Oncology Clinical Pathways Lung Cancer

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Diagnostic Workup and Staging.	
NSCLC Clinical Stage IA and IB	
NSCLC Clinical Stage IIA, IIB, and Resectable IIIA Excluding Pancoast Tumors for Patien	nts Who Have Not Received Neoadjuvant Treatment6
NSCLC Clinically Resectable Stage IIA, IIA, and IIIA Excluding Pancoast Tumors	
Pancoast Tumors.	
NSCLC Stage IIIA/B/C Unresectable First Line.	
NSCLC Stage IVA M1b Single Extrathoracic Site (Oligometastatic Disease) or M1a due to	o a Contralateral Nodule at Presentation10
NSCLC Stage IVA Due to Pericardial/Pleural Effusion and IVB Mutation Positive	11
NSCLC Stage IVA Due to Pericardial/Pleural Effusion and IVB Mutation Negative	12
Non-Squamous Second and Third Lines Metastatic.	1;
Squamous Stage IVB First Line	14
Squamous Second and Third Lines Metastatic	15
SCLC Incidental Discovery	16
SCLC Limited Stage First Line	17
SCLC Extensive Stage First Line	18
SCLC Relapse	19
Molecular Testing.	
Molecular Testing Table	21
Surveillance for Surgically Treated NSCLC Stage IA/IB, IIA/IIB, or IIIA	22
Surveillance for NSCLC Stage III Curative Intent with Definitive Chemoradiation	23

Presumptive Conditions 3







<u>Lung Cancer – Presumptive Conditions</u>

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.

<u>Vietnam Veterans – Agent Orange Exposure or Specified Locations</u>

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.

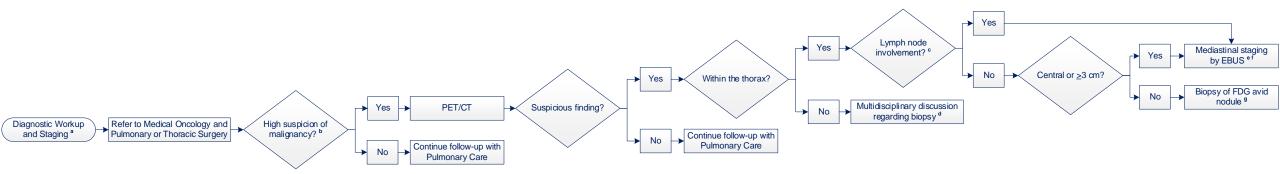
For more information, please visit U.S. Department of Veterans Affairs - Presumptive Disability Benefits (va.gov)







Lung Cancer – Diagnostic Workup and Staging



Clinical trial(s) always considered on pathway.

^a 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

^b High Suspicion of Malignancy includes but is not limited to growth, radiographic properties, or large size

Exymph Node Involvement includes any thoracic lymph node pathologic enlargement or FDG avidity

d 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

^e 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)

Imaging brain MRIs are indicated for Stage II and above

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

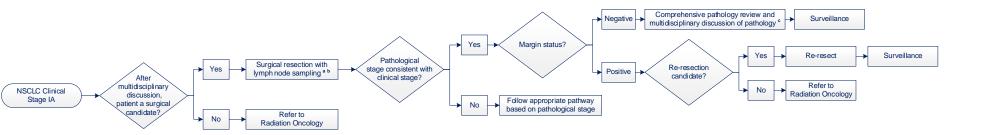
FDG Fluorodeoxyglucose

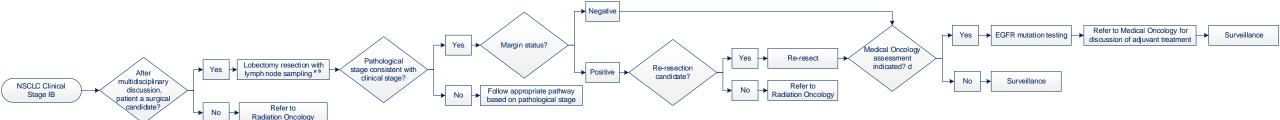






<u>Lung Cancer – NSCLC Clinical Stage IA and IB</u>





Clinical trial(s) always considered on pathway.

