a diagnosis of the disability and specific recommendations for accommodations.

Diagnosis and treatment of infected persons is an important means of interrupting transmission due to which of the following?

- ☐ (A) American cutaneous leishmaniasis
- ☐ (B) Mediterranean visceral leishmaniasis
- ☐ (C) Gambian trypanosomiasis
- ☐ (D) Chagas disease

Requests for accommodations must be submitted no later than 45 days before the candidate's preferred testing window opens, and candidates must submit their scheduling request at least 30 days prior to their preferred test date within the testing window. It is recommended that this documentation be submitted at least 45 days prior to the preferred testing date.

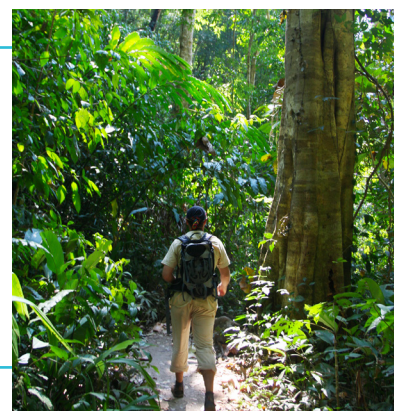
PLEASE NOTE: It is your responsibility to provide supporting documentation from a licensed professional on the professional's letterhead along with your application. Failure to provide the required documentation at least 45 days prior to the candidates preferred testing window may result in you not receiving the accommodations you are requesting.

CTropMed® Examination Study Guide

- Carefully review the **Examination Outline**. The approximate percentage of the total examination allotted to each major content area is indicated in parentheses.
- Answering the **Sample Questions** will help familiarize you with the nature and format of the questions on the examination.
- The **References** may be helpful in your preparation. This list is not intended to be exhaustive.

Attend the **virtual Update Course!** **September 17-18, 2022**

This two-day condensed course provides a broad overview of core topics in clinical tropical medicine and travelers' health. For more information on the Update Course, visit the [ASTMH website](#).



CTropMed® Examination Application Checklist



- ✓ [Complete online application](#)
- ✓ [Pay fee online](#)
- ✓ Upload copy of current professional healthcare license (for Practice Pathway applicants only)
- ✓ Upload description of practical experience/domestic clinical activity
- ✓ Upload documentation for pathway option: description of 5 years clinical experience
OR
- ✓ Upload documentation for Diploma Course Pathway: diploma course certificate
- ✓ Upload documentation of continuing medical or nursing education

All uploaded documents must be in English.

ASTMH CTropMed® Examination Committee

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**American Society of Tropical
Medicine and Hygiene**

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2022 ANNUAL MEETING

October 30 – November 3 Washington State Convention Center | Seattle, WA, USA

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