# Oncology Clinical Pathways Lung Cancer

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# Lung Cancer – Presumptive Conditions

VA automatically presumes that certain disabilities were caused by military service. This is because of the unique circumstances of a specific Veteran's military service. If a presumed condition is diagnosed in a Veteran within a certain group, they can be awarded disability compensation.

### Vietnam Veterans – Agent Orange Exposure or Specified Locations

Respiratory cancers

### Atomic Veterans Exposed to Ionizing Radiation

- Lung cancer
- Bronchioloalveolar carcinoma

### Gulf War and Post 9/11 Veterans

If the patient served any amount of time in Afghanistan, Djibouti, Syria, or Uzbekistan during the Persian Gulf War, from Sept. 19, 2001, to the present or the Southwest Asia theater of operations from Aug. 2, 1990, to the present, specific conditions include:

- Adenosquamous carcinoma of the lung
- Large cell carcinoma of the lung
- Salivary gland-type tumors of the lung
- Sarcomatoid carcinoma of the lung
- Typical and atypical carcinoid of the lung

If the patient served on or after Sept. 11, 2001, in Afghanistan, Djibouti, Egypt, Jordan, Lebanon, Syria, Uzbekistan, or Yemen or if the patient served in the \*Southwest Asia theater of operations, or Somalia, on or after Aug. 2, 1990, specific conditions include:

Respiratory cancer of any type

\* The Southwest Asia theater of operations refers to Iraq, Kuwait, Saudi Arabia, the neutral zone between Iraq and Saudi Arabia, Bahrain, Qatar, the United Arab Emirates, Oman, the Gulf of Aden, the Gulf of Oman, the Persian Gulf, the Arabian Sea, the Red Sea, and the airspace above these locations.

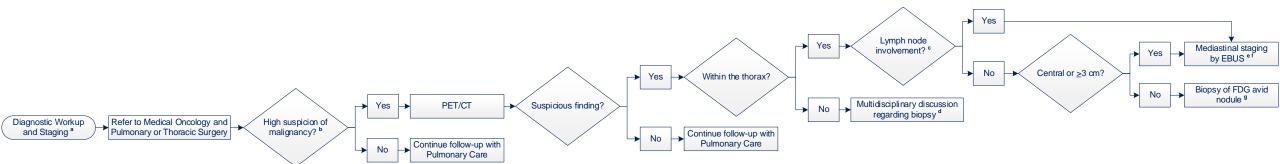
For more information, please visit U.S. Department of Veterans Affairs - Presumptive Disability Benefits (va.gov)







### Lung Cancer – Diagnostic Workup and Staging



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov

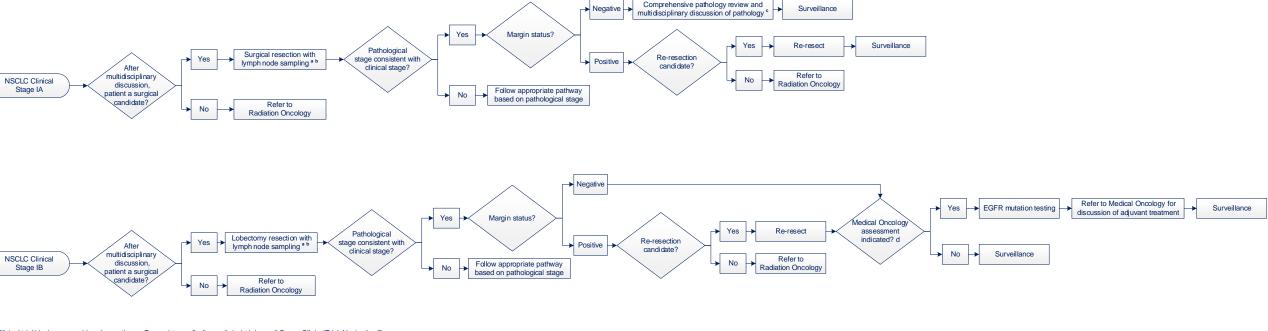
<sup>a</sup> Diagnostic Workup and Staging for pulmonary nodule evaluation, nodule with a high probability of cancer, nodule already diagnosed with lung cancer, or abnormal thoracic findings with concerns of cancer
<sup>b</sup> High Suspicion of Malignancy includes but is not limited to growth, radiographic properties, or large size
<sup>c</sup> Lymph Node Involvement includes any thoracic lymph node pathologic enlargement or FDG avidity
<sup>d</sup> Molecular Testing adequacy of tumor tissue should be considered in selection of the biopsy site and the amount of tissue; pursue the least invasive/risk biopsy when appropriate
<sup>e</sup> Mediastinal Staging includes EBUS examination of all paratracheal and hilar stations with sampling of any nodes > 0.5 cm; EUS or mediastinoscopy may be an alternative staging modality based upon the location of the concerning lymph node(s)
f Imaging brain MRIs are indicated for Stage II and above
<sup>g</sup> FDG Avid Nodules can be evaluated by percutaneous biopsy, surgical biopsy, or navigational bronchoscopy; multidisciplinary discussion can assist in the care plan
EBUS Endobronchial Ultrasound EUS Endoscopic Ultrasound FDG Fluorodeoxyglucose