^a 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

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

Comprehensive Pathology Review for High Risk Features includes poorly differentiated tumors, vascular invasion, wedge resection, visceral pleural involvement, or lymph known status unknown; if ≥1 of these features are present, consider assessment by Medical Oncology

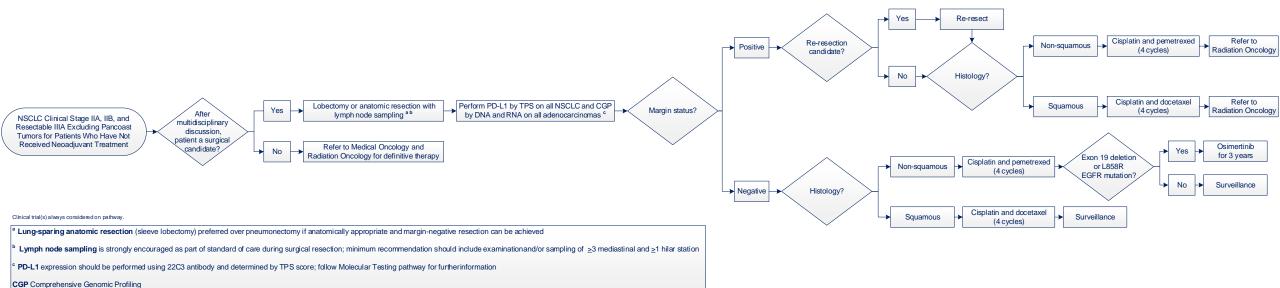
d Indications for Medical Oncology Assessment include presence of high risk pathological features that might suggest the role of adjuvant chemotherapy or EGFR mutantationthat might suggest the role of adjuvant osimertinib







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

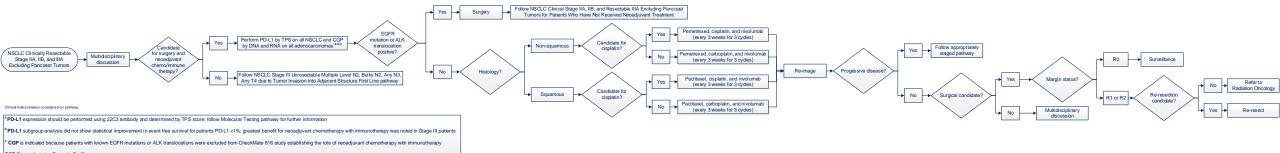








<u>Lung Cancer – NSCLC Clinically Resectable Stage IIA, IIB, and IIIA</u> <u>Excluding Pancoast Tumors</u>

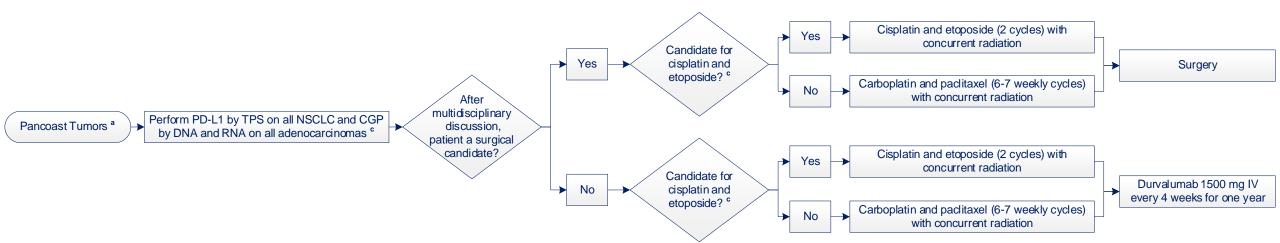








<u>Lung Cancer – Pancoast Tumors</u>



Clinical trial(s) always considered on pathway.





