

**2017**  
**NCCN GUIDELINES REVIEW**  
**MRI BRAIN STAGING FOR STAGE II-IVA NON SMALL CELL LUNG CANCER**

**STUDY TOPIC:** Adherence to National Comprehensive Cancer Network (NCCN) and National Cancer Data Base (NCDB) Guidelines for non small cell lung cancer staging. Ensure all patients with stage II-IVA NSC lung cancer receive an MRI brain as part of staging work up.

**OBJECTIVE:** To ensure appropriate work up of non small cell lung cancer for treatment planning in accordance with NCCN guidelines.

**MEASUREMENT:** 2016 cases

**METHOD:** Retrospective chart and abstract review. A total of 25 analytical cases were reviewed.

**RESULTS:**

| MR #      | STAGE AT DIAGNOSIS | MRI INDICATED Y/N | MRI DONE Y/N | MET GUIDELINE | NOTES                       |
|-----------|--------------------|-------------------|--------------|---------------|-----------------------------|
| 003875069 | IIIB               | Y                 | Y            | MET           |                             |
| 004438925 | IVB                | N                 | N            | MET           | Contrast CT head            |
| 002813780 | IVB                | N                 | N            | MET           |                             |
| 300170141 | IVB                | N                 | N            | MET           |                             |
| 004082988 | IVB                | N                 | Y            | MET           |                             |
| 005685144 | IVB                | N                 | N            | MET           |                             |
| 004670071 | IIIA               | Y                 | Y            | MET           |                             |
| 005821517 | IVB                | N                 | N            | MET           |                             |
| 300187975 | IVB                | N                 | N            | MET           |                             |
| 001579135 | IVB                | N                 | N            | MET           |                             |
| 001516541 | IIIB               | Y                 | N            | NOT MET       | Staging & treatment outside |
| 005664123 | IVB                | N                 | N            | MET           | Contrast CT head            |
| 004142725 | IVB                | N                 | N            | MET           | Contrast CT head            |
| 300198128 | IVB                | N                 | Y            | MET           |                             |
| 003450236 | IVB                | N                 | N            | MET           | MRI refused                 |
| 300196360 | IVB                | N                 | N            | MET           |                             |
| 001244995 | IIB                | Y                 | Y            | MET           |                             |
| 300201274 | IVB                | N                 | N            | MET           |                             |
| 220209217 | IVB                | N                 | N            | MET           | CT head                     |
| 004204632 | IVB                | Y                 | Y            | MET           | Stage IV by brain mets      |
| 005812649 | IVB                | Y                 | Y            | MET           | Stage IV by brain mets      |
| 300207289 | IVB                | N                 | N            | MET           | Contrast head CT            |
| 006744866 | IVB                | N                 | N            | MET           |                             |
| 006156343 | IVB                | N                 | Y            | MET           |                             |
| 008579831 | IVB                | Y                 | Y            | MET           | Stage IV by brain mets      |

**CONCLUSIONS:**

96% (24/25) patients were in compliance with NCCN guidelines. Of note, the non compliant patient was diagnosed at CCRMC but staged and treated outside.

84% (21/25) presented with stage IV disease.