### Lung Cancer – NSCLC Clinical Stage IA and IB



#### Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

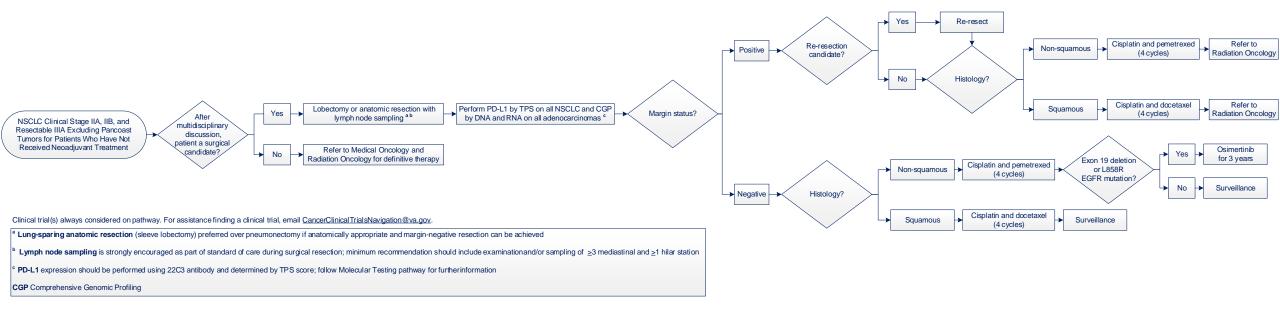
<sup>a</sup> Surgical Resection includes lobectomy as preferred resection but sublobar can be considered as clinically indicated; consider sublobar resection for <2cm, peripheral, confirmed negative 10, 4, 7 nodes
<sup>b</sup> Lymph node sampling is strongly encouraged as part of standard of care during surgical resection; minimum recommendation should include examination and/or sampling of $\geq$ 3 mediastinal and $\geq$ 1 hilar station
<sup>c</sup> Comprehensive Pathology Review for High Risk Features includes poorly differentiated tumors, vascular invasion, wedge resection, visceral pleural involvement, or lymph known status unknown; if $\geq 1$ of these features are present, consider assessment by Medical Oncology
<sup>d</sup> Indications for Medical Oncology Assessment include presence of high risk pathological features that might suggest the role of adjuvant chemotherapy or EGFR mutantation that might suggest the role of adjuvant osimertinib







### Lung Cancer – NSCLC Clinical Stage IIA, IIB, and Resectable IIIA Excluding Pancoast Tumors for Patients Who Have Not Received Neoadjuvant Treatment

