ESMO Asia 2015

15-16 December 2015, Singapore

Type: Educational session

Title: Optimal therapy for earlier stages of NSCLC

## Optimal treatment of potentially resectable stage IIIA/N2 disease

## Tetsuya Mitsudomi, MD Kinki University Faculty of Medincince



## Conflicts of Interest disclosure

- Advisor to company: AstraZeneca, Novartis, Chugai, Boehringer-Ingeleheim, Pfizer, Roche, Synta, Clovis, MSD
- Lecture fees: AstraZeneca, Chugai, Boehringer-Ingelheim, Pfizer, Taiho, Eli-Lilly, Daiichi-Sankyo
- **Research expenses**: AstraZeneca, Chugai, Boehringer-Ingelheim, Pfizer, Taiho, Ono, Daiichi-Sankyo, Eli-Lilly



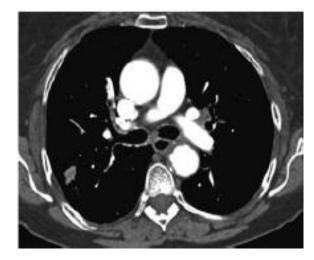
### 2nd ESMO Consensus Conference in Lung Cancer: locally advanced stage III non-small-cell lung cancer

W. E. E. Eberhardt<sup>1</sup>, D. De Ruysscher<sup>2</sup>, W. Weder<sup>3</sup>, C. Le Péchoux<sup>4</sup>, P. De Leyn<sup>5</sup>, H. Hoffmann<sup>6</sup>, V. Westeel<sup>7</sup>, R. Stahel<sup>8</sup>, E. Felip<sup>9</sup>, S. Peters<sup>10</sup> & Panel Members<sup>†</sup>

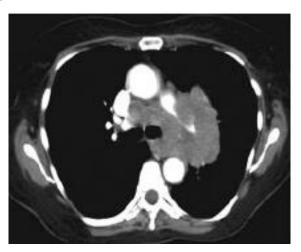
incidental IIIA(N2) (unforeseen N2)

#### potentially resectable IIIA(N2) disease

unresectable IIIA (N2) disease and IIIB disease patients



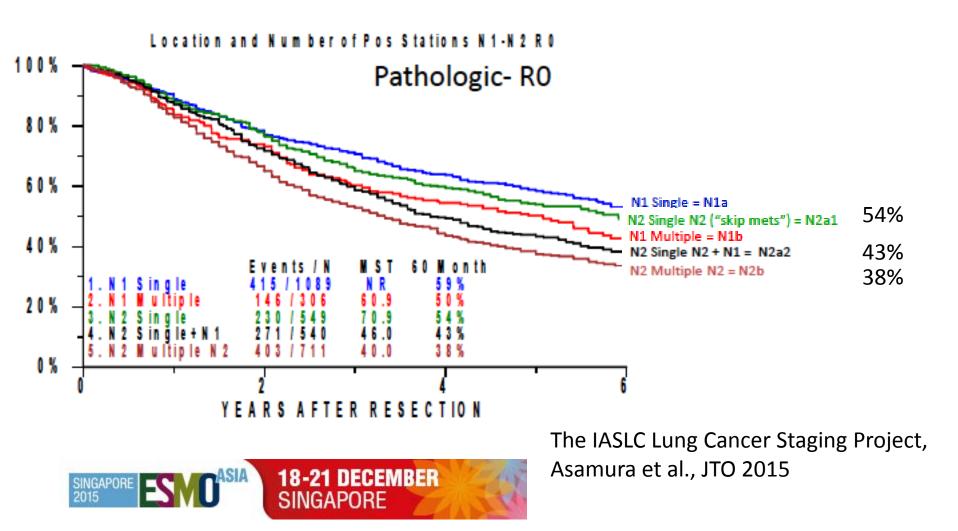






Pictures are from ACCP guideline for non-invasive mediastinal staging, 2007

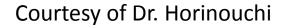
Exploratory analyses of survival for pN1 and pN2 according to thenumber of metastatic nodal stations (single versus multiple, skip metastasis versus non-skip metastasis) for R0



## State of the art: Chemoradiation for cN2

- WJTOG0105(MVP+RT/CBDCA+PTX+RT/CDDP+CPT+RT) Yamamoto et al., JCO, 2010
  - MST: 19.8-22mo、5YSR: ca20%
- OLCSG0007 (MVP+RT/CDDP+DTX+RT) Segawa et al., JCO, 2010
  - MST: 23.7-26.8mo、5YSR: ca20%
  - local recurrence: 37.6-38.4%
- RTOG 0617(CBDCA+PTX+74/60Gy、 ± Cetuximab) Bradley et al., Lancet Oncol, 2015
  - MST: 60Gy group 28.7mo, 74Gy group 19.5mo
  - local rec: 60Gy group 25% 、74Gy group34%
  - no benefit in 74Gy group
  - no benefit of addition of Cetuximab
- PROCLAIM (CDDP+PEM+RT vs.CSSP+ ETP +RT) Senan et al., ASCO, 2015
  - MST: ETP 25.0mo、PEM 26.8mo
  - no benefit of CDDP+PEM



