

Blue Cross Blue Shield of Massachusetts is an Independent Licensee of the Blue Cross and Blue Shield Association

Medical Policy Endobronchial Ultrasound for Diagnosis and Staging of Lung Cancer

Table of Contents

- Policy: Commercial
- Policy: Medicare
- <u>Authorization Information</u>
- Coding Information

Description

Policy History

•

•

- Information Pertaining to All Policies
- References

Policy Number: 715

BCBSA Reference Number: 6.01.58 (For Plan internal use only) NCD/LCD: N/A

Related Policies

Electromagnetic Navigation Bronchoscopy, #203

Policy

Commercial Members: Managed Care (HMO and POS), PPO, and Indemnity Medicare HMO BlueSM and Medicare PPO BlueSM Members

Endobronchial ultrasound guidance with transbronchial needle aspiration (EBUS-TBNA) may be considered <u>MEDICALLY NECESSARY</u> for the evaluation of peripheral pulmonary lesions in individuals with suspected lung cancer when all of the following criteria are met:

- Tissue biopsy of the peripheral pulmonary lesion is required for diagnosis
- The peripheral pulmonary lesion is not accessible using standard bronchoscopic techniques.

EBUS-TBNA Endobronchial ultrasound guidance with transbronchial needle biopsy is considered <u>MEDICALLY NECESSARY</u> for mediastinal staging in individuals with diagnosed lung cancer when all of the following criteria are met:

- The individual is suitable and willing to undergo specific treatment for lung cancer, with either curative or palliative intent
- Tissue biopsy of abnormal mediastinal lymph nodes seen on imaging is required for staging and specific treatment planning
- Abnormal lymph nodes seen on imaging are accessible by EBUS-TBNA biopsy.

Endobronchial ultrasound is considered **INVESTIGATIONAL** for diagnosis and staging of lung cancer when the above criteria are not met.

Endobronchial ultrasound is considered **INVESTIGATIONAL** for all other indications.

Prior Authorization Information

Inpatient

 For services described in this policy, precertification/preauthorization <u>IS REQUIRED</u> for all products if the procedure is performed <u>inpatient</u>.

Outpatient

 For services described in this policy, see below for products where prior authorization <u>might be</u> <u>required</u> if the procedure is performed <u>outpatient</u>.

	Outpatient
Commercial Managed Care (HMO and POS)	Prior authorization is not required .
Commercial PPO and Indemnity	Prior authorization is not required .
Medicare HMO Blue sM	Prior authorization is not required .
Medicare PPO Blue SM	Prior authorization is not required .

CPT Codes / HCPCS Codes / ICD Codes

Inclusion or exclusion of a code does not constitute or imply member coverage or provider reimbursement. Please refer to the member's contract benefits in effect at the time of service to determine coverage or non-coverage as it applies to an individual member.

Providers should report all services using the most up-to-date industry-standard procedure, revenue, and diagnosis codes, including modifiers where applicable.

The following codes are included below for informational purposes only; this is not an all-inclusive list.

The above <u>medical necessity criteria MUST</u> be met for the following codes to be covered for Commercial Members: Managed Care (HMO and POS), PPO, Indemnity, Medicare HMO Blue and Medicare PPO Blue:

CPT codes:	Code Description
31652	Bronchoscopy, rigid or flexible, including fluoroscopic guidance, when performed; with endobronchial ultrasound (ebus) guided transtracheal and/or transbronchial sampling (eg, aspiration[s]/biopsy[ies]), one or two mediastinal and/or hilar lymph node stations or structures
31653	Bronchoscopy, rigid or flexible, including fluoroscopic guidance, when performed; with endobronchial ultrasound (ebus) guided transtracheal and/or transbronchial sampling (eg, aspiration[s]/biopsy[ies]), 3 or more mediastinal and/or hilar lymph node stations or structures
31654	Bronchoscopy, rigid or flexible, including fluoroscopic guidance, when performed; with transendoscopic endobronchial ultrasound (ebus) during bronchoscopic diagnostic or therapeutic intervention(s) for peripheral lesion(s) (list separately in addition to code for primary procedure[s])

CPT Codes

ICD-10 Diagnosis Codes

ICD-10-CM Diagnosis	
codes:	Code Description
C34.00	Malignant neoplasm of unspecified main bronchus
C15.9	Malignant Neoplasm of Esophagus Unspecified
C34.01	Malignant neoplasm of right main bronchus
C34.02	Malignant neoplasm of left main bronchus
C34.10	Malignant neoplasm of upper lobe, unspecified bronchus or lung