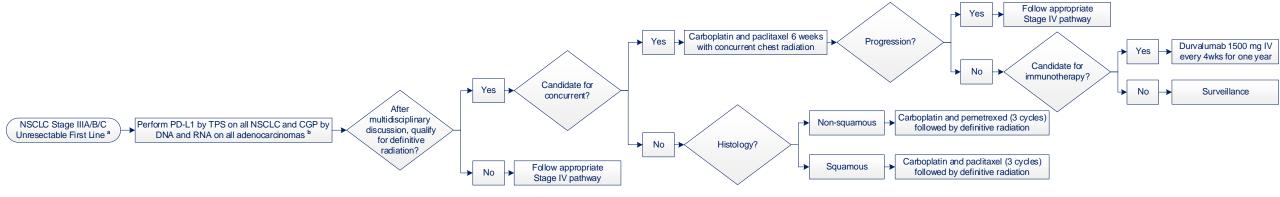


^a Pancoast Tumors clinical diagnosis that includes any of these stages: T3N0, T4N0, and T4N1 are generally considered resectable and T4N2 is considered unresectable

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

^c Candidate for cisplatin and etoposide contraindications include abnormal renal function, ECOG 2, or abnormal heart function

<u>Lung Cancer – NSCLC Stage IIIA/B/C Unresectable First Line</u>



Clinical trial(s) always considered on pathway

a 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

PPL1 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

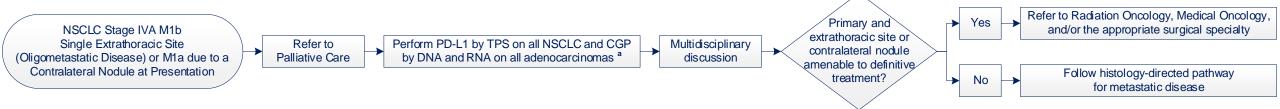
CGP Comprehensive Genomic Profiling







<u>Lung Cancer – NSCLC Stage IVA M1b Single Extrathoracic Site or M1a Due To A Contralateral Nodule at Presentation</u>



Clinical trial(s) always considered on pathway.

^a PD-L1 expression should be performed using 22C3 antibody and determined by TPS score; follow Molecular Testing pathway for further information

