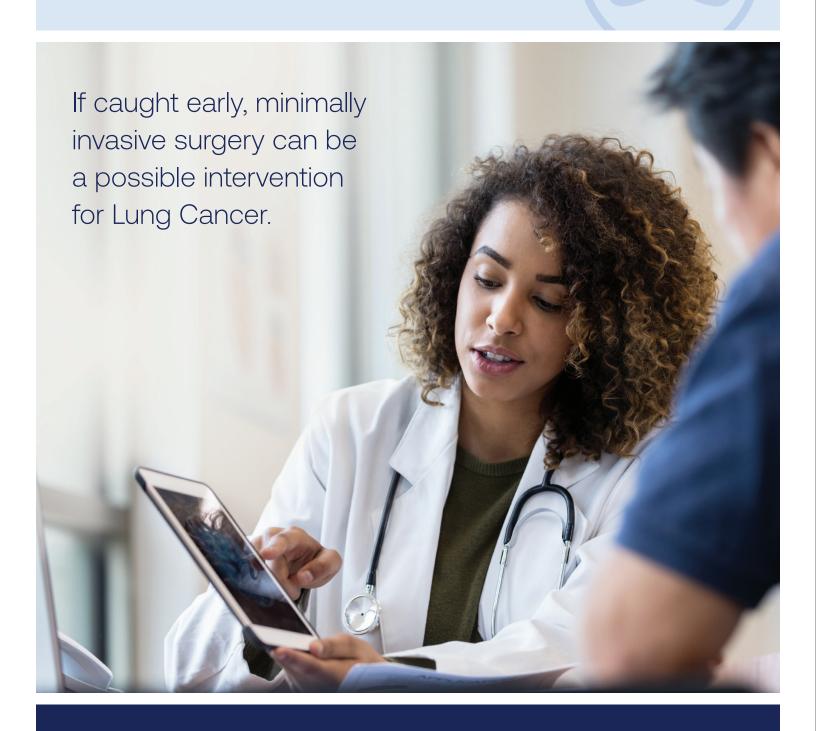


What Are My Lung Cancer Surgery Options?



Introduction to Lung Cancer Surgery

According to the American Lung Association's State of Lung Cancer Report, states with higher lung cancer survival rates usually have higher lung cancer surgery rates. Surgery may be an option for patients with early-stage non-small cell lung cancer (NSCLC). Lung cancer surgery involves removing the tumor along with surrounding lung tissue and/or lymph nodes in the area where the tumor was located. How much lung tissue is removed is determined by the surgeon based on many health factors. Early detection and treatment of lung cancer leads to higher survival rates.

If lung cancer is caught before it spreads, the likelihood of surviving five years or more improves to 60%. Nationally, 20.7% of cases underwent surgery, which was a 3% improvement over the last five years.

Surgery may not be right for every patient with lung cancer. Underlying conditions such as COPD, pulmonary fibrosis, coronary artery disease, and congestive heart failure may play a role in lung cancer surgery as a treatment option and can be a factor in the type of surgery or treatment a surgeon will recommend.

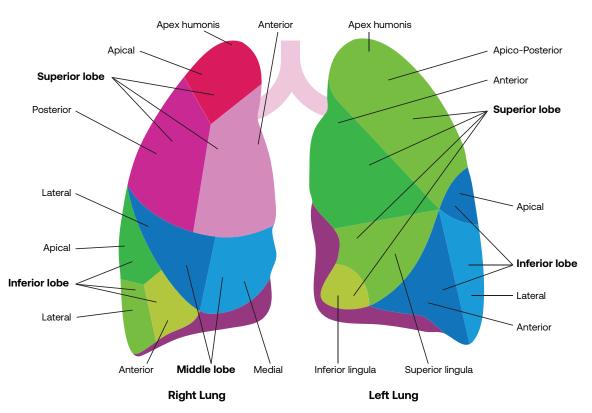
Surgical Approaches

There are two common surgical approaches to entering the chest cavity.

Thoracotomy - An incision is made on the side of the chest and follows the curve of the ribs. It typically involves dividing muscles of the chest wall using an instrument to gently spread two ribs to provide the surgeon access to the lung. The muscles are repaired when the incision is closed.