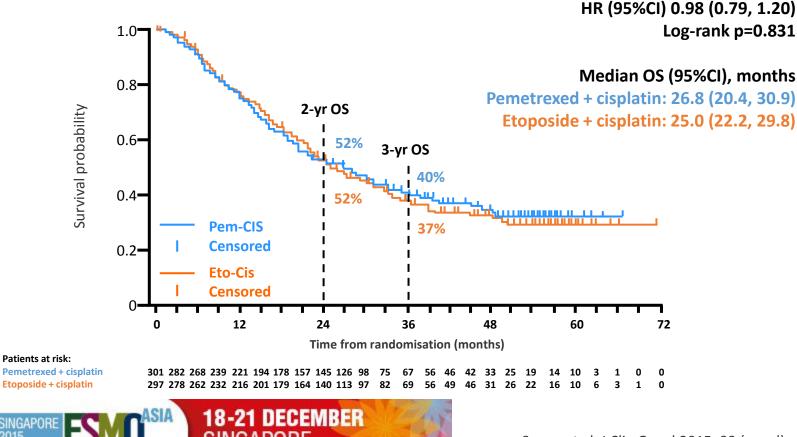








7506: Final overall survival (OS) results of the phase III PROCLAIM trial: Pemetrexed (Pem), cisplatin (Cis) or etoposide (Eto), Cis plus thoracic radiation therapy (TRT) followed by consolidation cytotoxic chemotherapy (CTX) in locally advanced nonsquamous non-small cell lung cancer (nsNSCLC) – Senan S et al ASCO 2015



Senan et al. J Clin Oncol 2015; 33 (suppl): abstr 7506

#### what are the optimal multi-modality combinations for the different stage III disease sub-stages?

#### incidental IIIA(N2) (unforeseen N2)

Recommendation 4.1: If, despite adequate mediastinal staging procedures, N2 disease is only documented intra-operatively, surgery should be followed by adjuvant chemotherapy [I, A]. In case of complete resection, addition of post-operative radio-therapy is not routinely recommended, but may be an option following individual risk assessment [V, C].

#### potentially resectable IIIA(N2) disease

#### preoperative diagnosis of IIIA(N2)

Recommendation 4.2.1: Possible strategies include several options: <u>induction chemotherapy followed by surgery</u>, induction chemoradiotherapy followed by surgery, or concurrent definitive chemoradiotherapy [I, A]. No recommendation can yet be made; however, an experienced multidisciplinary team is of paramount importance in any complex multi-modality treatment strategy decision. If induction chemotherapy alone is given preoperatively, post-operative radiotherapy is not standard treatment but may be an option based on critical evaluation of locoregional relapse risks [IV, C].

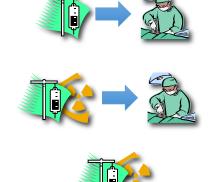
## unresectable IIIA (N2) disease and IIIB disease patients

Recommendation 4.3: Concurrent chemoradiotherapy is the treatment of choice in patients evaluated as unresectable in stage IIIA and IIIB [I, A]. If concurrent chemoradiotherapy is not possible—for any reason - sequential approaches of induction chemotherapy followed by definitive radiotherapy represent a valid and effective alternative [I, A].



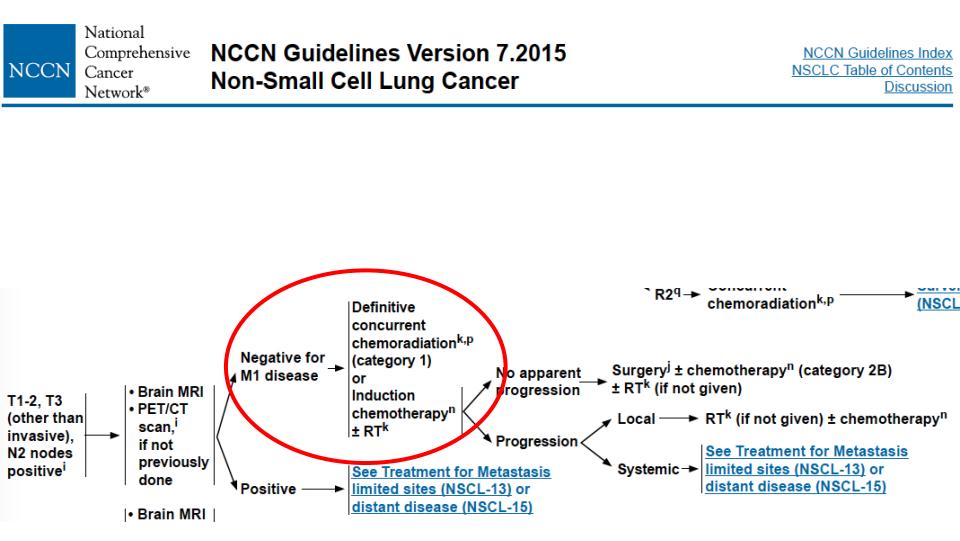
W. E. E. Eberhardt<sup>1</sup>, D. De Ruysscher<sup>2</sup>, W. Weder<sup>3</sup>, C. Le Péchoux<sup>4</sup>, P. De Leyn<sup>5</sup>, H. Hoffmann<sup>6</sup>, <u>V Westeel<sup>7</sup></u>, R. Stahel<sup>8</sup>, E. Felip<sup>9</sup>, S. Peters<sup>10</sup> & Panel Members<sup>†</sup>