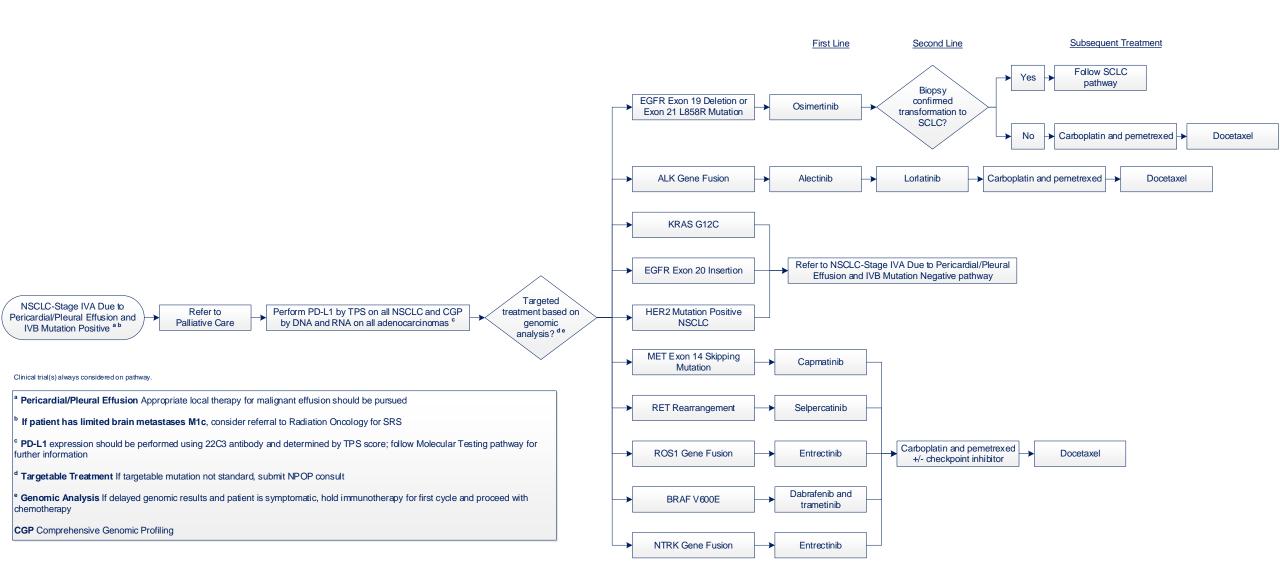
CGP Comprehensive Genomic Profiling







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

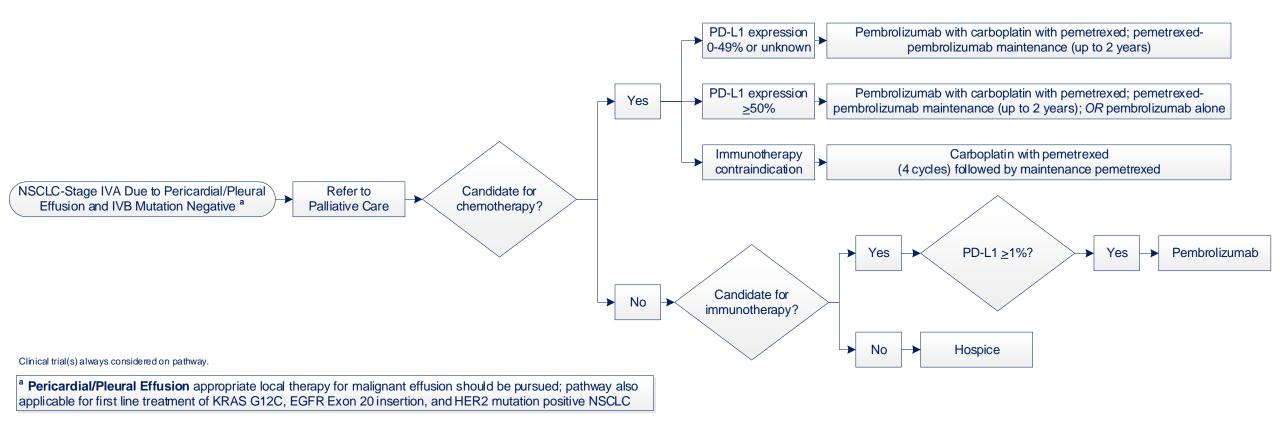








<u>Lung Cancer – NSCLC Stage IVA Due to</u> <u>Pericardial/Pleural Effusion and IVB Mutation Negative</u>

