

**Bronchoscopy Skills and Tasks Assessment Tool for Transbronchial Lung Biopsy and Transbronchial Needle Aspiration (BSTAT-TBLB/TBNA)**

Learner: \_\_\_\_\_ Training Year \_\_\_\_\_

Faculty \_\_\_\_\_ Date \_\_\_\_\_

<b>Educational Item*</b> Items 1-10 each scored separately	<b>Satisfactory Yes/No</b>
<b>1. TBLB: Airway inspection without trauma (no partial points)</b> <input type="checkbox"/> Complete inspection done properly	Yes / No Score ____/5
<b>2. TBLB technique (no partial points)</b> <input type="checkbox"/> Wedge scope into target segment <input type="checkbox"/> Visualize target with fluoroscopy <input type="checkbox"/> Advance forceps under fluoroscopy guidance to target <input type="checkbox"/> Open forceps at target <input type="checkbox"/> Advance and close forceps at target <input type="checkbox"/> Remove forceps from scope	Yes / No Score ____/10
<b>3. TBLB Complications: Pneumothorax (no partial points)</b> <input type="checkbox"/> Perform panoramic view of hemithorax using fluoroscopy <input type="checkbox"/> Recognize signs and symptoms <input type="checkbox"/> Demonstrate easy access to small or large bore chest tube	Yes / No Score ____/10
<b>4. TBLB: Complications: Bleeding (no partial points)</b> <input type="checkbox"/> Scope wedged into target segment <input type="checkbox"/> Move patient into lateral decubitus safety position <input type="checkbox"/> Access upper airway with oral suction <input type="checkbox"/> Demonstrate access and use of bite block and endotracheal tube	Yes / No Score ____/10
<b>5. TBLB: Decision making (5 points each , target score 15 points)</b> <input type="checkbox"/> Image 1 <input type="checkbox"/> Image 2 <input type="checkbox"/> Image 3	Yes / No Score ____/15
<b>6. TBNA: Airway inspection and imaging interpretation (5 points each)</b> <input type="checkbox"/> Complete inspection done properly <input type="checkbox"/> Imaging studies correctly interpreted	Yes / No Score ____/10
<b>7. TBNA Technique - Jab (no partial points)</b> <input type="checkbox"/> Advance catheter towards target area <input type="checkbox"/> Advance needle to target area without airway trauma <input type="checkbox"/> Jab needle through airway wall at target region while scope is fixed at nose or mouth <input type="checkbox"/> Move needle back and forth inside node while suctioning <input type="checkbox"/> Release suction prior to needle withdrawal from target region <input type="checkbox"/> Retract needle into the catheter <input type="checkbox"/> Observe that needle is completely retracted inside catheter <input type="checkbox"/> Withdraw catheter from scope	Yes / No Score ____/10
<b>8. TBNA Technique-Hub against wall (no partial points)</b> <input type="checkbox"/> Advance catheter towards target area <input type="checkbox"/> Touch catheter to target area without airway trauma <input type="checkbox"/> Penetrate airway wall with needle while holding scope firmly <input type="checkbox"/> Move needle back and forth inside node while suctioning <input type="checkbox"/> Release suction prior to needle withdrawal from target region <input type="checkbox"/> Retract needle into the catheter <input type="checkbox"/> Observe that needle is completely retracted inside catheter <input type="checkbox"/> Withdraw catheter from scope	Yes / No Score ____/10
<b>9. TBNA Technique -Piggyback: (no partial points)</b> <input type="checkbox"/> Secure catheter and scope simultaneously with one hand <input type="checkbox"/> Advance scope and catheter as a single unit to target region <input type="checkbox"/> Penetrate airway wall at target region <input type="checkbox"/> Move needle back and forth inside node while suctioning <input type="checkbox"/> Release suction prior to needle withdrawal from target region <input type="checkbox"/> Retract needle into the catheter <input type="checkbox"/> Observe that needle is completely retracted inside catheter <input type="checkbox"/> Withdraw catheter from scope	Yes / No Score ____/10
<b>10. TBNA: Decision making: (5 points each, target 10 points)</b> <input type="checkbox"/> Image 4 <input type="checkbox"/> Image 5	Yes / No Score ____/10

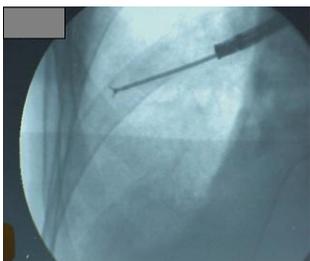
\* The combined use of the 10 items pertains to technical skills needed to climb learning curve from novice to advanced beginner to intermediate to competent bronchoscopist able to perform flexible bronchoscopy with transbronchial lung biopsy and transbronchial needle aspiration independently.

**FINAL GRADE**      **PASS**      **FAIL**      **SCORE** \_\_\_\_\_/100

NAME \_\_\_\_\_

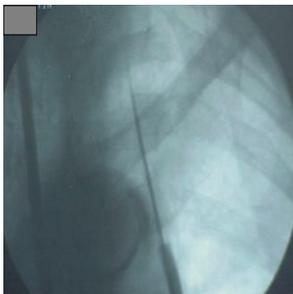
**ITEM 5: Choose One best answer for each question**

1. The target region is most likely (A) RB1, (B) RB6, (C) RB9, (D) RB10,



Answer \_\_\_\_\_

2. The target region is the (A) apical-posterior segment left upper lobe, (B) Lingula, (C) Right upper lobe



Answer \_\_\_\_\_

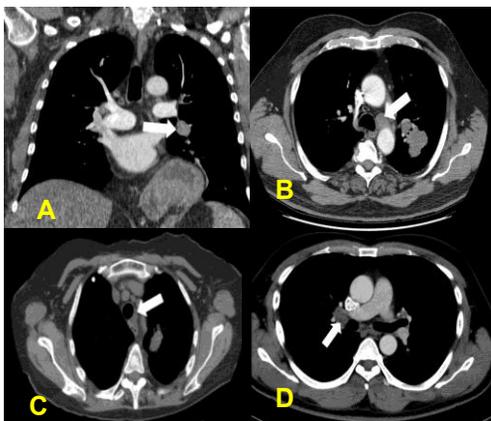
3. Which region should be biopsied in this immuno-suppressed patient with suspected fungal disease ?



Answer \_\_\_\_\_

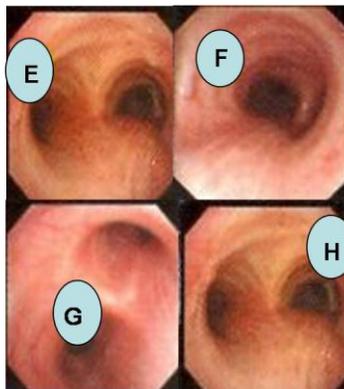
**ITEM 10: Choose One best answer for each question**

4. During conventional TBNA, which of the following lymph nodes will likely offer the highest diagnostic yield for nonsmall cell lung cancer ?



Answer \_\_\_\_\_

5. Where is the node located (needle insertion site E, F,G, or H)?



Answer \_\_\_\_\_