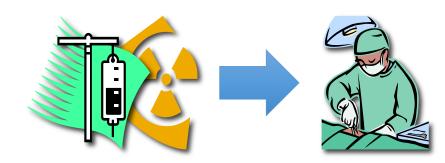








## Role of surgery ?

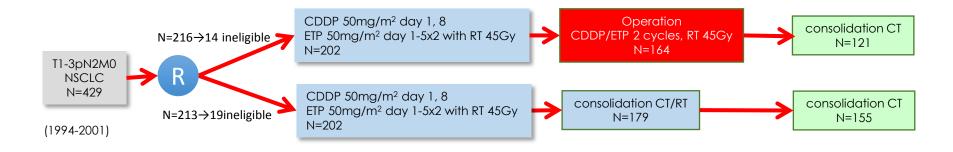


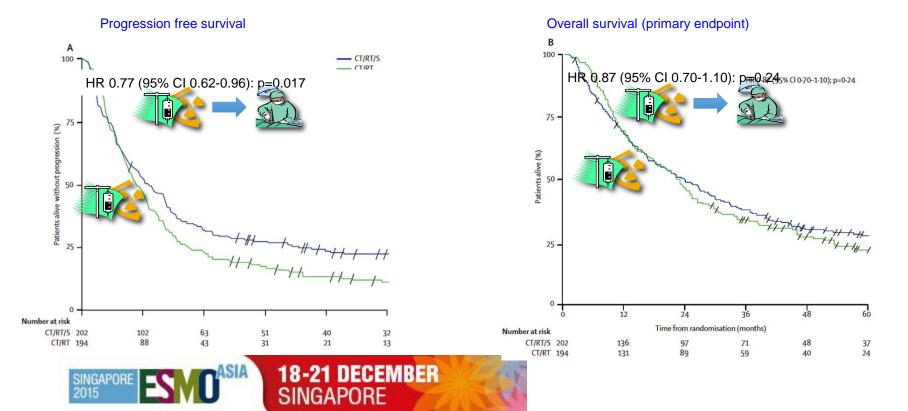
VS.



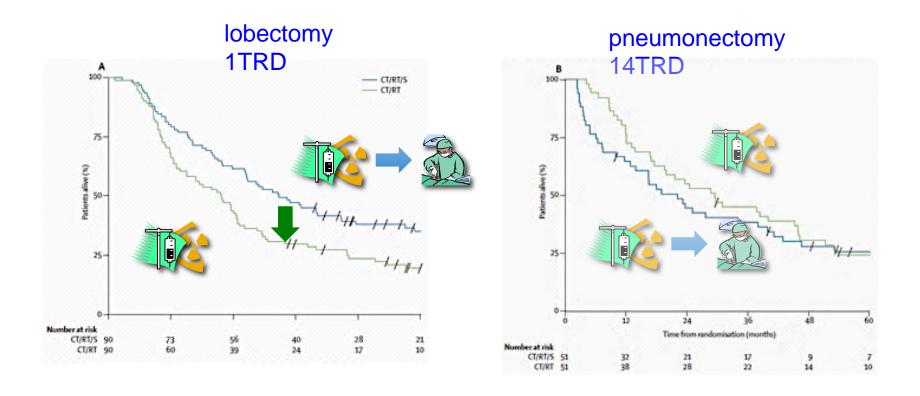


### Radiotherapy plus chemotherapy with or without surgical resection for stage III NSCLC: a phase III randomized controlled trial (INT0139) Albain et al., Lancet 2009





