MAYO CLINIC LABORATORIES

Test Definition: SHUR

Schistosoma Exam, Random, Urine

Overview

Useful For

Aiding in the diagnosis of schistosomiasis infections involving the urinary tract

Method Name

Microscopic

NY State Available

Yes

Specimen

Specimen Type

Urine

Specimen Required

Supplies: Urine Tubes, 10 mL (T068)
Collection Container/Tube: Clean, plastic urine collection container
Submission Container/Tube: Plastic, 10-mL urine tube
Specimen Volume: 10 mL
Collection Instructions:
1. Collect a random urine specimen. Preferred time of collection between the hours of 12 noon and 3 p.m. but not required. A 24-hour urine collection is also acceptable.
2. No preservative.
Additional Information: A specimen volume of at least 10 mL is recommended for optimal recovery of *Schistosoma* species ova.

Specimen Minimum Volume

5 mL

Reject Due To

Preserved urine	Reject

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Urine	Refrigerated	7 days	

Clinical & Interpretive

Clinical Information

Schistosomiasis is an infection caused by several species of trematodes (flukes) in the genus *Schistosoma*. The adult worms of *Schistosoma haematobium* inhabit the venus plexus of the bladder and produce eggs that are typically passed in the urine. Peak egg excretion occurs between noon and 3 p.m. Identification of characteristic eggs in urine is diagnostic for infection with this organism.

Reference Values

Negative
If positive, organism identified

Interpretation

A positive result indicates the presence of *Schistosoma* species ova in urine.

A negative result does not rule out the presence of *Schistosoma* species since ova may be present at levels below the detection limits of this assay, or infection may not involve the urinary tract.

Optimal recovery of *Schistosoma* species ova in the urine is achieved when the specimen volume is at least 10 mL. If less than 10 mL is received, a comment is added to the result.

Cautions

For optimal recovery of *Schistosoma* species ova, a specimen volume of 10 to 20 mL is recommended.

Clinical Reference

1. Ash L, Orihel T: Atlas of Human Parasitology. 5th ed. American Society of Clinical Pathologists (ASCP) Press; 2007
2. Global Health, Division of Parasitic Diseases: Parasites- Schistosomiasis. Centers for Disease Control and Prevention. Reviewed Apri 11, 2018. Accessed August 28, 2023. Available at: www.cdc.gov/parasites/schistosomiasis/index.html
3. World Health Organization (WHO): Schistosomiasis (Bilharzia). WHO. Accessed August 28, 2023. Available at: www.who.int/health-topics/schistosomiasis#tab=tab_1

Performance

Method Description

Filter concentration of urine has been shown to increase recovery of *Schistosoma haematobium* eggs from urine. Ten milliliters of urine is passed through a membrane filter and the filter is examined under the microscope for the characteristic eggs.(Garcia L: Diagnostic Medical Parasitology. 6th ed. ASM Press, 2016)

PDF Report

No

Day(s) Performed

Monday through Saturday

Test Definition: SHUR

Schistosoma Exam, Random, Urine

Report Available
1 to 4 days

Specimen Retention Time
Until reported

Performing Laboratory Location
Mayo Clinic Laboratories - Rochester Main Campus

Fees & Codes

Fees
- Authorized users can sign in to Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact Customer Service.

Test Classification
This test has been cleared, approved, or is exempt by the US Food and Drug Administration and is used per manufacturer's instructions. Performance characteristics were verified by Mayo Clinic in a manner consistent with CLIA requirements.

CPT Code Information
87210
87015

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
SHUR	Schistosoma Exam, U	10715-1

Result ID	Test Result Name	Result LOINC® Value
SHUR	Schistosoma Exam, U	10715-1