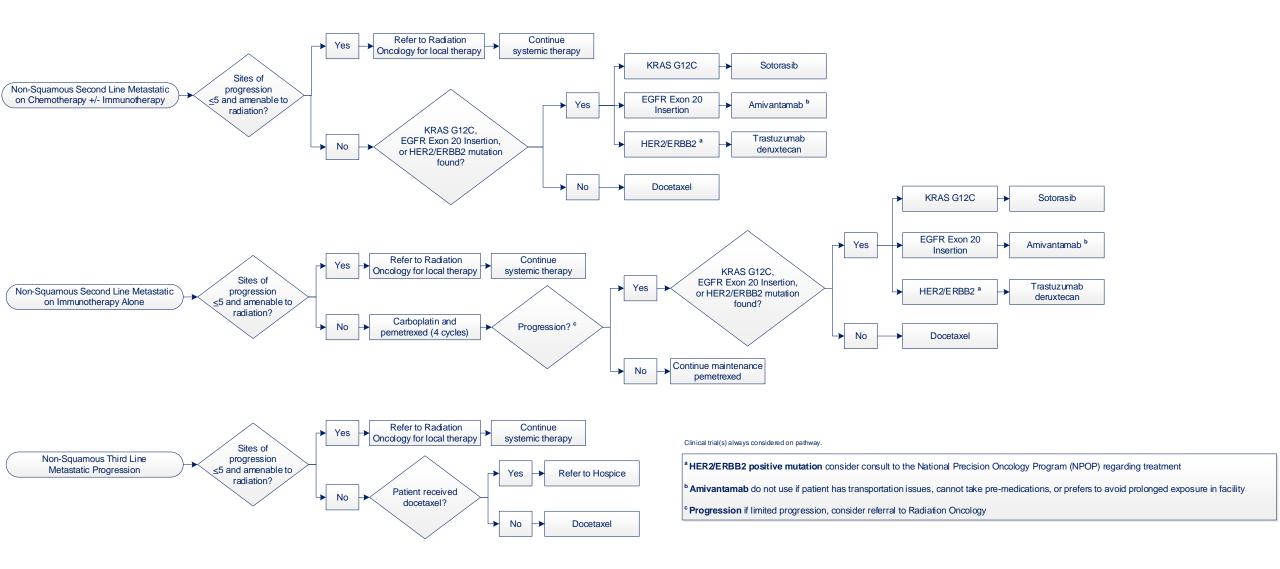








<u>Lung Cancer – Non-Squamous Second and Third Lines Metastatic</u>

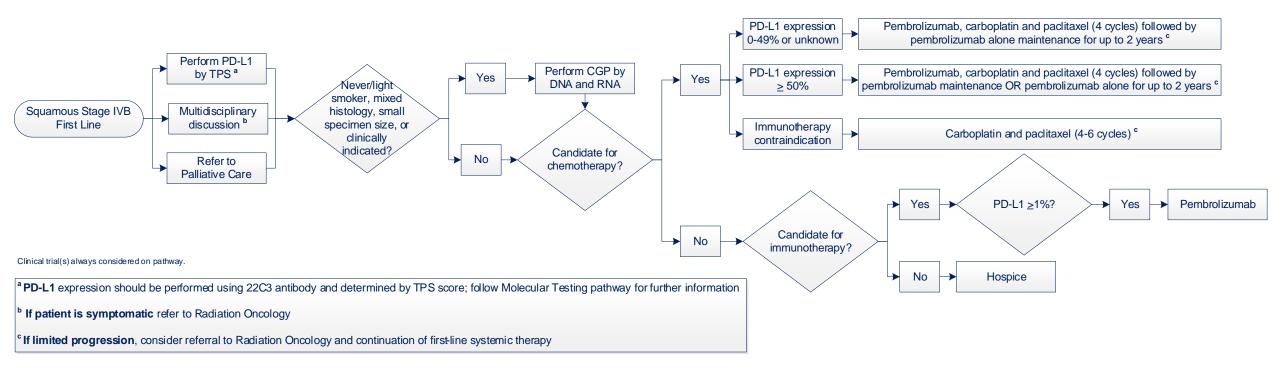








<u>Lung Cancer – Squamous Stage IVB First Line</u>

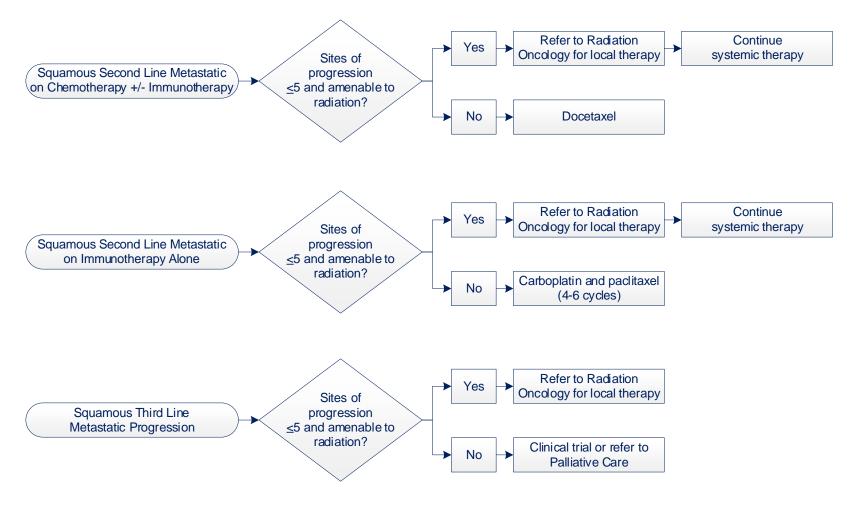








<u>Lung Cancer – Squamous Second and Third Lines Metastatic</u>



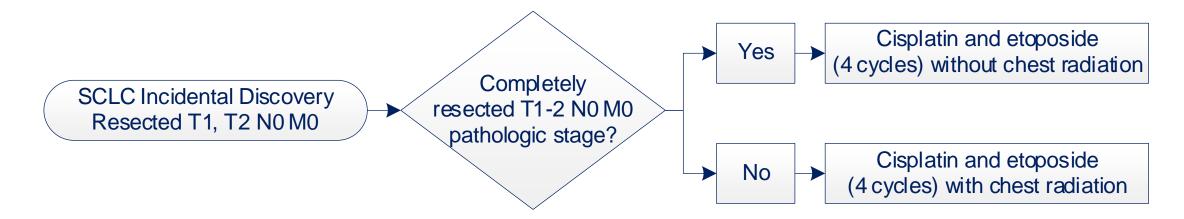
Clinical trial(s) always considered on pathway.







<u>Lung Cancer – SCLC Incidental Discovery Resected T1, T2 N0 M0</u>



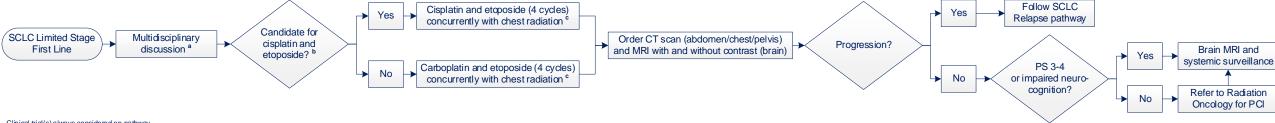
Clinical trial(s) always considered on pathway.