C34.12 Malignant neoplasm of upper lobe, left bronchus or lung C34.2 Malignant neoplasm of middle lobe, bronchus or lung C34.30 Malignant neoplasm of lower lobe, unspecified bronchus or lung C34.31 Malignant neoplasm of lower lobe, left bronchus or lung C34.32 Malignant neoplasm of overlapping sites of unspecified bronchus and lung C34.80 Malignant neoplasm of overlapping sites of inspecified bronchus and lung C34.81 Malignant neoplasm of overlapping sites of left bronchus and lung C34.82 Malignant neoplasm of unspecified part of unspecified bronchus or lung C34.90 Malignant neoplasm of unspecified part of left bronchus or lung C34.91 Malignant neoplasm of unspecified part of left bronchus or lung C34.92 Malignant Neoplasm Of Mediastinum Part Unspecified C45.0 Mesothelioma Of Pleura C77.1 Secondary Malignant Neoplasm Of unspecified lung C77.3 Sec And Unsp Malignant Neoplasm Of rultrathorac Nodes C78.00 Secondary malignant neoplasm of neplasm of rultrathorac C78.1 Secondary malignant neoplasm of pleura C78.2 Secondary malignant neoplasm of pleura C78.1 Secondary malignant neoplasm of Ingli Lung C78.2 S	C34.11	Malignant neoplasm of upper lobe, right bronchus or lung
C34.2 Malignant neoplasm of iniddle lobe, bronchus or lung C34.30 Malignant neoplasm of lower lobe, unspecified bronchus or lung C34.31 Malignant neoplasm of lower lobe, light bronchus or lung C34.32 Malignant neoplasm of lower lobe, light bronchus or lung C34.80 Malignant neoplasm of overlapping sites of unspecified bronchus and lung C34.81 Malignant neoplasm of overlapping sites of light bronchus and lung C34.82 Malignant neoplasm of overlapping sites of light bronchus and lung C34.92 Malignant neoplasm of unspecified part of unspecified bronchus or lung C34.92 Malignant neoplasm of unspecified part of light bronchus or lung C34.92 Malignant Neoplasm Of Mediastinum Part Unspecified C75.5 Malignant Neoplasm Of Arotic Body And Other Paraganglia C77.1 Secondary Malignant neoplasm of inght lung C78.00 Secondary malignant neoplasm of right lung C78.11 Secondary malignant neoplasm of mediastinum C78.12 Secondary malignant neoplasm of mediastinum C78.13 Secondary malignant neoplasm of mediastinum C78.2 Secondary malignant neoplasm of mediastinum C78.1 Secondary malignant neoplasm of pleura C78.30 Secondary		
C34.30Malignant neoplasm of lower lobe, unspecified bronchus or lungC34.31Malignant neoplasm of lower lobe, light bronchus or lungC34.32Malignant neoplasm of lower lobe, light bronchus or lungC34.80Malignant neoplasm of overlapping sites of unspecified bronchus and lungC34.81Malignant neoplasm of overlapping sites of left bronchus and lungC34.82Malignant neoplasm of overlapping sites of left bronchus and lungC34.90Malignant neoplasm of unspecified part of unspecified bronchus or lungC34.91Malignant neoplasm of unspecified part of left bronchus or lungC34.92Malignant neoplasm of unspecified part of left bronchus or lungC34.93Malignant Neoplasm Of Mediastinum Part UnspecifiedC45.0Mesothelioma Of PleuraC77.1Secondary And Unsp Malignant Neoplasm Of Aortic Body And Other ParagangliaC77.1Secondary malignant neoplasm of right lungC78.00Secondary malignant neoplasm of right lungC78.11Secondary malignant neoplasm of mediastinumC78.2Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of pleuraC78.31Secondary malignant neoplasm of pleuraC78.32Secondary malignant neoplasm of pleuraC78.33Secondary malignant neoplasm of pleuraC78.34Secondary malignant neoplasm of pleuraC78.35Secondary malignant neoplasm of unspecified respiratory organC78.39Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of unspecified respiratory organsC7A.690<		
C34.31Malignant neoplasm of lower lobe, right bronchus or lungC34.32Malignant neoplasm of overlapping sites of unspecified bronchus and lungC34.80Malignant neoplasm of overlapping sites of right bronchus and lungC34.81Malignant neoplasm of overlapping sites of right bronchus and lungC34.82Malignant neoplasm of overlapping sites of right bronchus or lungC34.90Malignant neoplasm of overlapping sites of right bronchus or lungC34.91Malignant neoplasm of unspecified part of right bronchus or lungC34.92Malignant neoplasm of unspecified part of left bronchus or lungC34.93Malignant Neoplasm Of Mediastinum Part UnspecifiedC45.0Mesothelioma Of PleuraC75.5Malignant Neoplasm Of Aortic Body And Other ParagangliaC77.1Secondary And Unsp Malignant Neoplasm Of Axilla And Upper Limb NodesC78.00Secondary malignant neoplasm of Intrathorac NodesC78.01Secondary malignant neoplasm of IdediastinumC78.1Secondary malignant neoplasm of IdediastinumC78.2Secondary malignant neoplasm of IdediastinumC78.30Secondary malignant neoplasm of Inspecified respiratory organC78.39Secondary malignant neoplasm of Inspecified respiratory organC78.48Malignant Neoplasm Of MediastinumC78.2Secondary malignant neoplasm of Inspecified respiratory organC78.30Secondary malignant neoplasm of Inspecified respiratory organC78.39Secondary malignant neoplasm of MediastinumC78.42Secondary malignant neoplasm of Inspecified respiratory organC78		
C34.32 Malignant neoplasm of lower lobe, left bronchus or lung C34.80 Malignant neoplasm of overlapping sites of unspecified bronchus and lung C34.81 Malignant neoplasm of overlapping sites of left bronchus and lung C34.82 Malignant neoplasm of overlapping sites of left bronchus and lung C34.90 Malignant neoplasm of unspecified part of unspecified bronchus or lung C34.91 Malignant neoplasm of unspecified part of left bronchus or lung C34.92 Malignant neoplasm of unspecified part of left bronchus or lung C38.3 Malignant Neoplasm Of Addition Part Unspecified C45.0 Mesothelioma Of Pleura C75.5 Malignant Neoplasm Of Addition Body And Other Paraganglia C77.1 Secondary Malignant Neoplasm Of Intrathorac Nodes C77.3 Sec And Unsp Malignant neoplasm of right lung C78.00 Secondary malignant neoplasm of right lung C78.1 Secondary malignant neoplasm of pleura C78.2 Secondary malignant neoplasm of unspecified respiratory organ C78.1 Secondary malignant neoplasm of right lung C78.2 Secondary malignant neoplasm of mediastinum C78.3 Secondary malignant neoplasm of supericified respiratory organ C78.3 Secondary maligna		