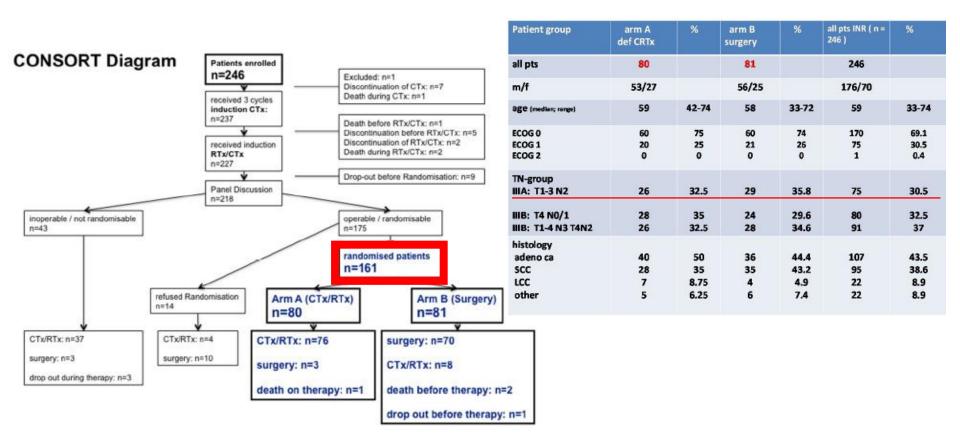
Radiotherapy plus chemotherapy with or without surgical resection for stage III NSCLC: a phase III randomized controlled trial (INT0139) Albain et al., Lancet 2009





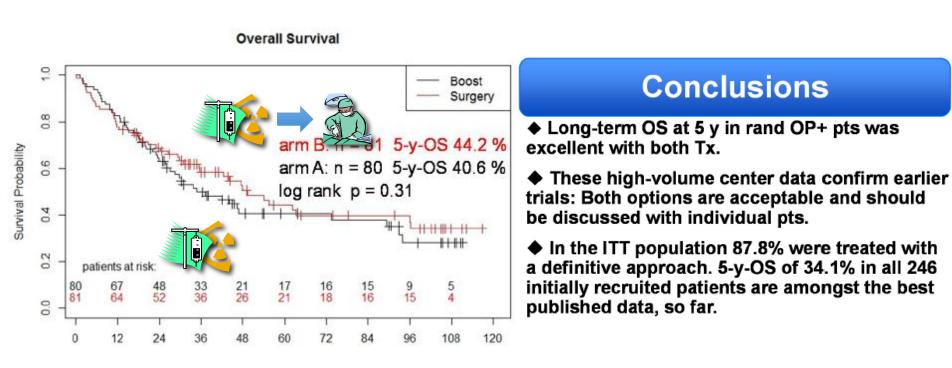
Phase III study of surgery vs. definitive concurrent chemoradiotherapy boost in patients with operable (stage IIIA(N2)/selected IIIb (sel IIIB) NSCLC following induction chemotherapy and concurrent CRTx (ESPATUE).

Eberhardt et al., Abstr 7510 et al. ASCO 2014



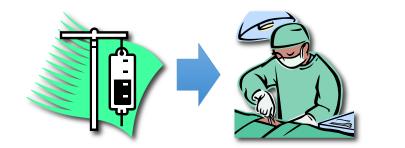


Phase III study of surgery vs. definitive concurrent chemoradiotherapy boost in patients with operable (stage IIIA(N2)/selected IIIb (sel IIIB) NSCLC following induction chemotherapy and concurrent CRTx (ESPATUE). Eberhardt et al., Abstr 7510 et al. ASCO 2014

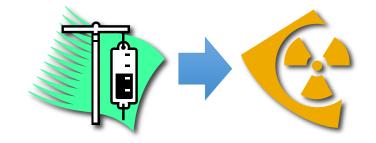




## Role of surgery ?



VS.





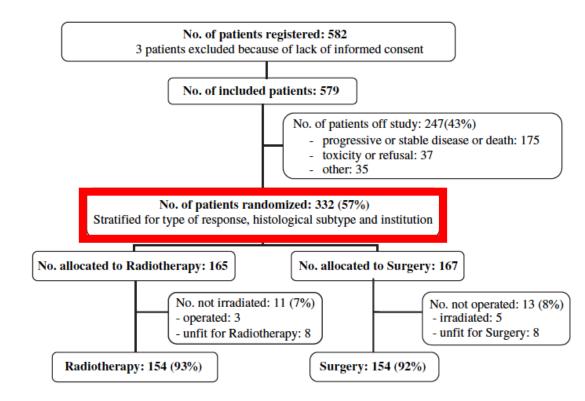
Randomized controlled trial of resection vs. radiotherapy after induction chemotherapy in stage IIA-N2 NSCLC van Meerbeeck et al., J Natl Cancer Inst, 2007

Eligible patients cytologic or histologic proof of unresectable stage IIIA-N2

Guidelines for unresectability

- any N2 involvement by a nonsq
- in case of sq ca, any N2 nodal involvement exceeding level 4R for a right-sided tumor and level 5 and 6 for a left-sided

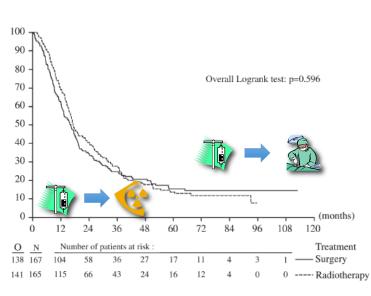
tumor.