<u>Lung Cancer – SCLC Limited Stage First Line</u>



Clinical trial(s) always considered on pathway.

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

^b Candidate for cisplatin and etoposide contraindications include abnormal renal function, ECOG 2, or abnormal heart function

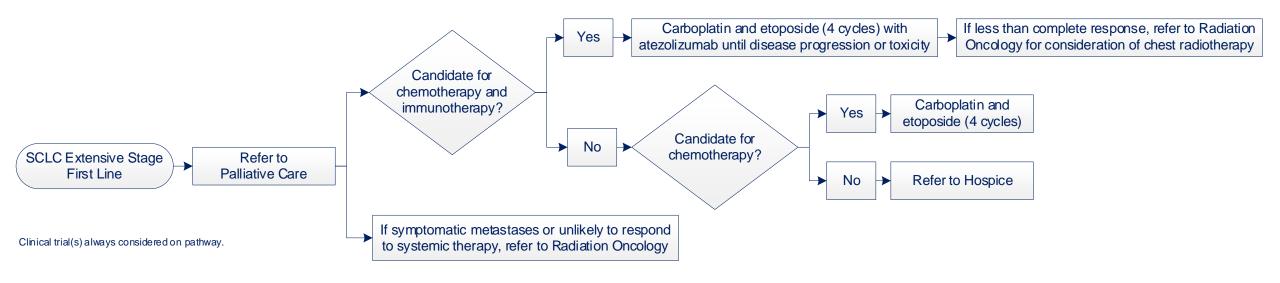
c Initiate radiation as early as possible, within the first or second cycle of chemotherapy







<u>Lung Cancer – SCLC Extensive Stage First Line</u>

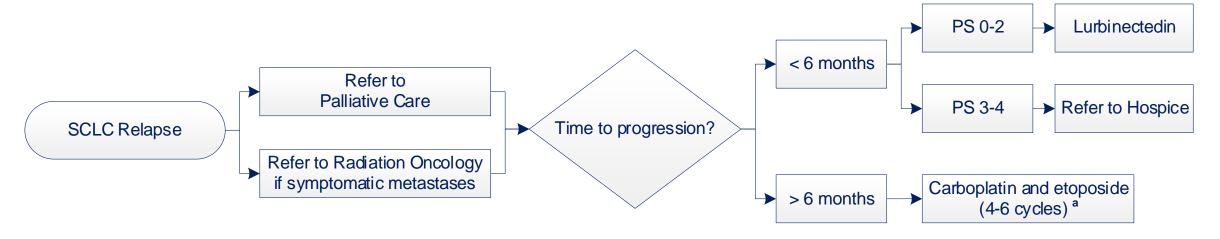








<u>Lung Cancer – SCLC Relapse</u>



Clinical trial(s) always considered on pathway.