C34.80Malignant neoplasm of overlapping sites of unspecified bronchus and lungC34.81Malignant neoplasm of overlapping sites of right bronchus and lungC34.82Malignant neoplasm of overlapping sites of left bronchus and lungC34.90Malignant neoplasm of unspecified part of unspecified bronchus or lungC34.91Malignant neoplasm of unspecified part of right bronchus or lungC34.92Malignant neoplasm of unspecified part of left bronchus or lungC38.3Malignant Neoplasm Of Mediastinum Part UnspecifiedC45.0Mesothelioma Of PleuraC75.5Malignant Neoplasm Of Aortic Body And Other ParagangliaC77.1Secondary And Unsp Malignant Neoplasm Of Intrathorac NodesC78.00Secondary malignant neoplasm of unspecified lungC78.01Secondary malignant neoplasm of inght lungC78.11Secondary malignant neoplasm of flet lungC78.2Secondary malignant neoplasm of flet lungC78.3Secondary malignant neoplasm of pleuraC78.4Secondary malignant neoplasm of other respiratory organC78.2Secondary malignant neoplasm of other respiratory organC78.3Secondary malignant neoplasm of other respiratory organC78.4Other Malignant Neuroendocrine TumorsC78.3Secondary malignant neoplasm of unspecified respiratory organC78.4Secondary malignant neoplasm of other respiratory organC78.4Secondary malignant neoplasm of unspecified respiratory organC78.5Secondary malignant neoplasm of unspecified respiratory organC78.4Secondary malignant neoplasm of unsp		
C34.81Malignant neoplasm of overlapping sites of right bronchus and lungC34.82Malignant neoplasm of overlapping sites of left bronchus or lungC34.90Malignant neoplasm of unspecified part of unspecified bronchus or lungC34.91Malignant neoplasm of unspecified part of left bronchus or lungC34.92Malignant neoplasm of unspecified part of left bronchus or lungC38.3Malignant Neoplasm Of Mediastinum Part UnspecifiedC45.0Mesothelioma Of PleuraC75.5Malignant Neoplasm Of Aortic Body And Other ParagangliaC77.1Secondary And Unsp Malignant Neoplasm Of Intrathorac NodesC78.00Secondary Malignant neoplasm of unspecified lungC78.01Secondary malignant neoplasm of right lungC78.11Secondary malignant neoplasm of flet lungC78.12Secondary malignant neoplasm of nediastinumC78.13Secondary malignant neoplasm of pleuraC78.14Secondary malignant neoplasm of pleuraC78.25Secondary malignant neoplasm of unspecified respiratory organC78.30Secondary malignant neoplasm of unspecified respiratory organC78.31Secondary malignant neoplasm of unspecified respiratory organC78.26Secondary malignant neoplasm of other respiratory organsC74.80Malignant Carcinoid Tumor Of The Bronchus And LungC74.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Uperphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of left bronchus and lung		
C34.82Malignant neoplasm of overlapping sites of left bronchus and lungC34.90Malignant neoplasm of unspecified part of unspecified bronchus or lungC34.91Malignant neoplasm of unspecified part of left bronchus or lungC34.92Malignant neoplasm of unspecified part of left bronchus or lungC34.93Malignant neoplasm of Mediastinum Part UnspecifiedC45.0Mesothelioma Of PleuraC75.5Malignant Neoplasm Of Aortic Body And Other ParagangliaC77.1Secondary And Unsp Malignant Neoplasm Of Axilla And Upper Limb NodesC77.3Sec And Unsp Malig Neoplasm Of Axilla And Upper Limb NodesC78.00Secondary malignant neoplasm of inspecified lungC78.01Secondary malignant neoplasm of right lungC78.11Secondary malignant neoplasm of flet lungC78.1Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of unspecified respiratory organC78.31Secondary malignant neoplasm of pleuraC78.32Secondary malignant neoplasm of unspecified respiratory organC78.33Secondary malignant neoplasm of unspecified respiratory organC78.39Secondary malignant neoplasm of unspecified respiratory organC78.39Secondary malignant neoplasm of unspecified respiratory organC78.48Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplam Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of left bronchus		
C34.90Malignant neoplasm of unspecified part of unspecified bronchus or lungC34.91Malignant neoplasm of unspecified part of right bronchus or lungC34.92Malignant neoplasm of unspecified part of left bronchus or lungC38.3Malignant Neoplasm Of Mediastinum Part UnspecifiedC45.0Mesothelioma Of PleuraC75.5Malignant Neoplasm Of Aortic Body And Other ParagangliaC77.1Secondary And Unsp Malignant Neoplasm Of Intrathorac NodesC78.00Secondary malignant neoplasm of unspecified lungC78.01Secondary malignant neoplasm of unspecified lungC78.02Secondary malignant neoplasm of left lungC78.1Secondary malignant neoplasm of left lungC78.2Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of fleuraC78.30Secondary malignant neoplasm of left argC78.30Secondary malignant neoplasm of leuraC78.30Secondary malignant neoplasm of unspecified respiratory organC78.39Secondary malignant neoplasm of unspecified respiratory organC78.30Secondary malignant neoplasm of unspecified respiratory organC78.39Secondary malignant neoplasm of unspecified respiratory organC74.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bron		
C34.91Malignant neoplasm of unspecified part of right bronchus or lungC34.92Malignant neoplasm of unspecified part of left bronchus or lungC38.3Malignant Neoplasm Of Mediastinum Part UnspecifiedC45.0Mesothelioma Of PleuraC75.5Malignant Neoplasm Of Aortic Body And Other ParagangliaC77.1Secondary And Unsp Malignant Neoplasm Of Intrathorac NodesC77.3Sec And Unsp Malig Neoplasm Of Axilla And Upper Limb NodesC78.00Secondary malignant neoplasm of unspecified lungC78.01Secondary malignant neoplasm of right lungC78.02Secondary malignant neoplasm of flet lungC78.1Secondary malignant neoplasm of pleuraC78.2Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of pleuraC78.39Secondary malignant neoplasm of other respiratory organC74.8Other Malignant Neuroendocrine TumorsC74.8Other Malignant Neuroendocrine TumorsC74.8Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of right bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD33.3Neoplasm of uncertain Behavior of trachea, bronchus and lungD34.1Neoplasm of uncertain Behavior of trachea, bronchus and lungD44.2Hemoptysis		