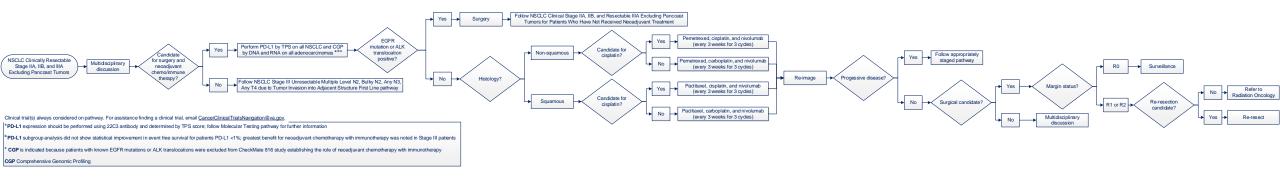








## Lung Cancer – NSCLC Clinically Resectable Stage IIA, IIB, and IIIA Excluding Pancoast Tumors

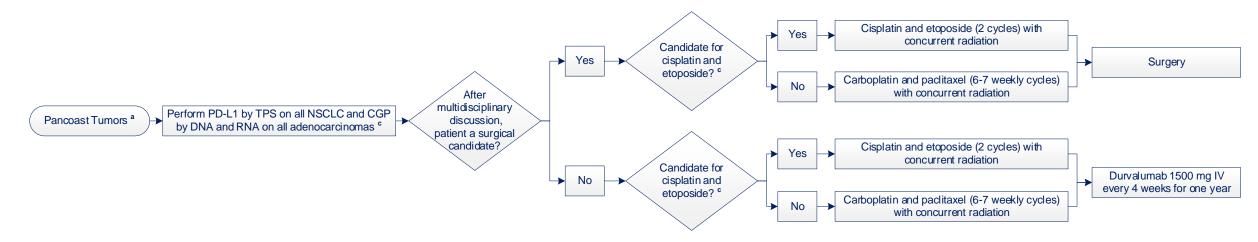








### Lung Cancer – Pancoast Tumors



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

<sup>a</sup> Pancoast Tumors clinical diagnosis that includes any of these stages: T3N0, T4N0, and T4N1 are generally considered resectable and T4N2 is considered unresectable

<sup>b</sup> PD-L1 expression should be performed using 22C3 antibody and determined by TPS score; follow Molecular Testing pathway for further information

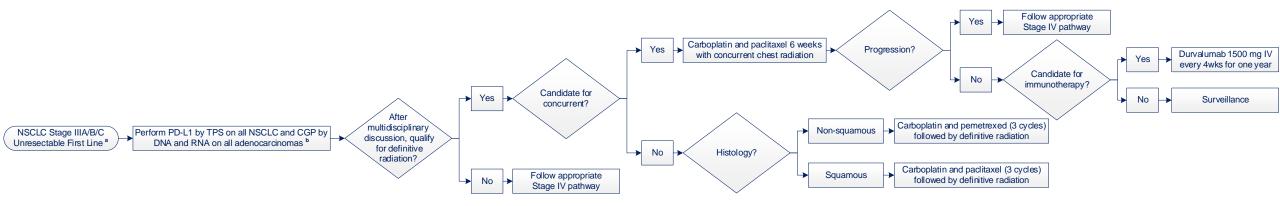
<sup>c</sup> Candidate for cisplatin and etoposide contraindications include abnormal renal function, ECOG 2, or abnormal heart function







### Lung Cancer – NSCLC Stage IIIA/B/C Unresectable First Line



#### Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

\* NSCLC Stage IIIA/B/C Unresectable includes multiple level N2, bulky N2, any N3, any T4 due to tumor invasion into adjacent structure or poor surgical candidates due to prohibitive risk

<sup>b</sup> PD-L1 expression should be performed using 22C3 antibody and determined by TPS score; follow Molecular Testing pathway for further information; CGP is indicated because the role of consolidation durvalumab is unclear in EGFR mutant or ALK translocation positive patients