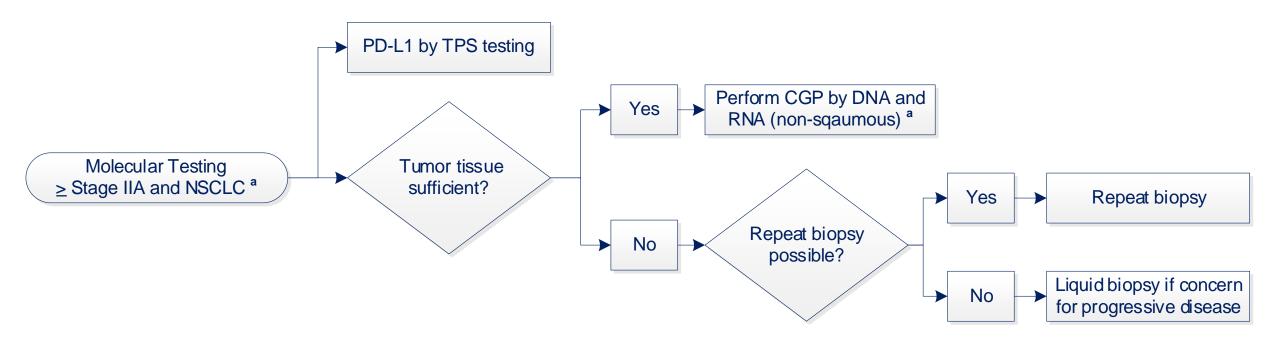
^a If patient is progressing and did not receive immunotherapy upfront, patient can receive carboplatin, etoposide, and atezolizumab







<u>Lung Cancer – Molecular Testing</u>



^a **Molecular Testing** is not routinely recommended for SCLC or SCC

CGP Comprehensive Genomic Profiling







Molecular Testing Table

Eligibility	Test Category	Test Type	Recommended Vendors	NPOP Coverage	Specimen Type		
Stage IIA and Higher NSCLC	IHC	, , ,	Tempus Foundation Medicine Local Vendor	Yes Yes No	Tumor Tissue		
		CGP using both DNA and RNA based methodology	Tempus Foundation Medicine	Yes Yes	Tumor Tissue, Blood		
Stage IV Squamous Never/Light Smoker, Mixed Histology, or Small Specimen Size	Somatic NGS*	CGP using both DNA and RNA based methodology	Tempus Foundation Medicine	Yes Yes	Tumor Tissue, Blood		
* Somatic NGS testing should include testing for EGFR, ALK, ROS1, RET, MET, BRAF, KRAS, NTRK1, NTRK2, NTRK3, and HER2							







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

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 5+
Surveillance for Surgically Treated NSCLC Stage IA/IB, IIA/IIB, or IIIA a	H&P ^b	Every 6 months			Annually		
	CT Chest c	Every 6 months			Ann	ually	Annual low dose CT d

^a Surveillance once treatment is completed; routine brain imaging is not recommended





^b **H&P** to include smoking cessation

^c CT of Chest initial baseline scan within 3 months of definitive treatment; more frequent scanning may be required

^d **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> <u>with Definitive Chemoradiation</u>

		Year 1 ^d	Year 2	Year 3	Year 4	Year 5	Year 5+
Surveillance for NSCLC Stage III Curative Intent with Definitive Chemoradiation ^a	H&P ^b	Every 3 months	Every 4 months	Every 6 months			
	CT Chest c	Every 3 months	Every 4 months	Every 6 months		Annual low dose CT ^e	

^a Surveillance once treatment is completed; routine brain imaging is not recommended







^b **H&P** to include smoking cessation

^c CT of Chest initial baseline scan within 3 months of definitive treatment; more frequent scanning may be required

^d **Year 1** not intended to provide guidance for imaging consolidation immunotherapy

^e **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

Questions?

Contact VHAOncologyPathways@va.gov