C34.92Malignant neoplasm of unspecified part of left bronchus or lungC38.3Malignant Neoplasm Of Mediastinum Part UnspecifiedC45.0Mesothelioma Of PleuraC75.5Malignant Neoplasm Of Aortic Body And Other ParagangliaC77.1Secondary And Unsp Malignant Neoplasm Of Intrathorac NodesC77.3Sec And Unsp Malig Neoplasm Of Axilla And Upper Limb NodesC78.00Secondary malignant neoplasm of unspecified lungC78.01Secondary malignant neoplasm of inspecified lungC78.12Secondary malignant neoplasm of left lungC78.1Secondary malignant neoplasm of pleuraC78.2Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of unspecified respiratory organC78.31Secondary malignant neoplasm of unspecified respiratory organC78.2Secondary malignant neoplasm of other respiratory organsC78.39Secondary malignant neoplasm of unspecified respiratory organC78.30Secondary malignant neoplasm of unspecified respiratory organsC78.31Secondary malignant neoplasm of unspecified respiratory organC78.32Secondary malignant neoplasm of unspecified respiratory organC78.33Secondary malignant neoplasm of unspecified respiratory organC78.4Other Malignant Neuroendocrine TumorsC78.5Carcinoma in situ of unspecified bronchus and lungD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.1		
C38.3Malignant Neoplasm Of Mediastinum Part UnspecifiedC45.0Mesothelioma Of PleuraC75.5Malignant Neoplasm Of Aortic Body And Other ParagangliaC77.1Secondary And Unsp Malignant Neoplasm Of Intrathorac NodesC77.3Sec And Unsp Malig Neoplasm Of Axilla And Upper Limb NodesC77.3Sec And Unsp Malig Neoplasm Of Axilla And Upper Limb NodesC78.00Secondary malignant neoplasm of unspecified lungC78.01Secondary malignant neoplasm of right lungC78.1Secondary malignant neoplasm of PleuraC78.1Secondary malignant neoplasm of MediastinumC78.2Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of unspecified respiratory organC78.30Secondary malignant neoplasm of other respiratory organsC78.30Secondary malignant neoplasm of unspecified respiratory organsC78.30Secondary malignant neoplasm of unspecified respiratory organsC78.30Secondary malignant neoplasm of unspecified respiratory organsC78.30Malignant Carcinoid Tumor Of The Bronchus And LungC7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplem Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of right bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm of Uncertain Behavior Of MediastinumD49.1Neoplasm of unspecified behavi		
C45.0Mesothelioma Of PleuraC75.5Malignant Neoplasm Of Aortic Body And Other ParagangliaC77.1Secondary And Unsp Malignant Neoplasm Of Intrathorac NodesC77.3Sec And Unsp Malig Neoplasm Of Axilla And Upper Limb NodesC78.00Secondary malignant neoplasm of unspecified lungC78.01Secondary malignant neoplasm of right lungC78.02Secondary malignant neoplasm of left lungC78.1Secondary malignant neoplasm of mediastinumC78.1Secondary malignant neoplasm of MediastinumC78.2Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of other respiratory organC78.39Secondary malignant neoplasm of other respiratory organsC7A.800Malignant Carcinoid Tumor Of The Bronchus And LungC7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of left bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis		
C75.5Malignant Neoplasm Of Aortic Body And Other ParagangliaC77.1Secondary And Unsp Malignant Neoplasm Of Intrathorac NodesC77.3Sec And Unsp Malig Neoplasm Of Axilla And Upper Limb NodesC78.00Secondary malignant neoplasm of unspecified lungC78.01Secondary malignant neoplasm of right lungC78.02Secondary malignant neoplasm of left lungC78.1Secondary malignant neoplasm of mediastinumC78.2Secondary Malignant Neoplasm Of MediastinumC78.3Secondary malignant neoplasm of pleuraC78.4Secondary malignant neoplasm of of the respiratory organC78.5Secondary malignant neoplasm of other respiratory organsC78.6Secondary malignant neoplasm of other respiratory organsC78.7Secondary malignant neoplasm of other respiratory organsC78.8Secondary malignant neoplasm of other respiratory organsC7A.900Malignant Carcinoid Tumor Of The Bronchus And LungC7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD38.1Neoplasm of uncertain Behavior of trachea, bronchus and lungD38.3Neoplasm of uncertain Behavior of respiratory systemR04.2Hemoptysis	C38.3	Malignant Neoplasm Of Mediastinum Part Unspecified
C77.1Secondary And Unsp Malignant Neoplasm Of Intrathorac NodesC77.3Sec And Unsp Malig Neoplasm Of Axilla And Upper Limb NodesC78.00Secondary malignant neoplasm of unspecified lungC78.01Secondary malignant neoplasm of right lungC78.02Secondary malignant neoplasm of left lungC78.1Secondary malignant neoplasm of mediastinumC78.2Secondary Malignant Neoplasm Of MediastinumC78.30Secondary malignant neoplasm of pleuraC78.4Secondary malignant neoplasm of pleuraC78.5Secondary malignant neoplasm of other respiratory organC78.6Secondary malignant neoplasm of other respiratory organsC78.7Secondary malignant neoplasm of other respiratory organsC78.8Secondary malignant neoplasm of other respiratory organsC7A.900Malignant Carcinoid Tumor Of The Bronchus And LungC7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplem Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis	C45.0	
C77.3Sec And Unsp Malig Neoplasm Of Axilla And Upper Limb NodesC78.00Secondary malignant neoplasm of unspecified lungC78.01Secondary malignant neoplasm of right lungC78.02Secondary malignant neoplasm of left lungC78.1Secondary malignant neoplasm of mediastinumC78.1Secondary Malignant Neoplasm Of MediastinumC78.2Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of negiastinumC78.30Secondary malignant neoplasm of unspecified respiratory organC78.39Secondary malignant neoplasm of other respiratory organsC7A.090Malignant Carcinoid Tumor Of The Bronchus And LungC7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.22Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis	C75.5	Malignant Neoplasm Of Aortic Body And Other Paraganglia
