







# RECURRENT CHARACTERISTIC AFTER THORACOSCOPIC LOBECTOMY AND LYMPH NODE DISSECTION FOR NON – SMALL CELL LUNG CANCER AT 108 MILITARY CENTRAL HOSPITAL

LE HAI SON

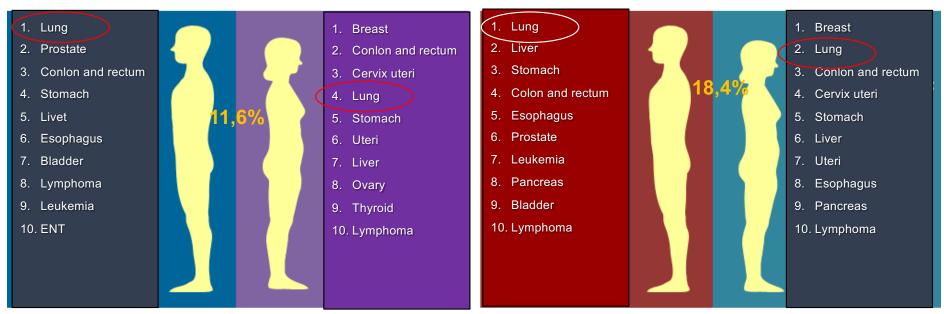
# Content

- Overview
- Material and Method
- Results and discussions
- Conclusions

# **Overview**

#### **Estimated incidence**

#### **Estimated mortality**



Lung cancer is the leading cause of death among Vietnamese males, and the second-most common cause for cancer-related fatalities among females



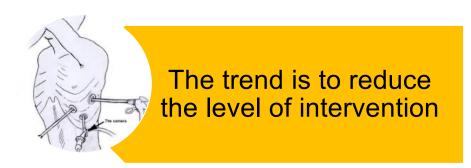




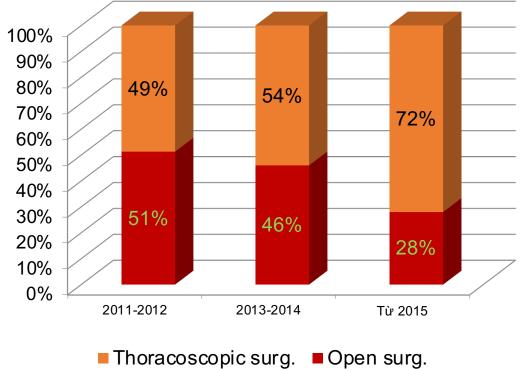


Bray F., Ferlay J., Soerjomataram I., et al. (2018). Global cancer statistics 2018: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. CA: a cancer journal for clinicians; 68(6):394-424.

# **Overview**









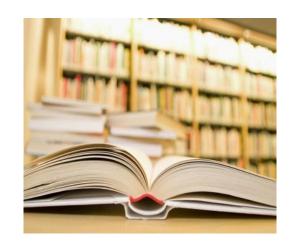






Kent, Shah (2014), Adaichi (2017), Han (2018)

## **Overview**



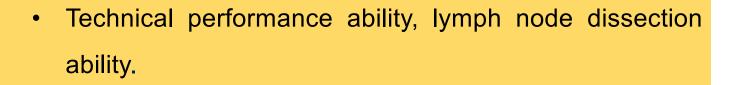
# Situation of research











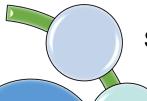
Assesment of early results.



Describe the characteristics of recurrence in patients with NSCLC after thoracoscopic lobectomy and lymph node dissection



98 NSCLC patients (stage I, II) were indicated thoracoscopic lobectomy and lymph node dissection at 108 Military central hospital from 2017, May to 2021, March.