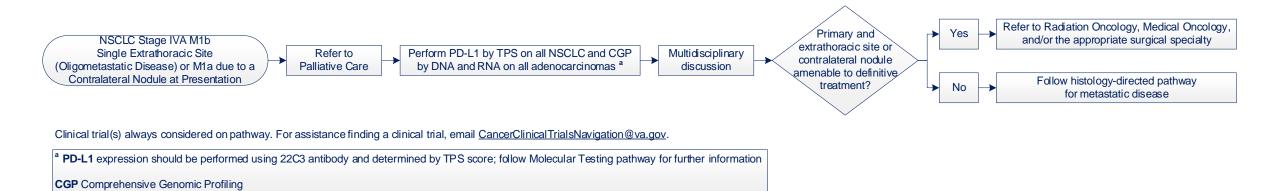
CGP Comprehensive Genomic Profiling







## Lung Cancer – NSCLC Stage IVA M1b Single Extrathoracic Site or M1a Due To A Contralateral Nodule at Presentation

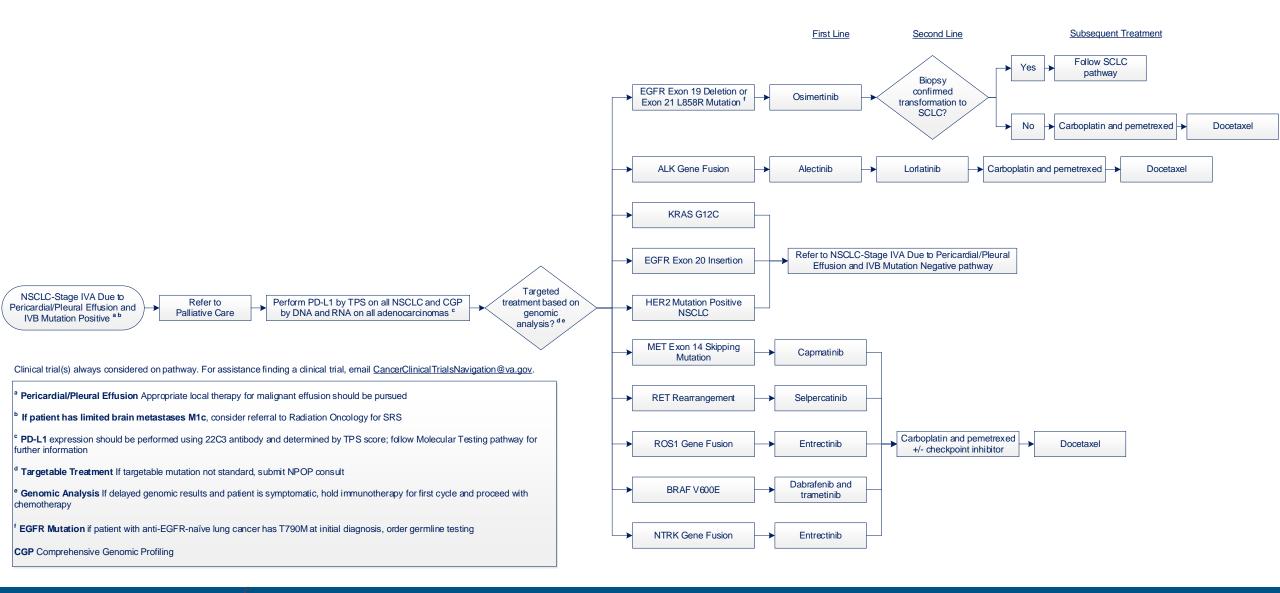


Choose VA





### Lung Cancer – NSCLC Stage IVA Due to Pericardial/Pleural Effusion and IVB Mutation Positive

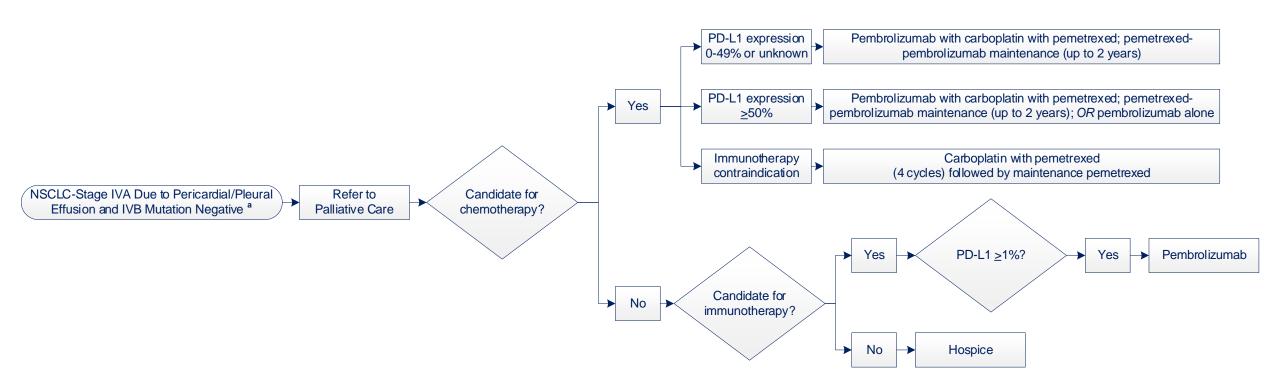