C78.00Secondary malignant neoplasm of unspecified lungC78.01Secondary malignant neoplasm of right lungC78.02Secondary malignant neoplasm of left lungC78.1Secondary malignant neoplasm of mediastinumC78.1Secondary Malignant Neoplasm Of MediastinumC78.2Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of unspecified respiratory organC78.39Secondary malignant neoplasm of other respiratory organsC7A.090Malignant Carcinoid Tumor Of The Bronchus And LungC7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis	C77.1	Secondary And Unsp Malignant Neoplasm Of Intrathorac Nodes
C78.01Secondary malignant neoplasm of right lungC78.02Secondary malignant neoplasm of left lungC78.1Secondary malignant neoplasm of mediastinumC78.1Secondary Malignant Neoplasm Of MediastinumC78.2Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of unspecified respiratory organC78.39Secondary malignant neoplasm of other respiratory organsC7A.690Malignant Carcinoid Tumor Of The Bronchus And LungC7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain Behavior of trachea, bronchus and lungD38.3Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis	C77.3	Sec And Unsp Malig Neoplasm Of Axilla And Upper Limb Nodes
C78.02Secondary malignant neoplasm of left lungC78.1Secondary malignant neoplasm of mediastinumC78.1Secondary Malignant Neoplasm Of MediastinumC78.2Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of unspecified respiratory organC78.39Secondary malignant neoplasm of other respiratory organsC7A.090Malignant Carcinoid Tumor Of The Bronchus And LungC7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis	C78.00	Secondary malignant neoplasm of unspecified lung
C78.1Secondary malignant neoplasm of mediastinumC78.1Secondary Malignant Neoplasm Of MediastinumC78.2Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of unspecified respiratory organC78.39Secondary malignant neoplasm of other respiratory organsC7A.090Malignant Carcinoid Tumor Of The Bronchus And LungC7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis	C78.01	Secondary malignant neoplasm of right lung
C78.1Secondary Malignant Neoplasm Of MediastinumC78.2Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of unspecified respiratory organC78.39Secondary malignant neoplasm of other respiratory organsC7A.090Malignant Carcinoid Tumor Of The Bronchus And LungC7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain Behavior of trachea, bronchus and lungD38.3Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis	C78.02	Secondary malignant neoplasm of left lung
C78.2Secondary malignant neoplasm of pleuraC78.30Secondary malignant neoplasm of unspecified respiratory organC78.39Secondary malignant neoplasm of other respiratory organsC7A.090Malignant Carcinoid Tumor Of The Bronchus And LungC7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis	C78.1	Secondary malignant neoplasm of mediastinum
C78.30Secondary malignant neoplasm of unspecified respiratory organC78.39Secondary malignant neoplasm of other respiratory organsC7A.090Malignant Carcinoid Tumor Of The Bronchus And LungC7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis	C78.1	Secondary Malignant Neoplasm Of Mediastinum
C78.39Secondary malignant neoplasm of other respiratory organsC7A.090Malignant Carcinoid Tumor Of The Bronchus And LungC7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm Of Uncertain Behavior Of MediastinumD49.1Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis	C78.2	Secondary malignant neoplasm of pleura
C78.39Secondary malignant neoplasm of other respiratory organsC7A.090Malignant Carcinoid Tumor Of The Bronchus And LungC7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm Of Uncertain Behavior Of MediastinumD49.1Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis	C78.30	Secondary malignant neoplasm of unspecified respiratory organ
C7A.090Malignant Carcinoid Tumor Of The Bronchus And LungC7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm Of Uncertain Behavior Of MediastinumD49.1Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis	C78.39	
C7A.8Other Malignant Neuroendocrine TumorsC85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm Of Uncertain Behavior Of MediastinumD49.1Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis		
C85.28Mediastinal (Thymic) Large B-Cell Lymphoma Nodes Mult SiteC96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD03.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm Of Uncertain Behavior Of MediastinumD49.1Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis	C7A.8	
C96.9Malig Neoplm Of Lymphoid Hematpoetc And Rel Tissue UnspD02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm Of Uncertain Behavior Of MediastinumD49.1Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis	C85.28	
D02.20Carcinoma in situ of unspecified bronchus and lungD02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm Of Uncertain Behavior Of MediastinumD49.1Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis		
D02.21Carcinoma in situ of right bronchus and lungD02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm Of Uncertain Behavior Of MediastinumD49.1Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis		
D02.22Carcinoma in situ of left bronchus and lungD38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm Of Uncertain Behavior Of MediastinumD49.1Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis		
D38.1Neoplasm of uncertain behavior of trachea, bronchus and lungD38.3Neoplasm Of Uncertain Behavior Of MediastinumD49.1Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis		
D38.3Neoplasm Of Uncertain Behavior Of MediastinumD49.1Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis		
D49.1Neoplasm of unspecified behavior of respiratory systemR04.2Hemoptysis		
R04.2 Hemoptysis		
	R91.1	Solitary pulmonary nodule