Stage I, II: histopathological result was NSCLC



Peripheral tumor with diameter ≤ 7cm

No pre – chemotherapy/radiation therapy

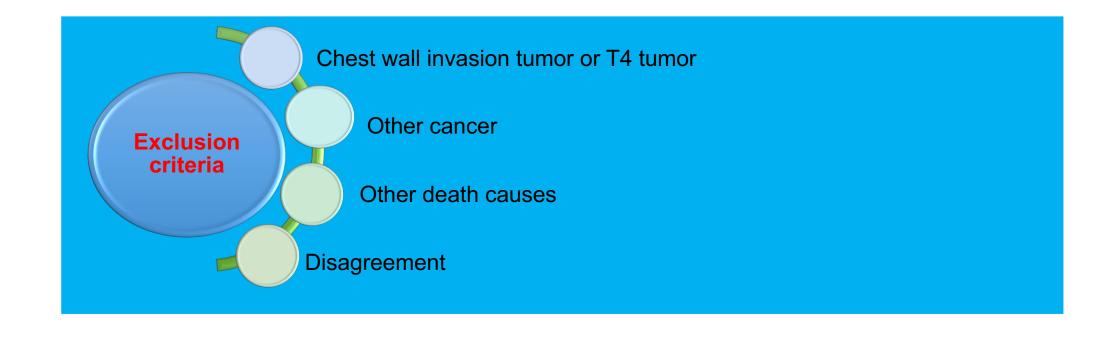




















#### Surgical protocol:



**Bronchial endoscopy** 

Patient Controlled Epidural Analgesia

**Patient position** 









Pt.Nguyen Thi T., ID: 21072185

#### **Surgical protocol**

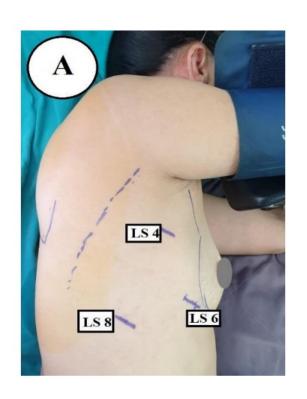
Step 1: make incision

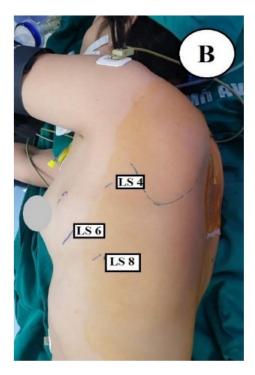
Step 2: lesion assessment

Step 3: lobectomy and lymph

node dissection

Step 4: closure













A: right side (Pt. Nguyen Thi T., ID 21072185) B: left side (Pt. Duong Thi H., ID 19840051)

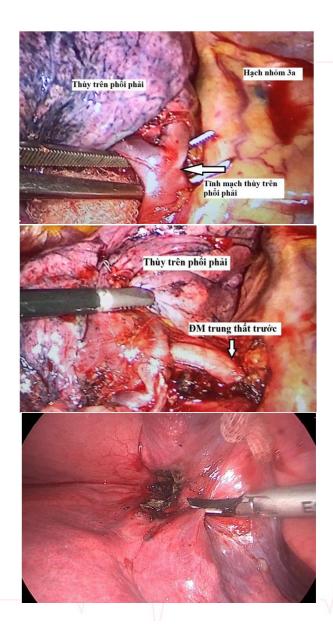
#### **Surgical protocol**

Step 1: make incision

Step 2: lesion assessment

Step 3: lobectomy and lymph node dissection

Step 4: closure



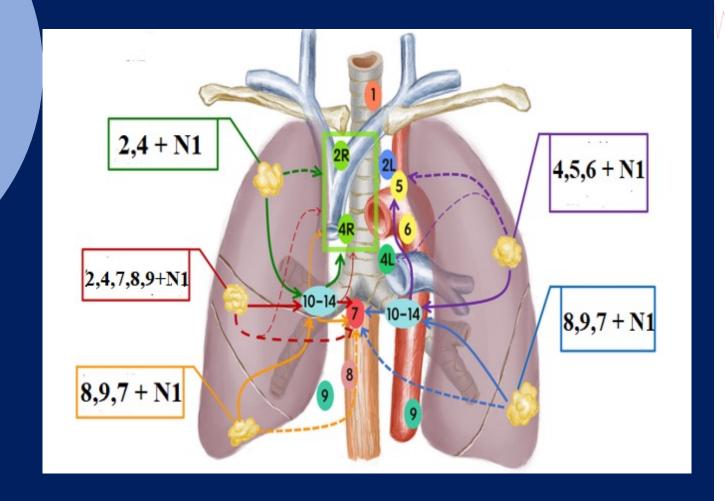








# Lymph node dissection











Adachi H., Sakamaki K., Nishii T., et al. (2017). Lobe-specific lymph node dissection as a standard procedure in surgery for non–small cell lung cancer: a propensity score matching study. Journal of Thoracic Oncology;12(1):85-93.