### Lung Cancer – NSCLC Stage IVA Due to Pericardial/Pleural Effusion and IVB Mutation Negative



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

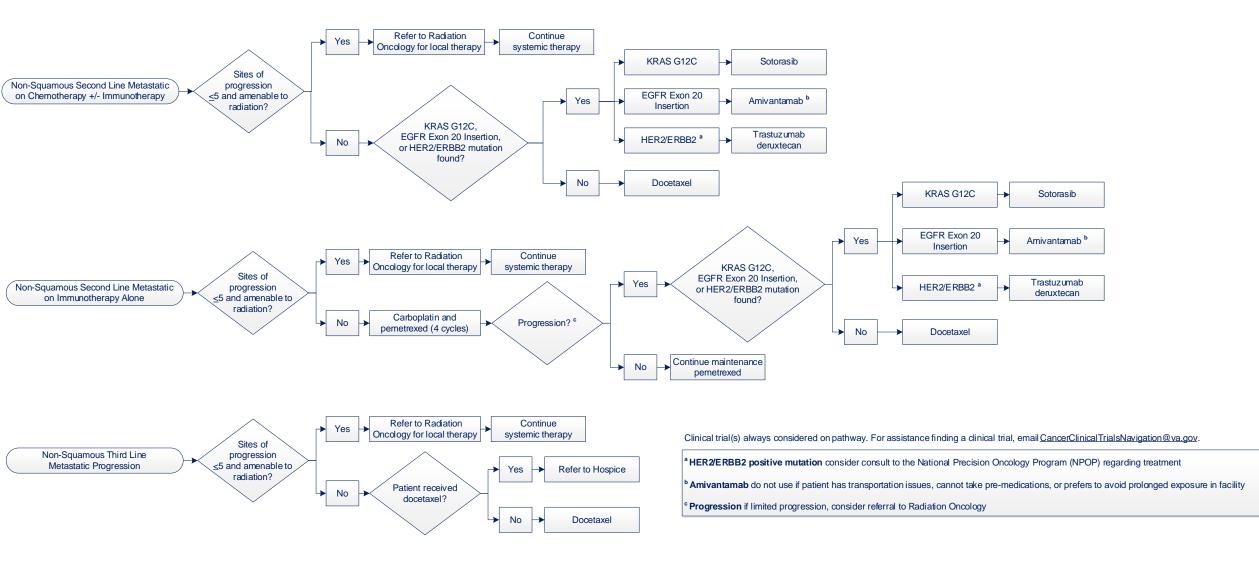
<sup>a</sup> **Pericardial/Pleural Effusion** appropriate local therapy for malignant effusion should be pursued; pathway also applicable for first line treatment of KRAS G12C, EGFR Exon 20 insertion, and HER2 mutation positive NSCLC