Description

Lung Cancer

Individuals who are suspected of having lung cancer may present with widely differing signs and symptoms related to the type of cancer (eg, non-small-cell lung cancer [NSCLC] vs. small-cell lung cancer), its location within the lung, and the stage of disease (ie, localized, locoregionally advanced, metastatic). All 3 of the major parameters of type, location, and the stage will dictate subsequent management of cancer, determining whether it is primarily surgical or requires systemic chemotherapy. Early diagnosis of lung cancer is essential because there is uniformly poor prognosis when cancer is diagnosed later in the disease course.

Approximately 75% to 80% of newly diagnosed lung cancers are NSCLC. The clinical presentation and findings on computed tomography (CT) or a fluorine 18 fluorodeoxyglucose positron emission tomography (PET) scan of the chest will typically permit a presumptive diagnosis of lung cancer and differentiation between NSCLC and small-cell lung cancer. If small-cell lung cancer is suspected based on radiographic

characteristics and other clinical findings, a diagnosis is made by whatever means is the least invasive (eg, sputum cytology, thoracentesis if an accessible pleural effusion is present, fine-needle aspiration of a supraclavicular node).¹. The diagnostic technique to evaluate suspected NSCLC is usually dictated by the apparent stage of the disease. Non-small cell lung cancer can present with extensive infiltration of the mediastinum, defined as a mass with no visible lymph nodes, or it may present as a solitary pulmonary nodule that may be bronchogenic or peripheral. In any patient with suspected NSCLC, the diagnosis should be established by the method that has the most favorable risk-benefit ratio.¹.

Diagnosis of Peripheral Pulmonary Nodules

Solitary pulmonary lesions are typically identified on plain chest radiographs or chest CT scans, often incidentally. Although most of these nodules will be benign, some will be cancerous. Peripheral lung lesions and solitary pulmonary nodules (most often defined as asymptomatic nodules less than 8 mm) are more difficult to evaluate than larger, centrally located lesions. There are several options for diagnosis; however, none of the methods are ideal for safely and accurately diagnosing malignant disease in all patients.². Sputum cytology is the least invasive approach.¹. Reported sensitivity rates are relatively low and vary widely across studies, and sensitivity is even lower for peripheral lesions. Sputum cytology, however, has a high specificity, and a positive test may obviate the need for more invasive testing.

Flexible bronchoscopy, a minimally invasive procedure, is the most common approach to evaluating pulmonary nodules. The sensitivity of flexible bronchoscopy for diagnosing bronchogenic carcinoma has been estimated at 88% for central lesions and 78% for peripheral lesions.² For small peripheral lesions less than 1.5 cm in diameter, the sensitivity may be as low as 10%, due to the inability to reach into smaller bronchioles.

Transthoracic (percutaneous) needle aspiration, using CT guidance, can be performed for peripheral nodules that are beyond the reach of traditional bronchoscopy. The diagnostic accuracy of transthoracic needle aspiration tends to be as high or higher than that of flexible bronchoscopy for peripheral lesions; the sensitivity and specificity are both greater than 90%.² A disadvantage of transthoracic needle aspiration is that a pneumothorax could occur in as many as 15% of patients (range, 1% to 15%). Between 1% and 7% will require chest tube insertion. Positron emission tomography scans are also highly sensitive for evaluating pulmonary nodules yet may miss small lesions less than 1 cm in size. Surgical lung biopsy is the criterion standard for diagnosing pulmonary nodules but is an invasive procedure not indicated for all patients.