### Randomized controlled trial of resection vs. radiotherapy after induction chemotherapy in stage IIA-N2 NSCLC van Meerbeeck et al., J Natl Cancer Inst, 2007

#### **Overall survival**



#### Table 5. Exploratory analyses in 154 patients in the resection surgery arm\*

		Median OS, months			P, Multivariable
Subgroup	Ν	(95% CI)	5-year OS, %	P, Univariate analysis	analysis
Extent of resection				.009	.03
(Bi-)lobectomy	58	25.4 (17.7 to 48.9)	27		
Pneumonectomy	72	13.4 (11.1 to 19.5)	12		
Mediastinal status				<.001	.04
vpN0-1	64	22.7 (17.6 to 42.7)	29		
ypN2	86	14.9 (11.2 to 18.5)	7		
Type of resection				<.001	.01
Complete	77	24.1 (16.7 to 42.4)	27		
Incomplete	76	12.1 (9.5 to 17.1)	7		
No PORT	92	14.1 (11.2 to 19.9)	19	.6	.004
PORT	62	18.0 (15.0 to 25.9)	13		

\* OS = overall survival; PORT = postoperative radiotherapy; CI = confidence interval; ypN = pathologic N after induction therapy. P values were calculated using a two-sided log-rank test.



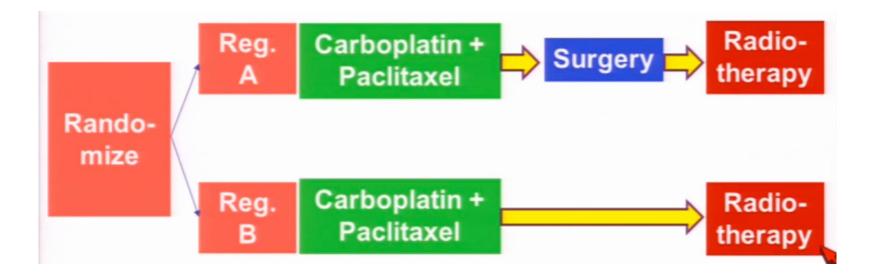
Only 57% of the patients were randomized due to PD, toxicity

## Role of surgery ?



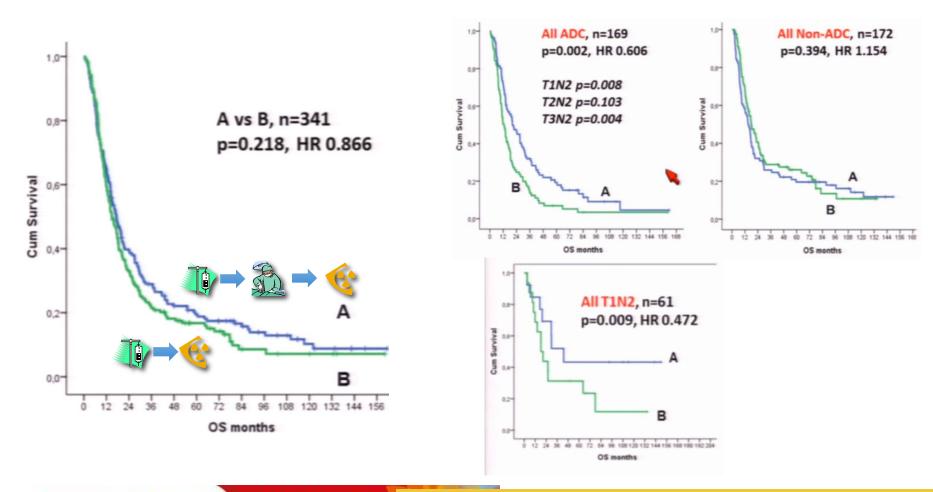


Surgery for NSCLC stages T1-3N2M0 having preoperative pathologically verified N2 involvement: A prospective randomized multinational phase III trial by Nordic Thoracic Oncology Group Sorensen, JB, et al., ASCO 2013 abstr 7504



