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LUNG CANCER UPDATES IASLC HIGHLIGHTS 7-10 DE SEPTIEMBRE 2019



Con la colaboración de:



illumina





Cirugía I

Dr. Florentino Hernando Trancho





Results of trimodality therapy for patients with cN2 lung cancer diagnosed by video-assisted mediastinoscopic lymphadenectomy (VAMLA)

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To analyze the results of those patients with cN2 NSCLC diagnosed by VAMLA who underwent trimodality treatment in terms of feasibility and survival

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Survival – all N2 cases (n=35)



<i>p</i> < 0.0001	n	3-y Survival	5-y Survival
Ch + RT + S	13	85%	74%
Ch + RT	15	25%	0%
Unfit for Ch+RT	7	14.3%	0%

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- LUNG CANCER UPDATES IASLC HIGHLIGHTS 7-10 DE SEPTIEMBRE 2019
- The use of VAMLA in trimodality treatment is **feasible** and invasive mediastinal **restaging** after the induction therapy **is not necessary**

 VAMLA should be included in the current staging algorithms, especially for those tumors with intermediate risk of N2 and normal mediastinum by PET-CT





RECCURRENCE PATTERN AFTER ADJUVANT CUSTOMIZED CHEMOTHERAPY BASED ON BRCA EXPRESSION LEVEL (SCAT TRIAL)

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Cumulative reccurrence and patterns





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Risk of metastases according BRCA levels and treatment

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Metastatic site	p Value
Bone	0,397
Brain	0,001
Liver	0,427
Lung	0,672
Adrenal	0,543



B.Massutí. Alicante University Hospital ISABIAL, Spanish Lung Cancer Group. Spain





- In spite of adjuvant CT around one half of resected NSCLC with lymph node involvement reccurs
- Majority of reccurrences were single site
- No differences in overall reccurrence rate among experimental customized adjuvant therapy
- Bone (37.5%) and brain (34%) metastases were the most frequent metastatic sites
- Brain metastases risk was significantly lower for patients with high BRCA1 expression treated with single agent Docetaxel







- Lymph node involvement in resected NSCLC patients remains a significant poor prognostic factor
- Low BRCA1 expression levels were associated with better overall survival
- In case of high BRCA1 expression adjuvant treatment with single agent Docetaxel without Platinum could reduce brain metastases risk





SLCG SCAT Trial: Surgical Audit to Lymph node Assessment Based on IASLC Recommendations

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Unexpected N+ after complete resection (R0) NSCLC



<u>Objective</u>: R0 - IASLC criteria \rightarrow Audit to lymph node assessment

Method: - Analysis of lymph node dissection data

- Role of lymph node dissection on survival
- > Kaplan-Meier
- > Univariate análisis (Cox)









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Results (I): Lymph node assesment

- N = 451
- Rate of assessment of main regions
- 21.1% → only 1 or 2 regions assessed
- Number of N2 regions analyzed in N1+
- Skip metastases with no N1 evaluation: 8.9%
- Highest N2 regions involved: 29,3%
- Both N1-N2 positive implied more lymph node dissection



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Results (II): Survival



5-year overall survival: 55.7% (median: 79.3 months) 5-year DFS: 41.3% (median: 36.6 months)



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- IASLC recommendations about lymph node assessment in complete resection of NSCLC were not observed in a high rate of cases included in the SLCG-SCAT trial
- Patterns of N1 and N2 involvement shown to impact prognosis
- The design of trials assessing surgical series requires the control of surgical issues to avoid recruitment biases





Mediastinal lymph node dissection (MLND) v systematic sampling (SS) v neither (NN) in population-based cohort

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- ACOSOG Z0030 trial found no survival difference between patients with early-stage NSCLC who had MLND or SS
- A meta-analysis of 1,980 patients in 5 RCTs from 1989-2007 associated better survival with MLND
- We re-enacted the Z0030 trial by comparing the survival of patients with MLND v SS v NN







- Patients with cT1 or cT2 N0 or non-hilar N1, M0 NSCLC with primary anatomic resection across all institutions within 4 contiguous US Hospital Referral Regions from 2009-2019
 - MLND: stations 2R, 4R, 7, 8, 9, and 10R for right-sided resections and 4L, 5, 6, 7, 8, 9, and 10L for left-sided resections
 - SS: Minimum of 4R, 7, and 10R on right-sided resections and 5, 6, 7, and 10L for left-sided resections
 - NN: lymph node examination that did not meet MLND or SS
- Using appropriate statistical tests, we compared demographic and clinical characteristics, perioperative complication rates and survival after assessing interactions and confounding



Results



Demographic Characteristics

	MLND 352 (17%)	SS 372 (18%)	Neither 1390 (66%)
Sex (p=0.0023)			
Male	161 (46)	179 (48)	762 (55)
Insurance (p=0.0309)			
Medicare	164 (47)	165 (44)	699 (50)
Medicaid	51 (14)	60 (16)	195 (14)
Commercial	134 (38)	137 (37)	448 (32)
Histology (p=0.0003)			
Adenocarcinoma	234 (66)	211 (57)	742 (53)
Squamous	93 (26)	127 (34)	488 (35)
Other	25 (7)	34 (9)	160 (12)
Invasive Staging (p=0.0052	2)		
Yes	43 (12)	42 (11)	237 (17)
Technique (p<0.001)			
Open	104 (30)	165 (44)	899 (65)
Robotically-assisted	241 (68)	142 (38)	272 (20)
Video-assisted	7 (2)	65 (17)	219 (16)

Perioperative Complications: Median (IQR)*

	MLND	SS	Neither
Length of surgery	108 (82-156)	147 (107-193)	140 (102-186)
(p<0.001)	108 (82-156)		140 (102-186)
Blood transfusion N(%) (p=0.02)	4 (1) 4 (1)	4 (1)	42 (3) 42 (3)
Dur. of chest	2 (1-5)	3 (2-5)	4 (3-7)
tube (p<0.001)	2 (1-5)		4 (3-7)
ICU stay	1 (1-2)	1 (1-2)	1 (1-3)
(p<0.001)	1 (1-2)		1 (1-3)
Hospital stay	4 (3-7)	5 (3-7)	6 (4-10)
(p<0.001)	4 (3-7)		6 (4-10)

Hazard Ratios (95% Confidence Intervals)

		Unadjusted	Adjusted [‡]
MLND vs Neither	0.60 (0.46, 0.77)	p<0.001	p<0.001
SS vs Neither	0.82 (0.65, 1.02)	p=0.0746	p=0.1753
MLND vs SS	0.73 (0.53 <i>,</i> 1.00)	p=0.0473	p=0.1163

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Sampling	Hazard Ratio (95% Confidence Interval)	Unadjusted P-value	Multiple Comparisons Adjusted P-value
MLND vs Neither	0.50 (0.37, 0.67)	<0.001	<0.001
SS vs Neither	0.80 (0.60, 1.06)	0.1245	0.2740
MLND vs SS	0.62 (0.43, 0.91)	0.0140	0.0372



Sampling	Hazard Ratio (95% Confidence Interval)	Unadjusted P-value	Multiple Comparisons Adjusted P-value
MLND vs Neither	1.10 (0.68, 1.77)	0.7064	0.9248
SS vs Neither	0.83 (0.58, 1.18)	0.3032	0.5582
MLND vs SS	1.32 (0.75, 2.33)	0.3362	0.6011

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- 55% of resections did not meet ACOSOG MLND or SS criteria suggesting a need for quality improvement in pathologic nodal evaluation
- The environment of care may influence the survival impact of nodal dissection; MLND was associated with superior survival over SS at teaching hospitals