#### **Surgical protocol**

Step 1: make incision

Step 2: lesion assessment

Step 3: lobectomy and lymph

node dissection

Step 4: closure



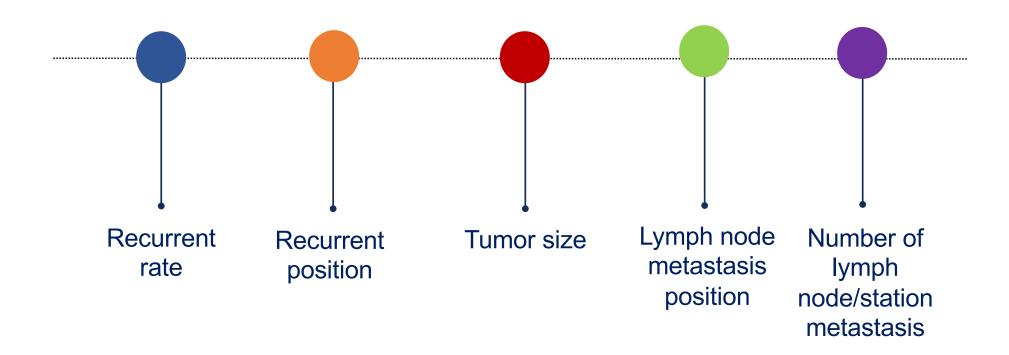








#### **Indicators**



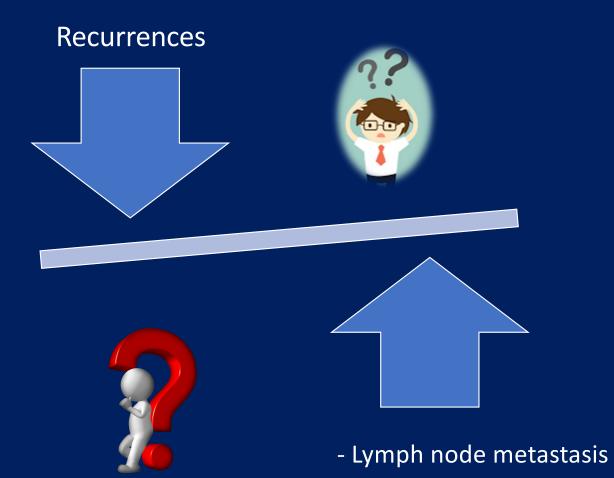








# Relationship













#### Recurrences

Recurrent status	n	%
12 months	19	19.4
24 months	29	29.6
36 months	31	31.6
48 months	34	34.7
Sum	34	34.7

Boyd et al (2010): recurrent rate 39%









# **Recurrent position**

Recurrent position		Recurrence	ce (n = 34)	Total (n = 98)		
Necurren	Recuirent position		%	n	%	
	Lymph node	5	14.7	5	5.1	
	Lung	2	5.9	2	2.0	
	Brain	6	17.6	6	6.1	
Recurrence	Bone	2	5.9	2	2.0	
	Liver	1	2.9	1	1.0	
	Multi-position	18	52.9	18	18.4	
Sum		34	100	34	34.7	
	64	65.3				









Tran Minh Bao Luan, Nguyen Van Loi: high rate of multiple position recurrences 23.8 – 95.4%

# Recurrences and number of LN metastasis

Recurrent characteristics		Number	of LN me	Total		
		0 LN	1 LN	≥ 2 LNs	Total	р
Non-recurrence	n	51	5	8	64	
	%	75.0	62.5	36.4	65.3	
Recurrences	n	17	3	14	34	< 0.003
	%	25.0	37.5	63.6	34.7	
Sum	n	68	8	22	98	
	%	69.4	8.2	22.4	100.0	









# Recurrences and number of station metastasis

Recurrent characteristics		Number o				
		0 station	1 station	≥ 2 stations	Total	р
Non-	n	51	7	6	64	
recurrences	%	75.0	50.0	37.5	65.3	
Recurrences	n	17	7	10	34	<0.02
	%	25.0	50.0	62.5	34.7	
	n	68	14	16	98	
	%	69.4	14.3	16.3	100.0	









#### **Recurrences and tumor size**

Recurrent characteristics			T-1-1			
		≤ 3cm	3 – 5cm	> 5-7cm	Total	р
Non-	n	48	13	3	64	
recurrences	%	76.2%	48.1%	37.5%	65.3%	
Recurrences	n	15	14	5	34	<0.05
	%	23.8%	51.9%	62.5%	34.7%	<0.05
Sum	n	63	27	8	98	
	%	64.3	27.6	8.2	100.0%	









Bui Chi Viet. Surgery for primary non-small cell lung cancer . Ho Chi Minh city: Cancer, Ho Chi Minh City Medicine and Pharmacy University; 2011.

Marty-Ané C-H, Canaud L, Solovei L, Alric P, Berthet J-PJIc, surgery t. Video-assisted thoracoscopic lobectomy: an unavoidable trend? A retrospective single-institution series of 410 cases. 2013;17(1):36-43.

# Recurrences and histopathological type

Recurrent characteristics		Histopatho			
		ent characteristics Adenocarcinoma adenocarcinoma		Total	р
Non-recurrences	n	60	4	64	
Non recurrences	%	68.2	40.0	65.3	
Recurrences	n	28	6	34	0.09
	%	31.8	60.0	34.7	
Sum	n	88	10	98	
	%	89.8	10.2	100.0	









# Recurrences and LN metastasis station

Recurrent characteristics		L					
		(-)	N1	Skip-N2	Non-skip N2	Total	р
Non-	n	51	5	5	3	64	
recurrences	%	75.0	50.0	55.6	27.3	65.3	
Recurrences	n	17	5	4	8	34	<0.008
	%	25.0	50.0	44.4	72.7	34.7	
Sum	n	68	10	9	11	98	
	%	69.4	10.2	9.2	11.2	100.0	









# CONCULUSION

- 1. Rate of recurrence was 34.7% (34/98 patients), the majority of them was multiposition recurrence (52.9%)
- 2. The rate of recurrence was related to the number of metastatic lymph nodes, number of metastatic lymph node station, and tumor size.