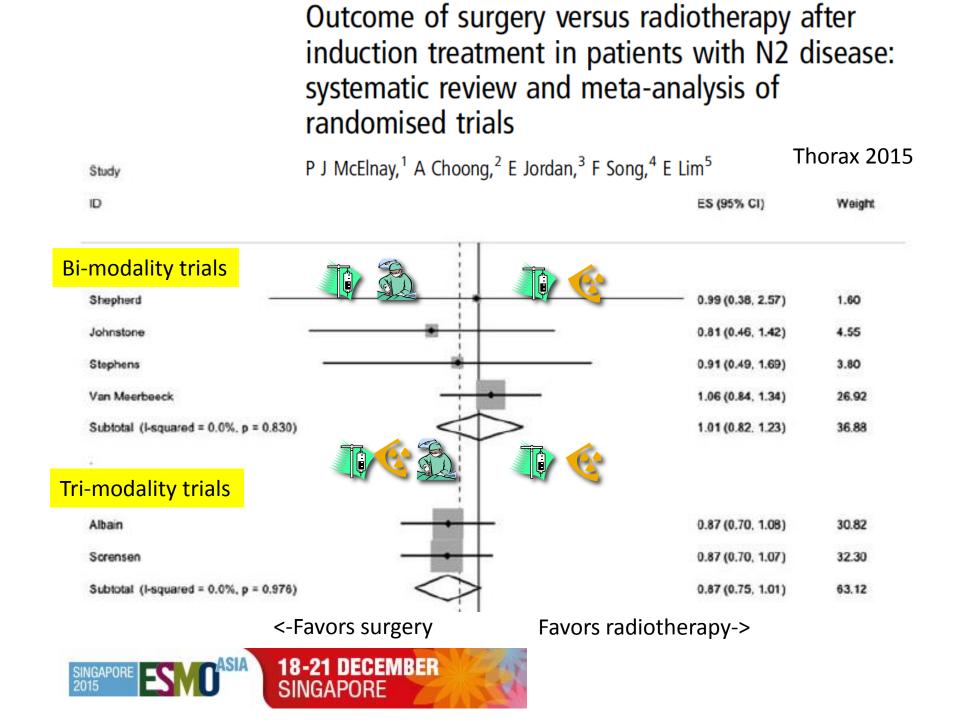


Surgery for NSCLC stages T1-3N2M0 having preoperative pathologically verified N2 involvement: A prospective randomized multinational phase III trial by Nordic Thoracic Oncology Group Sorensen, JB, et al., ASCO 2013 abstr 7504





Conclusions: Formally negative but surgery may be beneficial for T1N2 or in Adnocarcinoma



## Trimodality vs Bimodality





### Effect of preoperative chemoradiation in addition to preoperative chemotherapy: a randomised trial in stage III non-small-cell lung cancer

Lancet Oncol 2008; 9: 636-648

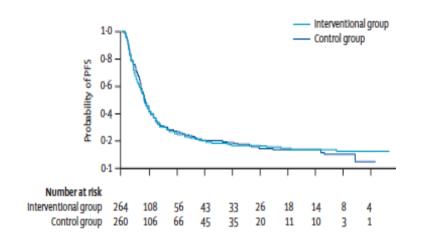
Michael Thomas, Christian Rübe, Petra Hoffknecht, Hans N Macha, Lutz Freitaq, Albert Linder, Norman Willich, Michael Hamm, Gerhard W Sybrecht, Dieter Ukena, Karl-Matthias Deppermann, Cornelia Dröge, Dorothea Riesenbeck, Achim Heinecke, Cristina Sauerland, Klaus Junker, Wolfgang E Berdel\*, Michael Semik\*, for the German Lung Cancer Cooperative Group\*\*

