MAYO CLINIC LABORATORIES

Test Definition: PATHC

Pathology Consultation

Overview

Useful For

A subspecialty second opinion for a **specific pathology question** referred by a primary pathologist

Note: A consultative opinion is not a full rendering of a primary diagnostic report (eg, multiple parts, margin status, CAP synoptics)

Obtaining special studies not available locally

This test is **not intended** to be used to obtain a primary diagnosis.

Reflex Tests

Test Id	Reporting Name	Available Separately	Always Performed
COSPC	Consult, Outside Slide	No, (Bill Only)	No
CRHPC	Consult, w/Comp Rvw of His	No, (Bill Only)	No
CSPPC	Consult, w/Slide Prep	No, (Bill Only)	No
CUPPC	Consult, w/USS Prof	No, (Bill Only)	No
SLSUR	Consult Slide Surcharge	No, (Bill Only)	No

Testing Algorithm

This request will be processed as a consultation case. An interpretation, which includes an evaluation of the specimen and determination of a diagnosis, will be provided within a formal pathology report. Second opinion regarding diagnosis will be rendered by staff pathologists, often in consultation with colleagues who have expertise in the appropriate subspecialty areas. Appropriate additional stains and other ancillary testing may be performed to render comprehensive assessment. These additional stains/tests ordered will have the results included within the final pathology report and will be at an additional charge. Additionally, consultation cases with more than 25 client-stained slides received with the initial request will incur an additional surcharge. (This additional surcharge will not apply to client-stained slides sent in response to Mayo Clinic pathologist request.)

Note: Special stains and studies performed on the case should be sent with the case for review. To determine an accurate diagnosis, some of these stains or studies may be deemed to warrant being repeated, at an additional charge, at the reviewing Mayo Clinic pathologist's discretion. In addition, testing requested by the referring physician (immunostains, molecular studies, etc) may not be performed if deemed unnecessary by the reviewing Mayo Clinic pathologist. For all pathology consultations, ancillary testing necessary to determine a diagnosis is ordered at the discretion of the Mayo Clinic pathologist.

For more information see Pathology Consultation Ordering Algorithm.

Special Instructions

- Multiple Myeloma: Laboratory Screening
- Pathology Consultation Ordering Algorithm

- Bone Marrow Core Biopsy, Clot, and Aspirate Collection Guideline
- Pathology Consultation Cover Letter
- Pathology Consultation ordering submission guide

Highlights

Our consultative practice strives to provide the highest quality diagnostic consultative service, balancing optimal patient care with a cost-conscious approach that supports the rapid turnaround time for diagnostic results.

NY State Available

Yes

Specimen

Specimen Type

MMLDRY

Ordering Guidance

This test is intended for use with dry tissue - blocks and/or slides - only. For test ordering guidance for other specimen types, see Pathology Consultation Ordering Algorithm.

Note: Send only those case specimens for which a Mayo Clinic pathologist interpretation is needed to guide patient care. This test is **not** intended for quality assurance/control (QA/QC) or medico-legal reviews. If Pathology QA/QC or medico-legal review is needed, contact your Mayo Clinic Laboratories account team or call 800-533-1710.

Shipping Instructions

Attach the green "Attention Pathology" address label (T498) to the outside of the transport container before putting into the courier mailer.

Necessary Information

For assistance gathering required documentation and specimens for this test, see Pathology Consultation order submission guide.

All requisition and supporting information must be submitted in English.

Each of the following items is required:

1. All requisitions must be labeled with:

-Patient name, date of birth, and medical record number

-Name and phone number of the referring healthcare professional

-Anatomic site and collection date

2. A preliminary or final pathology report and brief patient history are essential to achieve a consultation fully relevant to the ordering healthcare professional's needs.

3. A specific diagnostic question is required for each specimen/part submitted. Include diagnostic question in a cover letter or in the requisition notes/comments. For ease of submission, the Pathology Consultation Cover Letter form can

be completed and sent with the specimen.

4. Additional required information by case type:

Note: Imaging studies should be submitted for the request via Mayo Clinic ImageShare (preferred) or external storage device. Be aware that ImageShare **does not support** the upload of Pathology whole slide images.

-**Bone soft tissue consults**: Preoperative imaging studies **must** be provided; the consultation **will not proceed** without radiology films, as a diagnosis cannot be definitively determined.

-**Liver/kidney consults**: Corresponding ancillary laboratory test results.

-**Neuropathology consults**: Clinical and/or radiology imaging should be included if available.

-**Placenta consults**: Labor and delivery notes, patient history, operation notes, and imaging reports should be included if available.

-**Bone marrow consults**:

1. A recent Hematology/Oncology clinical note; print and submit with the case.
2. Complete blood cell count (CBC) result from testing performed within 14 days of bone marrow collection.
3. Indicate clinical reason/context for submitting this case.
4. All pending and final reports for ancillary testing on submitted specimens.

Appropriate slides and tissue sampling and fixation are required to make a diagnosis on routine stains and on the special stains or studies that may be required.