## Lung Cancer – Non-Squamous Second and Third Lines Metastatic

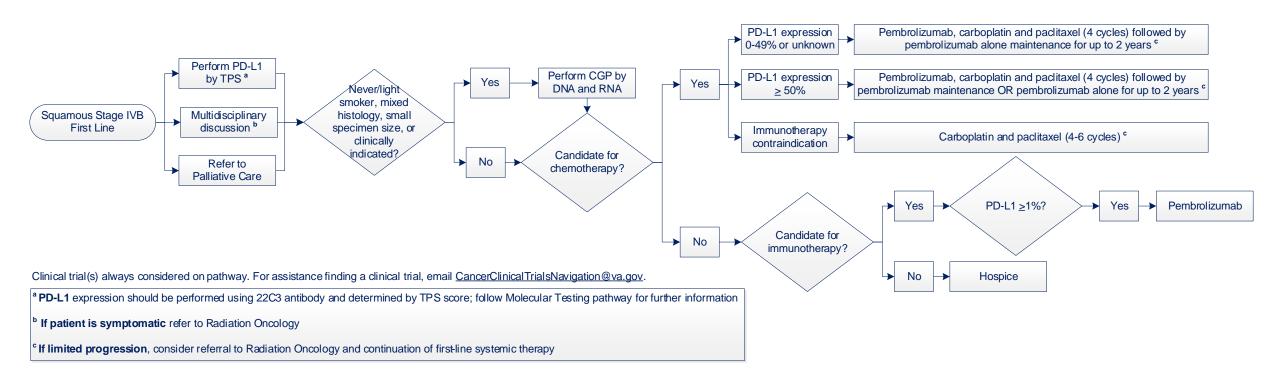








### Lung Cancer – Squamous Stage IVB First Line

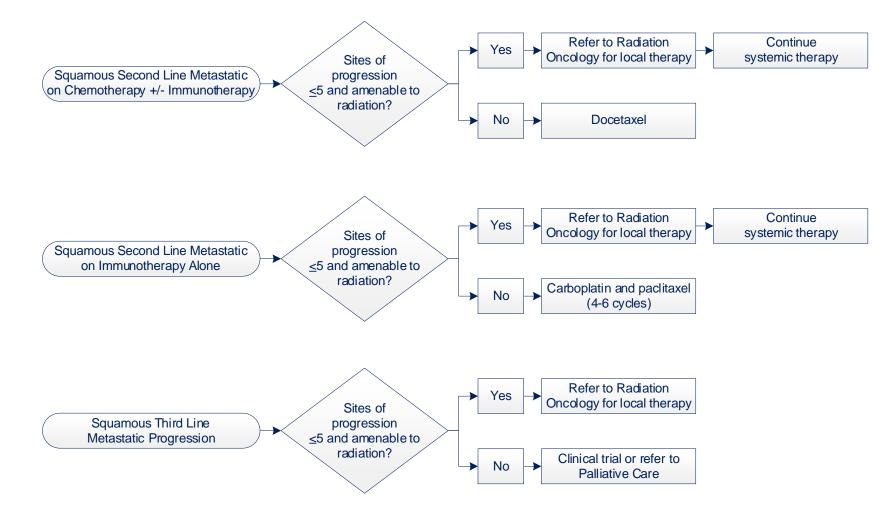








## Lung Cancer – Squamous Second and Third Lines Metastatic



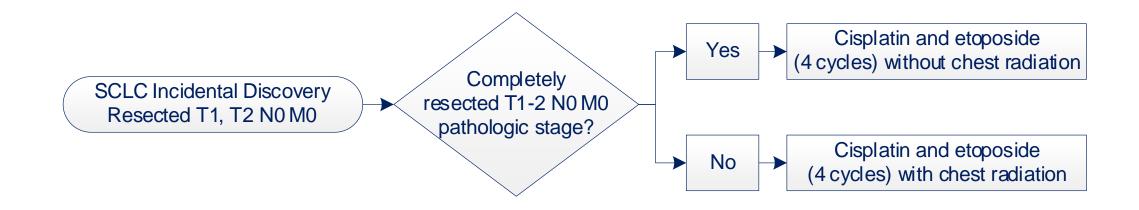
Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.







# Lung Cancer – SCLC Incidental Discovery Resected T1, T2 N0 M0



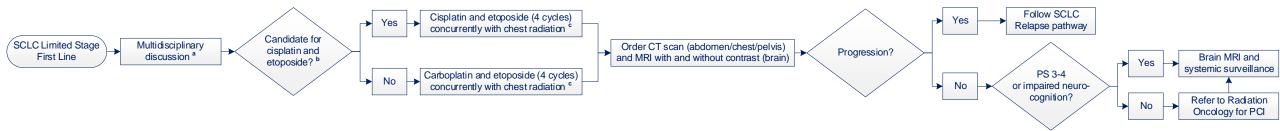
Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email <u>CancerClinicalTrialsNavigation@va.gov</u>.