Staging of Lung Cancer and Assessment of Mediastinal Involvement

The stage of lung cancer (its extent through the body) at diagnosis will directly impact the management approach for each patient.^{3.4.} The first step in staging is to identify whether the patient has the distant metastatic disease (M stage) or if the tumor is confined to the chest; this will determine whether treatment should be aimed at palliation or at a potential cure, respectively. If the primary tumor is confined (T stage), determining whether the mediastinal lymph nodes (N stage) are involved is a crucial factor in guiding therapy.

As with diagnostic procedures, there are a number of options for mediastinal staging. The choice of a noninvasive or invasive staging method is dictated by the patient's condition and whether he or she can tolerate or will elect surgery. Thus, staging procedures may be based on noninvasive imaging methods (ie, CT or PET, or combined PET-CT), or may be fully invasive, such as a mediastinoscopy – a surgical procedure that is performed under general anesthesia and is regarded as the reference standard for staging lung cancer.³

Recent advances in technology have led to enhancements that may increase the yield of established needle-based diagnostic methods that represent a third approach, between noninvasive and surgical procedures.¹ Computed tomography scanning equipment can be used to guide flexible bronchoscopy and bronchoscopic transbronchial needle biopsy but has the disadvantage of exposing the patient and staff to radiation.

Endobronchial Ultrasound with Transthoracic Needle Aspiration

Among its potential applications, endobronchial ultrasound (EBUS) using ultrasound probes can locate and guide the sampling of pulmonary lesions and mediastinal lymphadenopathy.

There are 2 distinct types of transducers used for EBUS that have specific uses: radial probe and convex probe.

A radial probe EBUS comprises a 20- or 30-MHz rotating transducer to provide high-resolution 360° radial images. The probe is inserted into the airways via a standard therapeutic bronchoscope. With the use of an ultrathin bronchoscope combined with radial probe EBUS through a guide sheath, an endoscopist can reach and visualize the sixth- to eighth-generation bronchi, whereas a traditional bronchoscope can only reach the fourth-generation bronchi. The use of radial probe EBUS imaging allows the physician to verify visually that a lesion has been reached and to maintain a position in the periphery to allow a needle biopsy to be performed for diagnosis.⁵. These probes do not allow real-time imaging during the biopsy. For biopsy or tissue sampling, the target area is located by radial probe EBUS; the radial probe is subsequently retracted and is replaced with a biopsy or sampling device.

Convex probe EBUS transducers are adjustable within a frequency range of 5 to 12 MHz. Such transducers are incorporated into the structure of a dedicated bronchoscope and provide real-time pie-slice sector views of 50° to 60° parallel to the axis of the bronchoscope. Convex probe EBUS with transbronchial needle aspiration (EBUS-TBNA) also can be used for staging the mediastinal nodes.⁶ The curved linear probe technology allows real-time visualization and needle aspiration of a lesion. Because EBUS-TBNA of the mediastinal nodes may be performed under conscious sedation, it may be used in patients who are not surgical candidates but for whom accurate staging is needed to guide choice among systemic treatments, particularly targeted systemic agents such as tyrosine kinase inhibitors.⁷

Summary

Description

Endobronchial ultrasound (EBUS) is an imaging technique for adjunctive use with standard flexible bronchoscopy. It provides an ultrasound-generated image of the lungs beyond the airway walls, extending to peribronchial structures and distal peripheral lung lesions. The purpose of EBUS is to facilitate navigation to distal regions of the lungs and biopsy of peripheral pulmonary nodules, especially suspected cancerous lesions. Another intended use of EBUS is to localize and facilitate biopsy of the mediastinal lymph nodes as part of staging for non-small-cell lung cancer. Both techniques primarily use transbronchial needle aspiration (TBNA) of lesions to obtain tissue samples.

Summary of Evidence

For individuals who have peripheral pulmonary lesions and suspected lung cancer who receive endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-TBNA) for diagnosis, the evidence includes recent systematic reviews, meta-analyses, and 2 small randomized trials. Relevant outcomes are overall survival, disease-specific survival, test accuracy and validity, and morbid events. Evidence supports a conclusion that EBUS-TBNA has diagnostic performance characteristics for solitary pulmonary lesions similar to those of traditional flexible bronchoscopy with transthoracic needle aspiration. The evidence also indicates that the safety profile of EBUS-TBNA may be better than the profile of other techniques, as reflected by pneumothorax and chest tube insertion rates. The evidence is sufficient to determine that the technology results in an improvement in the net health outcome.

For individuals who have lung cancer and mediastinal lymph nodes are seen on imaging who receive EBUS-TBNA for staging, the evidence includes systematic reviews and meta-analyses. Relevant outcomes are overall survival, disease-specific survival, test accuracy and validity, and morbid events. Evidence from systematic reviews supports a conclusion that EBUS-TBNA exhibits test performance characteristics similar to other needle-based methods used to stage the mediastinum in patients diagnosed with lung cancer. The evidence is sufficient to determine that the technology results in an improvement in the net health outcome.

