Contributors:

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Lung Case # 3
Presentation of New Case

• Newly diagnosed lung cancer patient

• Presentation at Cancer Conference for treatment recommendations and clinical staging
• 65 yr old female who presented with inappropriate behavior and thoughts

• Current smoker, using nicotine patch to quit
Lung Case # 3
Imaging Results

• Chest x-ray- infiltrate

• CT & MRI brain- 2cm mets in each right frontal & right occipital lobes

• CT chest- 2.4cm LUL lung mass, bilateral mediastinal nodes

Lung Case # 3
Diagnostic Procedure

• Procedure
  – CT guided biopsy LUL lung

• Pathology Report
  – Adenocarcinoma
Lung Case # 3
Clinical Staging

• Clinical staging
  – Uses information from physical exam, imaging, and diagnostic biopsy

• Purpose
  – Select appropriate treatment
  – Estimate prognosis
Lung Case # 2
Clinical Staging

• Synopsis: patient with 2.4cm LUL lung mass, bilateral mediastinal nodes, and brain mets

• What is the clinical stage?
  – T____
  – N____
  – M____
  – Stage Group______
Lung Case # 2
Clinical Staging

• Clinical Stage correct answer
  – cT1c
  – cN3
  – cM1b
  – Stage Group IV

• Based on stage, treatment is selected

• Review treatment guidelines for this stage
Lung Case # 3
Clinical Staging

• Rationale for staging choices
  – cT1c for ca >2cm but ≤3cm

  – cN3 because contralateral mediastinal nodes were clinically positive on imaging

  – cM1b because distant metastases (brain) were found on imaging; if additional mets were suspected, appropriate tests would be performed before developing a treatment plan
Lung Case # 3

Treatment Options

• Review treatment guidelines for this stage

• Discuss appropriate treatment plans for this patient
Lung Case # 3
Posttherapy Staging

• Treatment chosen based on 2.4cm LUL lung mass, bilateral mediastinal nodes, and brain mets, Stage IV (clinical staging) is combination of

  – Immunotherapy (based on results of ALK, ROS1 and EGFR) and

  – Radiation to chest and brain

• Posttherapy y-clinical staging may be assigned at completion of therapy
• Applicable to this case
  – Separate tumor nodules: none
  – Visceral and parietal pleural invasion: none
M1b defined as single extrathoracic metastasis in a single organ (including involvement of a single nonregional node)

Lung Case # 3  
Recap of Staging

• Summary of correct answers

  – Clinical stage  cT1c cN3 cM1b Stage Group IV

  – Posttherapy y-clinical stage (yc) unknown

• The staging classifications have a different purpose and therefore can be different. Do not go back and change the clinical staging based on further information.
Staging Moments Summary

• Review site-specific information if needed

• Clinical Staging
  – Based on information before treatment
  – Used to select treatment options

• Posttherapy y-clinical Staging
  – Based on clinical history & physical examination and any imaging studies after completion of therapy
  – Assesses response to treatment