Test Definition: ANPAT

Anatomic Pathology Consultation, Wet Tissue

Overview

Useful For

Obtaining a rapid, expert opinion on unprocessed specimens (lung tissue for immunofluorescence, cardiac biopsies, enucleated eye specimens, iris, conjunctiva, cornea, and other small eye biopsies) referred by a pathologist

This test is **not useful for** suspected hematologic disorders.

Reflex Tests

Test Id	Reporting Name	Available Separately	Always Performed
LEV1P	Level 1 Gross only	No, (Bill Only)	No
LEV2P	Level 2 Gross and microscopic	No, (Bill Only)	No
LEV3P	Level 3 Gross and microscopic	No, (Bill Only)	No
LEV4P	Level 4 Gross and microscopic	No, (Bill Only)	No
LEV5P	Level 5 Gross and microscopic	No, (Bill Only)	No
LEV6P	Level 6 Gross and microscopic	No, (Bill Only)	No

Testing Algorithm

Laboratory approval is required prior to ordering this test. Contact Mayo Clinic Laboratories at 800-533-1710.

An interpretation will be provided by Mayo Clinic staff pathologists within a formal pathology report sent to the referring pathologist.

Appropriate stains and other ancillary testing may be performed at an additional charge.

Note: Tests requested by the referring physician (immunostains, molecular studies, etc.) may not be performed if they are deemed to be unnecessary by the reviewing Mayo Clinic pathologist. For all pathology consultations, ancillary testing is ordered at the discretion of the Mayo Clinic pathologist.

Note: Calls are not routinely made; however, depending on the nature of the case, a call may be placed to the ordering provider or pathologist. To contact a Mayo Clinic Pathologist, contact Mayo Clinic Laboratories at 800-533-1710.

For more information see Pathology Consultation Ordering Algorithm.

Special Instructions

- Pathology Consultation Ordering Algorithm

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.

Method Name

Medical Interpretation

NY State Available

Yes

Specimen

Specimen Type

Varies

Ordering Guidance

For a pathology consultation on paraffin embedded tissue and slides only (ie, no wet tissue being sent to be processed), order PATHC / Pathology Consultation.

Shipping Instructions

Vitreous fluid/aqueous humor specimens: ship overnight; Attention: Ophthalmic Pathology Working Group. **Call 800-533-1710 to request an Expedite on this order since vitreous fluid will have no fixative and needs to reach the laboratory as quickly as possible.**

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

Necessary Information

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 pathologist or ordering provider
-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 provider's needs.**
3. Additional information by case type
Cardiac explant: Include the last pretransplantation echocardiogram with report and images as well as all other relevant clinical documents (eg, family history of cardiac events, cardiac laboratory testing results)
Iris, conjunctiva, cornea, and other small biopsies from eye: Clinical/surgical notes should be included if available.

Specimen Required

Submit 1 of the following specimens:

Specimen Type: Lung biopsy
Supplies:
-Pathology Packaging Kit (T554)
-Formalin, 10% Buffered Neutral for Tissue (T118)
-Michel's Transport Media for Immunofluorescent Testing on Tissue (T321)
Specimen Volume: Biopsy specimens as delineated below
Collection Instructions:
For testing to be performed, both of the following must be submitted:
a. For light microscopy:
Preferred: A portion of lung tissue in 10% neutral buffered formalin. Specimens submitted in formalin needs to be fully submerged with the optimal approximate specimen volume of 10:1 or higher.
Acceptable: A representative hematoxylin and eosin (H and E)-stained slide
b. For immunofluorescence, a portion of the unfixed lung tissue in Michel's transport media