Policy History

I Oncy matory	
Date	Action
11/2024	Annual policy review. Policy updated with literature review through July 10, 2024; no
	references added. Policy statements unchanged. Coding information clarified.
1/2024	Coding information clarified.
11/2023	Annual policy review. Policy updated with literature review through July 14, 2023; no
	references added. Minor editorial refinements to policy statements; intent
	unchanged.
11/2022	Annual policy review. No references added. Policy statements unchanged.
10/2021	Annual policy review. Policy statements unchanged.
11/2020	Annual policy review. Description, summary, and references updated. Policy
	statements unchanged.
10/2019	Annual policy review. Description, summary, and references updated. Policy
	statements unchanged.
10/2018	Annual policy review. Description, summary, and references updated. Policy
	statements unchanged.
10/2017	Annual policy review. New references added.
3/2016	Annual policy review. New references added.
1/2016	Clarified coding information.
11/2015	Policy statements clarified that all of the criteria in the policy need to be met.
	11/2015.
4/2015	New medical policy describing medically necessary, not medically necessary and
	investigational indications. Effective 4/1/2015.

Information Pertaining to All Blue Cross Blue Shield Medical Policies

Click on any of the following terms to access the relevant information:

Medical Policy Terms of Use Managed Care Guidelines Indemnity/PPO Guidelines Clinical Exception Process Medical Technology Assessment Guidelines

References

- 1. Rivera MP, Mehta AC, Wahidi MM. Establishing the diagnosis of lung cancer: Diagnosis and management of lung cancer, 3rd ed: American College of Chest Physicians evidence-based clinical practice guidelines. Chest. May 2013; 143(5 Suppl): e142S-e165S. PMID 23649436
- Gould MK, Donington J, Lynch WR, et al. Evaluation of individuals with pulmonary nodules: when is it lung cancer? Diagnosis and management of lung cancer, 3rd ed: American College of Chest Physicians evidence-based clinical practice guidelines. Chest. May 2013; 143(5 Suppl): e93S-e120S. PMID 23649456
- 3. Silvestri GA, Gonzalez AV, Jantz MA, et al. Methods for staging non-small cell lung cancer: Diagnosis and management of lung cancer, 3rd ed: American College of Chest Physicians evidence-based clinical practice guidelines. Chest. May 2013; 143(5 Suppl): e211S-e250S. PMID 23649440
- 4. Almeida FA, Uzbeck M, Ost D. Initial evaluation of the nonsmall cell lung cancer patient: diagnosis and staging. Curr Opin Pulm Med. Jul 2010; 16(4): 307-14. PMID 20453649
- 5. Wang Memoli JS, Nietert PJ, Silvestri GA. Meta-analysis of guided bronchoscopy for the evaluation of the pulmonary nodule. Chest. Aug 2012; 142(2): 385-393. PMID 21980059
- Colt HG, Davoudi M, Murgu S. Scientific evidence and principles for the use of endobronchial ultrasound and transbronchial needle aspiration. Expert Rev Med Devices. Jul 2011; 8(4): 493-513. PMID 21728734
- 7. Anantham D, Koh MS, Ernst A. Endobronchial ultrasound. Respir Med. Oct 2009; 103(10): 1406-14. PMID 19447014
- 8. Han Y, Kim HJ, Kong KA, et al. Diagnosis of small pulmonary lesions by transbronchial lung biopsy with radial endobronchial ultrasound and virtual bronchoscopic navigation versus CT-guided

transthoracic needle biopsy: A systematic review and meta-analysis. PLoS One. 2018; 13(1): e0191590. PMID 29357388

- Ali MS, Trick W, Mba BI, et al. Radial endobronchial ultrasound for the diagnosis of peripheral pulmonary lesions: A systematic review and meta-analysis. Respirology. Apr 2017; 22(3): 443-453. PMID 28177181
- Ye J, Zhang R, Ma S, et al. Endobronchial ultrasound plus fluoroscopy-guided biopsy compared to fluoroscopy-guided transbronchial biopsy for obtaining samples of peripheral pulmonary lesions: A systematic review and meta-analysis. Ann Thorac Med. 2017; 12(2): 114-120. PMID 28469722
- 11. Fielding DI, Chia C, Nguyen P, et al. Prospective randomised trial of endobronchial ultrasound-guide sheath versus computed tomography-guided percutaneous core biopsies for peripheral lung lesions. Intern Med J. Aug 2012; 42(8): 894-900. PMID 22212110
- 12. Paone G, Nicastri E, Lucantoni G, et al. Endobronchial ultrasound-driven biopsy in the diagnosis of peripheral lung lesions. Chest. Nov 2005; 128(5): 3551-7. PMID 16304312
- El-Osta H, Jani P, Mansour A, et al. Endobronchial Ultrasound for Nodal Staging of Patients with Non-Small-Cell Lung Cancer with Radiologically Normal Mediastinum. A Meta-Analysis. Ann Am Thorac Soc. Jul 2018; 15(7): 864-874. PMID 29684288
- Ge X, Guan W, Han F, et al. Comparison of Endobronchial Ultrasound-Guided Fine Needle Aspiration and Video-Assisted Mediastinoscopy for Mediastinal Staging of Lung Cancer. Lung. Oct 2015; 193(5): 757-66. PMID 26186887
- Wahidi MM, Herth F, Yasufuku K, et al. Technical Aspects of Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration: CHEST Guideline and Expert Panel Report. Chest. Mar 2016; 149(3): 816-35. PMID 26402427
- National Comprehensive Cancer Network (NCCN). NCCN Clinical Practice Guidelines in Oncology: Non-Small Cell Lung Cancer. Version 7.2024. https://www.nccn.org/professionals/physician_gls/pdf/nscl.pdf. Accessed July 10, 2024.