

PULMONARY PATHOLOGY GROSSING GUIDELINES

Specimen Type: WEDGE RESECTION

Procedure:

Please note that as part of our research studies we are collecting fresh neoplasm for tissue banking. Please cooperate. Please make sure there is enough neoplasm for diagnostic evaluation, unless otherwise directed by the research protocol and/or by the TPCL staff.

You must check the chart to see if the patient received neoadjuvant therapy. This will affect how the specimen is grossed.

Procedure for cases without neoadjuvant therapy

1. Describe nature of the specimen (entire lung, lobe, wedge resection).
2. Weigh, measure to the mm and photograph
3. Describe pleural surface, noting color, granularity, and presence of adhesions, retraction, and tumor. Describe state of inflation and consistency.
4. Inflate the specimen with 10% formalin. Margins should be inked. After fixation, serially section the specimen.
5. Describe cut surface of lung, noting color and consistency and focal lesions. For tumors, describe size, color, consistency, location, relationship to bronchi and closest distance to pleura and margin or resection. Photograph all tumors.
6. Describe lymph nodes, noting location, range of sizes and appearance of cut surface.

Procedure for cases with neoadjuvant therapy

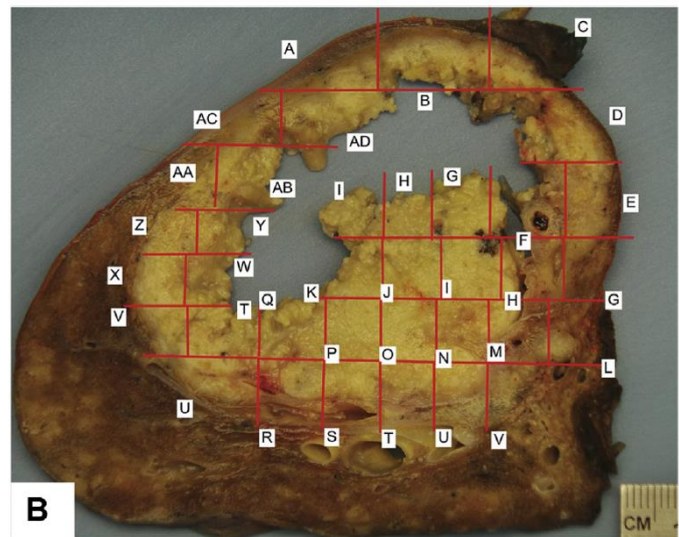
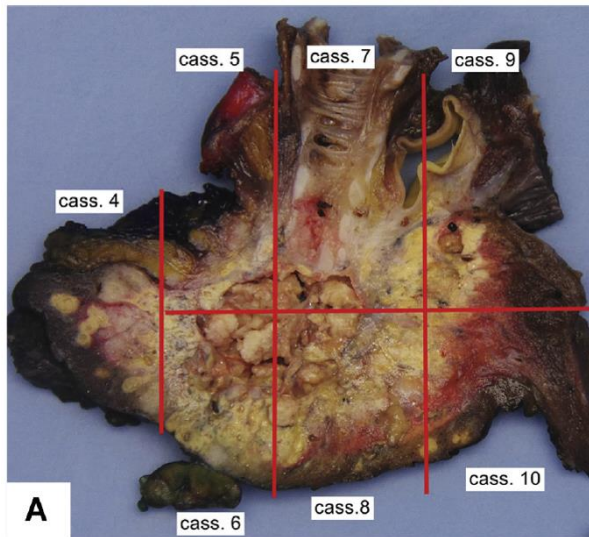
*Note that steps which are not standard have been highlighted in yellow in the procedure and gross to stand out.

7. Describe nature of the specimen (entire lung, lobe, wedge resection).
8. Weigh, measure to the mm and photograph.
9. Describe pleural surface, noting color, granularity, and presence of adhesions, retraction, and tumor. Describe state of inflation and consistency.
10. Inflate the specimen with 10% formalin. Margins should be inked. Identify tumor and measure in three dimensions
11. **Section the specimen (after fixation) in the plane that demonstrates the maximum dimension of the tumor and best shows the tumor/ tumor bed and its relationship to the surrounding structures relevant**

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for staging and surgical margins (*ie. pleura and bronchovascular margins*).

- i. Sectioning in this manner will optimize gross and histologic assessment of lung tumor for major pathologic responses to treatment.
12. Photograph the cut surface demonstrating the tumor/tumor bed and adjacent structures. **You will be making a tissue map of your submitted cassettes.**
13. For tumors, describe size, color, consistency, location, relationship to bronchi and closest distance to pleura and margin or resection. **Estimate percentage of gross necrosis of tumor (this will be correlated with the necrosis seen microscopically on the slides).**
14. Describe cut surface of remaining lung, noting color and consistency and any additional focal lesions.
15. Describe lymph nodes, noting location, range of sizes and appearance of cut surface.
16. **Submit one full cross section of tumor/tumor bed showing maximum dimension. The sections submitted along the periphery of the tumor should include a border of at least 1 cm of surrounding non-neoplastic lung parenchyma, if possible. Use photomapping software (SPOT camera or paint) to label exact cassette submission on photo. See below:**



- a) Submit entire tumor/tumor bed if less than 3 cm in greatest dimension.
- b) One section demonstrating closest approach to pleura (order EMT stain on this section).
- c) One section of uninvolved parenchyma (including bronchi).
- d) Sections of any other lesions.

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Gross Template:

Labeled with the patient's name (**), medical record number (**), designated "****", and received [*fresh/in formalin*] is a ** gram, ** x ** x ** cm [*intact/previously incised*] lung wedge resection. There is a ** cm in length staple line present at the resection margin. The pleura is [*intact/ruptured/smooth/glistening/roughened/puckered*]. There is a [*minimal, moderate, extensive*] amount of anthracotic pigmentation. Sectioning reveals [*describe all lesions including size, color, involvement of pleura, and distance from stapled resection margin*]. The [*lesion/tumor/fibrosis*] is grossly **% degenerated.

The remaining lung parenchyma is [*emphysematous/spongiform/fibrotic/unremarkable*]. Representative sections are submitted [*number of cassettes*]. Gross photographs are taken. A tissue mapping diagram is taken. [*Representative sections are submitted/The specimen is entirely submitted*].

Ink key:

Blue-stapled resection margin

Green- puckered pleura overlying lesion

Total Formalin fixation: ** hours

Cassette Submission: Entirely submit specimen if less than 3 cassettes. If more than 3 cassettes, representatively sample as below:

Sampling for cases without neoadjuvant therapy

- Perpendicular section(s) from margin
- One section per 1 cm of tumor
 - o Show relationship to pleura/unremarkable parenchyma/margin)

Sampling for cases with neoadjuvant therapy

- Perpendicular section(s) from margin
- Entire cross section of tumor submitted showing greatest maximum dimension. Submit entire tumor if less than 3 cm.
 - o Show relationship to pleura/unremarkable parenchyma/margin)