Specimen Type: Cardiac biopsy
Supplies:
-Pathology Packaging Kit (T554)
-Formalin, 10% Buffered Neutral for Tissue (T118)
-Gluta (Trumps) (T130)
Specimen Volume: Biopsy specimens as delineated below
Collection Instructions:
1. Collect 4 to 6 biopsy specimens and submit all in 10% neutral buffered formalin. Specimens submitted in formalin needs to be fully submerged with the optimal approximate specimen volume of 10:1 or higher. If formalin biopsy specimens are not available, light microscopy slides would also be acceptable.
2. If electron microscopy (EM) is also requested, submit at least 1 biopsy into 2.5% to 3% buffered glutaraldehyde preservative (Trumps) along with the formalin biopsy specimens.
Additional Information: If the question is drug toxicity, storage disease, or if the patient is younger than 25 years, send at least 1 biopsy specimen in 2.5% to 3% buffered glutaraldehyde (Trumps) in case EM is needed for diagnosis.

Specimen Type: Cardiac explant
Supplies: Pathology Packaging Kit (T554)
Specimen Volume: Entire explant specimen
Collection Instructions:
1. Fix entire explant specimen in formalin for a minimum of 24 hours.
2. Following fixation, lightly wrap specimen in formalin-soaked paper towel, place in a biohazard bag with a small amount of formalin, seal, place in another biohazard bag, and seal.

Specimen Type: Enucleated eye
Supplies:
-Pathology Packaging Kit (T554)
-Formalin - 10% Histo Prep, 45 mL (T117)
Specimen Volume: Entire eye specimen
Collection Instructions:

1. Immediately after removal, place specimen in approximately 300 mL of 10% neutral buffered formalin and fix for 48 hours.
2. Enucleated eye should not be opened or punctured.
3. After the 48-hour fixation, the specimen should be transferred from the larger, 300 mL container to a smaller container with fixative (Formalin - 10% Histo Prep, 45 mL) for shipping.

Specimen Type: Iris, conjunctiva, cornea, and other small biopsies from eye
Supplies:
-Pathology Packaging Kit (T554)
-Formalin - 10% Histo Prep, 45 mL (T117)
Specimen Volume: Entire biopsy specimen
Collection Instructions:
1. Place iris, conjunctiva, cornea, and other small biopsies on a paper mount (a piece of filter paper or other porous paper). This helps to keep the specimen from curling when it is fixed.
2. Immediately, gently place paper-mounted specimen into 10% formalin (Formalin - 10% Histo Prep, 45 mL).
3. In cases where margins are important, placing sutures at the margins of resection with accompanying explanatory draft will help orientation of the specimen in the lab.

Specimen Type: Vitreous fluid/Aqueous humor
Supplies:
-Pathology Packaging Kit (T554)
-Sarstedt Aliquot Tube, 5 mL (T914)
Container/Tube: Plastic screw-top vial
Specimen Volume: Entire specimen
Collection Instructions:
1. Place the liquid (vitreous or aqueous) concentrate (preferred) or washing (diluted, acceptable) into a small tube with a screw-top cap.
2. Refrigerate the specimen immediately (**do not freeze**).
Specimen Stability Information: Refrigerated

Specimen Minimum Volume

See Specimen Required

Reject Due To

All specimens will be evaluated at Mayo Clinic Laboratories for test suitability.

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Varies	Ambient (preferred)		
	Refrigerated		
	Frozen		

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. Materials 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 and labor intensive and are 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 trying to balance 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, which includes a description of ancillary test results (if applicable) and an interpretive comment. When the case is completed, results may be communicated by a phone call.

Cautions

Appropriate tissue sampling and fixation are required in order to make a diagnosis.

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
3 days; Cases requiring additional material or ancillary testing may require additional time.

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
88300 (if appropriate)
88302 (if appropriate)
88304 (if appropriate)
88305 (if appropriate)
88307 (if appropriate)
88309 (if appropriate)

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
ANPAT	Wet Tissue Pathology Consult	60570-9

Result ID	Test Result Name	Result LOINC® Value
71043	Interpretation	60570-9
71044	Participated in the Interpretation	No LOINC Needed
71045	Report Electronically signed by	19139-5
71046	Addendum	35265-8
71047	Gross Description	22634-0
71048	Material Received	22633-2
71584	Disclaimer	62364-5
71790	Case Number	80398-1