### Lung Cancer – SCLC Limited Stage First Line



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

<sup>a</sup> In the rare case of T1-2 N0 M0, surgery can be considered followed by adjuvant chemotherapy

<sup>o</sup> Candidate for cisplatin and etoposide contraindications include abnormal renal function, ECOG 2, or abnormal heart function

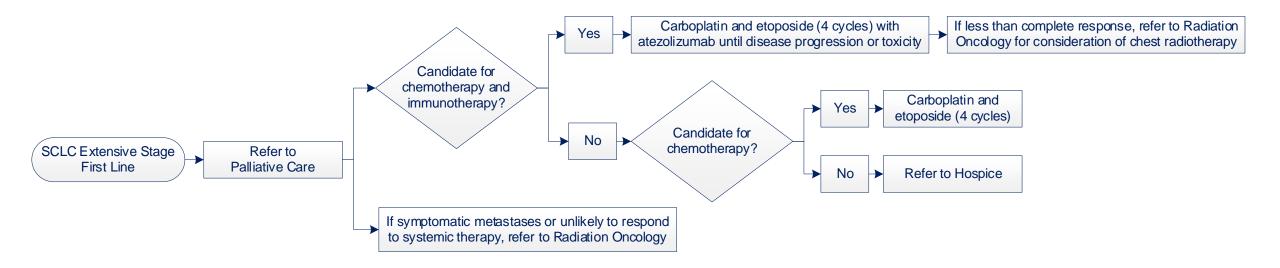
<sup>c</sup> Initiate radiation as early as possible, within the first or second cycle of chemotherapy







### Lung Cancer – SCLC Extensive Stage First Line



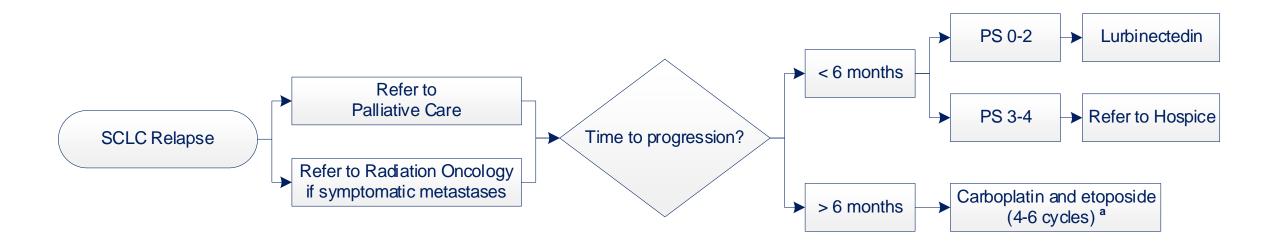
Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email <u>CancerClinicalTrialsNavigation@va.gov</u>.







# Lung Cancer – SCLC Relapse



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email <u>CancerClinicalTrialsNavigation@va.gov</u>.

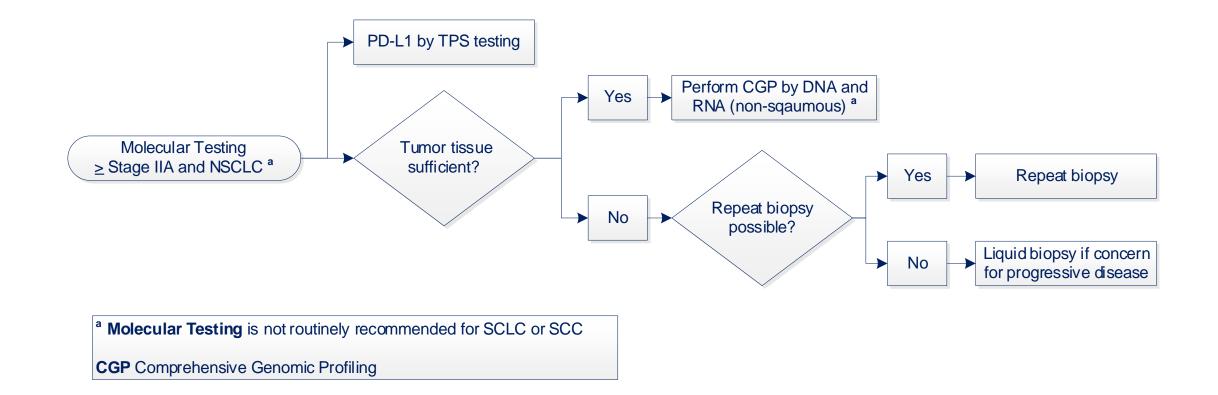
<sup>a</sup> If patient is progressing and did not receive immunotherapy upfront, patient can receive carboplatin, etoposide, and atezolizumab