Specimen Required

Additional Information:

All specimens and additional paperwork must be labeled with:

-Two patient identifiers (first and last name, date of birth, or medical record number)

-Specimen type and anatomic site

Supplies: Pathology Packaging Kit (T554)

Specimen Type: Tissue

Container/Tube: Formalin-fixed paraffin-embedded blocks, stained slides, and/or unstained slides

Note: Submit only pertinent hematoxylin and eosin (H and E) and all special stains relevant to the diagnostic questions for the case. Include positively charged unstained slides and/or a formalin-fixed, paraffin-embedded tissue block if it is anticipated that additional stains or ancillary testing may be necessary.

Bone Marrow Case Specimen Requirements

For information on collecting specimens, see Bone Marrow Core Biopsy, Clot, and Aspirate Collection Guideline.

Specimen Type: Bone marrow aspirate

Slides: 5

Preferred: Freshly prepared slides made at the time of specimen collection

Acceptable: Slides made from EDTA specimen, within 2 hours of collection

Submission Container/Tube: Plastic slide holder

Specimen Type: Bone marrow aspirate clot

Container/Tube: Bone marrow aspirate clot embedded in paraffin block

Collection Instructions: Process and embed clot in paraffin

Specimen Type: Bone marrow core biopsy
Container/Tube: Fixed biopsy core embedded in paraffin block
Collection Instructions: Process and embed core in paraffin.

Specimen Type: Blood
Slides: 2
Preferred: 2 Freshly prepared fingerstick slides
Acceptable: 2 Slides made from whole blood in EDTA, made within 8 hours of collection
Submission Container/Tube: Plastic slide holder

Forms

1. Pathology Consultation Cover Letter
2. If not ordering electronically, complete, print, and send Pathology Consultation Request (T246) with the specimen.

Reject Due To

Broken or cracked unstained slides	Reject

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
MMLDRY	Ambient		

Clinical & Interpretive

Clinical Information

Mayo Clinic in Rochester, Minnesota is staffed by pathologists whose expertise and special interests cover the entirety of pathology-from surgical pathology with all its respective subspecialty areas, to hematopathology, renal pathology, and dermatopathology.

Consultation services are provided for difficult diagnostic problems. Consultation cases may be sent by a referring pathologist and directed to one of the pathologists who is an expert in the given area or directed more broadly to the subspecialty group. Cases are frequently shared and, sometimes, transferred between the pathologists, as deemed appropriate for the type of case or diagnostic problem encountered. Emphasis is placed on prompt and accurate results. Stained slides and paraffin blocks received are reviewed in conjunction with the clinical history provided, laboratory findings, radiographic findings (if applicable), and sending pathologist's report or letter. If additional special stains or studies are needed, the results are included in the final interpretive report. In some cases, electron microscopy and other special procedures are utilized as required.

A variety of ancillary studies are available (eg, cytochemistry, immunohistochemistry, immunofluorescence, electron microscopy, mass spectrometry, cytogenetics, and molecular genetics) to aid in establishing a diagnosis. These ancillary

studies are often expensive, labor intensive, and most efficiently utilized and interpreted in the context of the morphologic features. The goal is to provide the highest possible level of diagnostic consultative service, while balancing optimal patient care with a cost-conscious approach to solving difficult diagnostic problems.

Reference Values
An interpretive report will be provided.

Interpretation
Results of the consultation are reported in a formal pathology report that includes a description of ancillary test results (if applicable) and an interpretive comment.

Cautions
Hematopathology, medical renal pathology, and dermatopathology primary consultation can be provided by separate tests (HPWET / Hematopathology Consultation, MCL Embed; RPCWT / Renal Pathology Consultation, Wet Tissue; DEXT / Dermatopathology Consultation, Wet Tissue). Otherwise, primary interpretation should be performed by a local pathology service and Mayo Clinic pathologists will render a second opinion if requested.

Specific diagnosis may require correlation with clinical information.

Broken or cracked unstained slides are not compatible with the instrumentation used in our performing laboratories and will be rejected. Additional material may be requested.

Clinical Reference
Renshaw AA, Gould EW. Measuring the value of review of pathology material by a second pathologist. Am J Clin Pathol. 2006;125(5):737-739. doi:10.1309/6A0R-AX9K-CR8V-WCG4

Performance

Method Description
All requests will be processed as a consultation case first. Special studies will be performed only if deemed to be diagnostically indicated. If the need for enzyme cytochemical stains, immunophenotyping, and/or immunohistochemical stains is anticipated, appropriate specimen requirements should be followed as indicated.

PDF Report
No

Day(s) Performed
Monday through Friday

Report Available
4 to 8 days; The final pathology report may be delayed if additional materials are required, or if ancillary testing (up to 21 days) is indicated.

Specimen Retention Time
Material made at Mayo Clinic may be retained at Mayo Clinic indefinitely

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

Not Applicable

CPT Code Information

88321 (if appropriate)
88323 (if appropriate)
88325 (if appropriate)

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
PATHC	Pathology Consult	60570-9

Result ID	Test Result Name	Result LOINC® Value
71038	Interpretation	60570-9
71039	Participated in the Interpretation	No LOINC Needed
71040	Report electronically signed by	19139-5
71041	Addendum	35265-8
71042	Material Received	22633-2
71583	Disclaimer	62364-5
71789	Case Number	80398-1