18-21 DECEMBER

SINGAPORE

N=142 N=49 N=279 Resectable stage IIIA/IIIB NSCLC N=279 N=260 N=154 N=187

N=264



PS 0-1

N=558

Age<70

SINGAPORE

2015

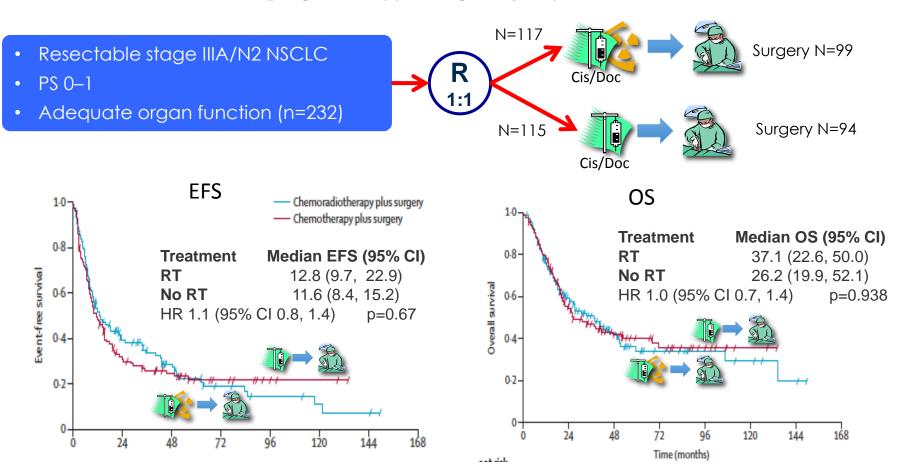
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	EORTC 08941' (stage IIIA; N2)	INT 0139 <sup>44</sup> (stage IIIA; N2)	GLCCG (stage IIIA or IIIB)		p
	CT, response, randomisation, surgery vs RT	Randomisation, CT/RT vs CT/RT, surgery, CT	Randomisation; CT, CT/RT, surgery	Randomisation; CT, surgery, RT	-
Patients initially eligible, n	579	396	264	260	
Patients initially allocated to surgery, n	2	202	264	260	
Patients allocated to surgery after induction, n	167	177	202	226	
Patients undergoing surgery, n	154	164	142	154	
Patients with negative resection margins, %	†	88	84	77	p=0·16‡
Patients with complete resection¶, %	50	t	69	55	p=0-01‡
Patients with exploratory thoracotomy, %	14	5-5	8	8	
Patients with lobectomy or bilobectomy, %	38	59	56	55	
Patients with pneumonectomy, %	47	33	35	35	
Surgical mortality, %					
Total	4	7.9	9-2	45	p=0·11‡
After lobectomy or bilobectomy	0	1	7-5	2-4	p=0·12‡
After pneumonectomy	7	26	14-0	5.5	p=0·14‡

### Induction chemoradiation in stage IIIA/N2 non-small-cell lung cancer: a phase 3 randomised trial SAKK 16/00 trial

Miklos Pless, Roger Stupp, Hans-Beat Ris, Rolf A Stahel, Walter Weder, Sandra Thierstein, Marie-Aline Gerard, Alexandros Xyrafas, Martin Früh, Richard Cathomas, Alfred Zippelius, Arnaud Roth, Milorad Bijelovic, Adrian Ochsenbein, Urs R Meier, Christoph Mamot, Daniel Rauch, Oliver Gautschi, Daniel C Betticher, René-Olivier Mirimanoff, Solange Peters, on behalf of the SAKK Lung Cancer Project Group



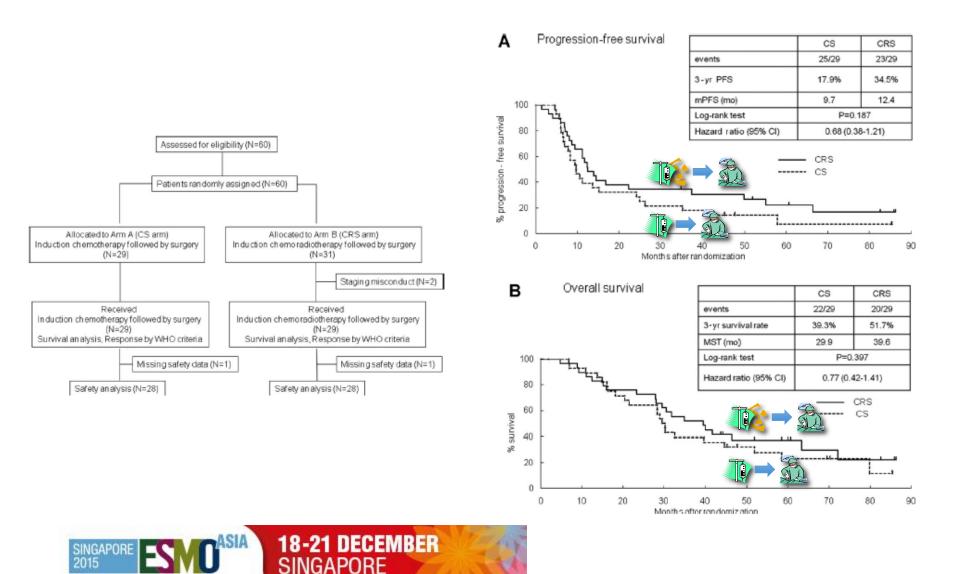
Lancet 2015; 386: 1049-56

Interpretation Radiotherapy did not add any benefit to induction chemotherapy followed by surgery

SINGAPORE

2015

A Phase 3 Study of Induction Treatment With Concurrent Chemoradiotherapy vs Chemotherapy Before Surgery in Patients With Pathologically Confirmed N2 Stage IIIA NSCLC (WJTOG9903) Katakami N, Tada H, Mitsudomi T, et al., Cancer 2012



## preoperative chemotherapy





Pro resectability local control micomets Con delay surgery increased morbidity



VS.