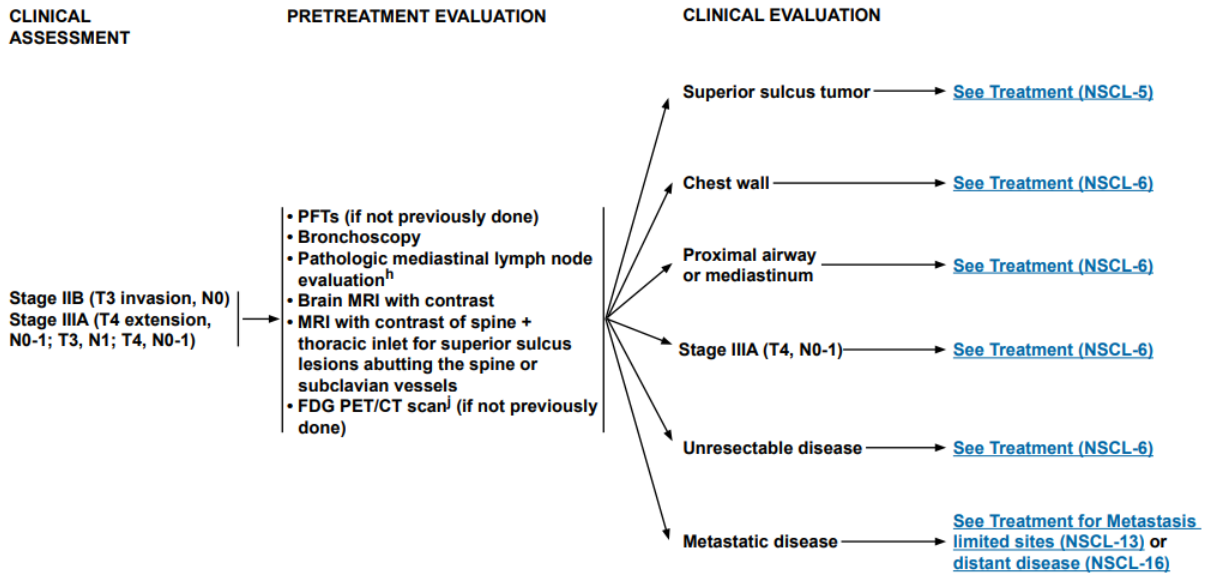
72% (18/25) had distant mets prior to brain evaluation, 12% (3/25) became stage IV due to finding of asymptomatic brain mets.

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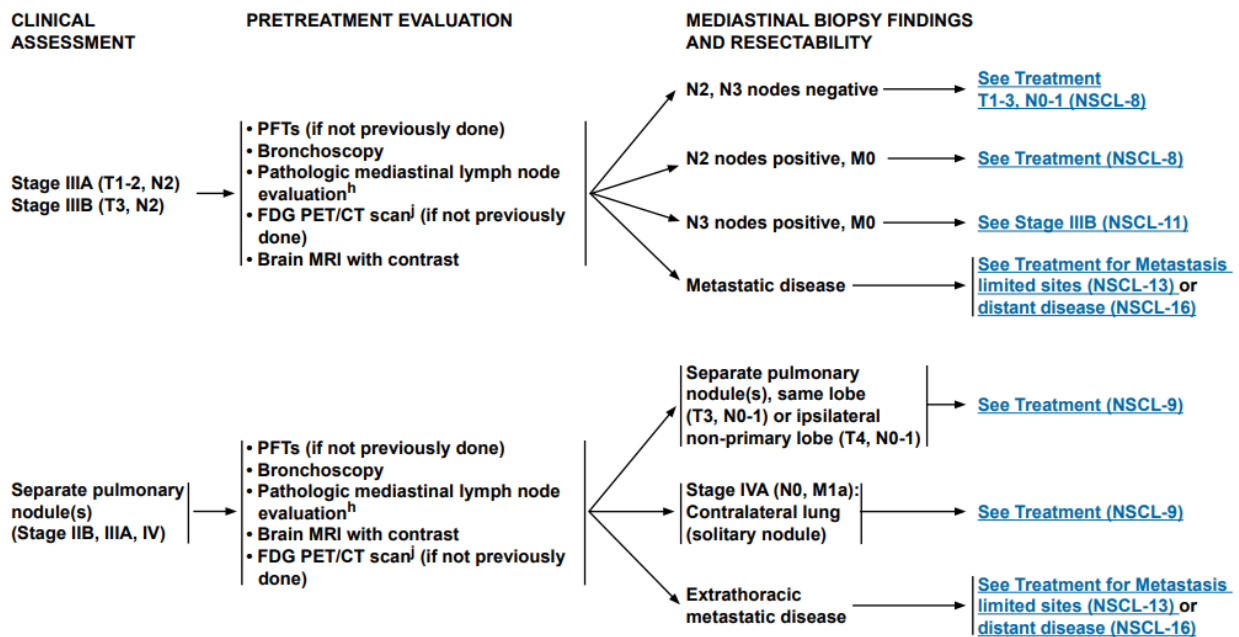
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