### Lung Cancer – Molecular Testing









### **Molecular Testing Table**

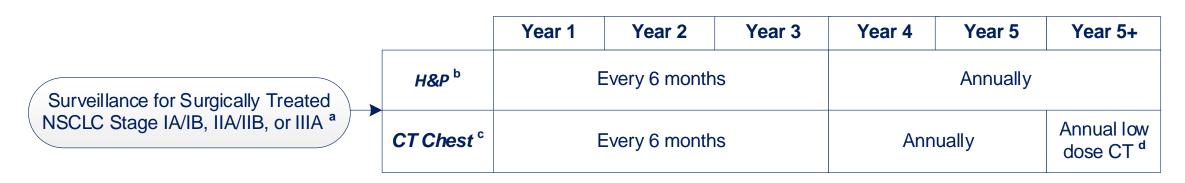
Eligibility	Test Category	Test Type	<b>Recommended Vendors</b>	NPOP Coverage	Specimen Type			
	IHC	PD-L1 expression by IHC using 22C3 antibody	Tempus	Yes (when ordered with CGP)				
Stage IIA and Higher NSCLC			Foundation Medicine	Yes (when ordered with CGP)	Tumor Tissue			
			Local Vendor	No				
Oto so IIA and Lligher NCCL C Neg Squameur		1 NIA and RNIA-based comprehensive denomic profiling ((1.2P)	Tempus	Yes	Tumor Tissue, Blood			
5 5 1			Foundation Medicine	Yes				
Stage IV Squamous Never/Light Smoker, Mixed	October NOOX	DNM and DNM based comprehensive conomic profiling (CCD)	Tempus	Yes	Tumor Tissue, Blood			
Histology, or Small Specimen Size	Somatic NGS	* DNA and RNA-based comprehensive genomic profiling (CGP)	Foundation Medicine	Yes				
* Somatic NGS testing should adequately cover point mutations, small insertion/deletion mutations, amplifications, and fusion oncogenes; at minimum testing should include coverage of EGFR, ALK, ROS1, RET, MET,								
BRAF, KRAS, NTRK1, NTRK2, NTRK3, and HER2								
** Tissue testing strongly preferred because it is the only method for RNA based testing. Liquid testing is suboptimal but acceptable only if adequate tissue cannot be obtained.								







### Lung Cancer – Surveillance for Surgically Treated NSCLC Stage IA/IB, IIA/IIB, or IIIA



<sup>a</sup> Surveillance once treatment is completed; routine brain imaging is not recommended

<sup>b</sup> H&P to include smoking cessation

<sup>c</sup> CT of Chest initial baseline scan within 3 months of definitive treatment; more frequent scanning may be required

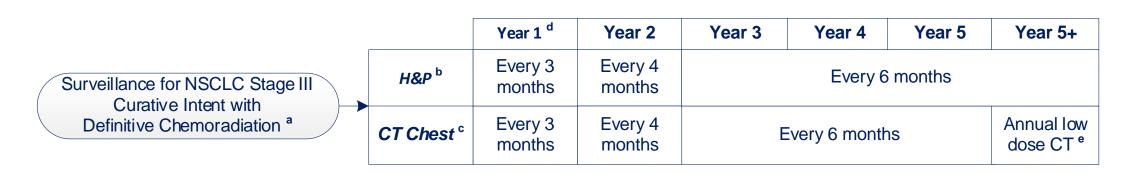
<sup>d</sup> Annual Low Dose CT more frequent scanning intervals may be appropriate in some patients, to include SBRT patients; for years 3-5+, low-dose CT scans may be used to screen for a second primary malignancy







### <u>Lung Cancer – Surveillance for NSCLC Stage III Curative Intent</u> with Definitive Chemoradiation



<sup>a</sup> Surveillance once treatment is completed; routine brain imaging is not recommended

<sup>b</sup> **H&P** to include smoking cessation

<sup>c</sup> CT of Chest initial baseline scan within 3 months of definitive treatment; more frequent scanning may be required

<sup>d</sup> Year 1 not intended to provide guidance for imaging consolidation immunotherapy

<sup>e</sup> Annual Low Dose CT more frequent scanning intervals may be appropriate in some patients, to include SBRT patients; for years 3-5+, low-dose CT scans may be used to screen for a second primary malignancy