Minimally Invasive Surgery - This approach typically involves one to four small incisions to access the chest cavity. This is known as thoracoscopy or video-assisted thoracoscopic surgery (VATS) and can also be done with the assistance of a surgical robot, often called robotic-assisted surgery (RAS). Minimally invasive surgery is more common.

Bronchopulmonary Segments



Types of Procedures

The following procedures describe how much of the patient's lung is removed.

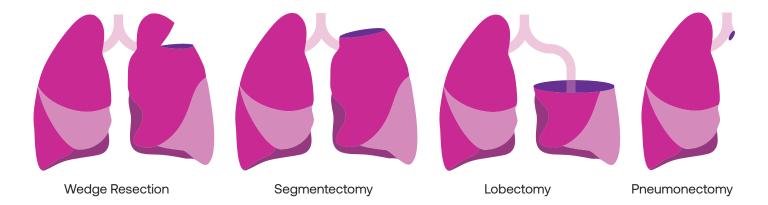
Wedge resection is the removal of a small, wedge-shaped piece of lung tissue surrounding a cancerous tumor.

Segmentectomy - Each lung lobe is made up of two to five lung segments. Surgeons can remove one to four segments of certain lobes and save uninvolved tissue.

Lobectomy is the removal (resection) of the lobe of the lung affected by lung cancer. This is the most commonly performed lung cancer surgery.

Pneumonectomy is the removal of the entire lung affected by cancer. This procedure is considered if the cancer cannot be fully removed with the lobectomy or if the lesion is centrally located.

Sleeve lobectomy starts with the removal of the cancerous lobe and a portion of the main bronchus to that lung. The remaining end of the main bronchus is then rejoined with the bronchus to any unaffected lobe(s). A sleeve lobectomy avoids the need for a pneumonectomy.



Potential Risks and Complications

Each lung cancer treatment option, including surgery, has possible side effects and may carry additional risks depending on the procedure and the person's condition. Side effects may include:

Drowsiness from anesthesia | Blood clots and bleeding | Heart arrhythmia | Prolonged air leak | Pneumonia Difficulty breathing

Approximately **97 percent of patients survive** lung cancer surgery accessing modern, minimally invasive techniques. About 85 percent of patients experience no major complications, and 75 percent of patients get discharged 5 days or sooner from hospital care.

The Lung Association recommends discussing lung cancer surgery and other treatment options with your doctor on your next visit. The back of this brochure has a lung cancer surgery checklist for you to follow if you decide to pursue lung cancer surgery as a treatment option.

Lung Cancer Surgery Checklist

Pre-treatment checklist:			
	Ask your doctor if lung cancer surgery is right for you		
	If you use tobacco products, seek out support and resou	rces to quit	
	Understand your insurance coverage		
Pre	Preparing for surgery:		
	Arrange for transportation to and from the hospital		
	Set up help at home with chores and errands		
	Make accommodations for time off work		
	Find out what you can eat and drink before surgery		
	Leave jewelry, valuables and contact lenses at home the day of surgery		
	Wear loose, comfortable clothing		
	Follow all instructions given to you by your doctor		
Qu	estions for your care team:		
	What can I do to get ready for surgery?		
	How long will I be in the hospital?		
	Should I receive physical therapy or pulmonary rehabilitation	ion after surgery?	
	Who do I contact if I have any questions?		
Ро	st-surgery checklist:		
	Walk as soon as you can as advised by your care team		
	Get recovery instructions from your doctor		
	Ask your doctor about physical activity and if you need a referral to physical therapy or pulmonary rehab		
	Communicate with your doctor about your level of pain or discomfort and if it is keeping you from taking		
	a deep breath, coughing or moving.		
	Call your doctor immediately if you have signs of complic	eations	
Vist the Lung Association Website for More Information and Resources			
Up	-to-Date Lung Cancer Information: Lung.org/lung-cancer	Covid-19 Resources: Lung.org/covid-19	
HelpLine: Lung.org/helpline or 1-800-LUNGUSA		Patient and Caregiver Network: Lung.org/pcn	
Mentorship: Lung.org/cancer-mentor		Quit Smoking: Lung.org/quit-smoking	
		Assistance with Treatment: Lung.org/treatment-assistance	
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