## The New England Journal of Medicine

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Volume 330	JANUARY 20, 1994	Number 3
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#### A RANDOMIZED TRIAL COMPARING PREOPERATIVE CHEMOTHERAPY PLUS SURGERY WITH SURGERY ALONE IN PATIENTS WITH NON-SMALL-CELL LUNG CANCER

RAFAEL ROSELL, M.D., PH.D., JOSÉ GÓMEZ-CODINA, M.D., PH.D., CARLOS CAMPS, M.D.,
JOSÉ MAESTRE, M.D., PH.D., JOSÉ PADILLE, M.D., ANTONIO CANTÓ, M.D., JOSÉ LUIS MATE, M.D.,
SHANRONG LI, M.D., JORGE ROIG, M.D., PH.D., ANGEL OLAZÁBAL, M.D., PH.D.,
MERCEDES CANELA, M.D., PH.D., AURELIO ARIZA, M.D., PH.D., ZDENĚK SKÁCEL, M.D.,
JOSÉ MORERA-PRAT, M.D., PH.D., AND ALBERT ABAD, M.D., PH.D.

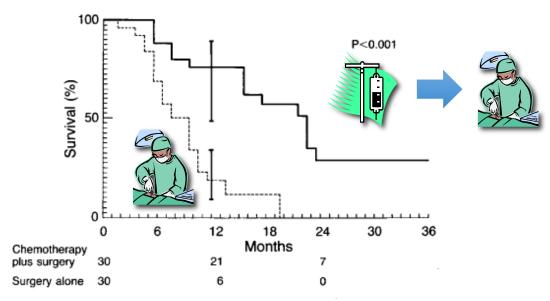


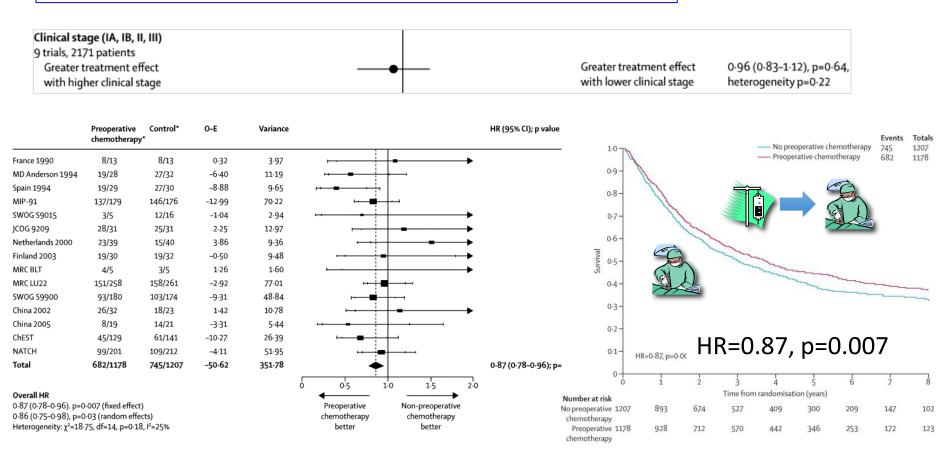
Figure 2. Kaplan–Meier Plot of Overall Survival in Patients with Stage IIIA Lung Cancer Treated with Surgery Alone (Dashed Line) or Chemotherapy plus Surgery (Solid Line).



### Preoperative chemotherapy for non-small cell lung cancer: a systematic review and meta-analysis of individual participant data

NSCLC Meta-analysis Collaborative Group\*

The Lancet, 2014; 383, 1561 - 1571





Supplement



CHEST

DIAGNOSIS AND MANAGEMENT OF LUNG CANCER, 3RD ED: ACCP GUIDELINES

#### Treatment of Stage III Non-small Cell Lung Cancer

Diagnosis and Management of Lung Cancer, 3rd ed: American College of Chest Physicians Evidence-Based Clinical Practice Guidelines

Nithya Ramnath, MD; Thomas J. Dilling, MD; Loren J. Harris, MD, FCCP; Anthony W. Kim, MD, FCCP; Gaetane C. Michaud, MD, FCCP; Alex A. Balekian, MD, MSHS; Rebecca Diekemper, MPH; Frank C. Detterbeck, MD, FCCP; and Douglas A. Arenberg, MD, FCCP

### **Discrete mediastinal node involvement**

**2013 ACCP guidelines** 

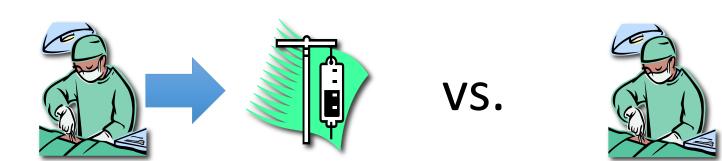
In patients with discrete N2 involvement by NSCLC identified preoperatively (IIIA),

3.5.2. either definitive chemoradiation therapy or induction therapy followed by surgery is recommended over either surgery or radiation alone (Grade 1A).

3.5.3. primary surgical resection followed by adjuvant therapy is not recommended (Grade 1C) .



## Postoperative adjuvant chemotherapy

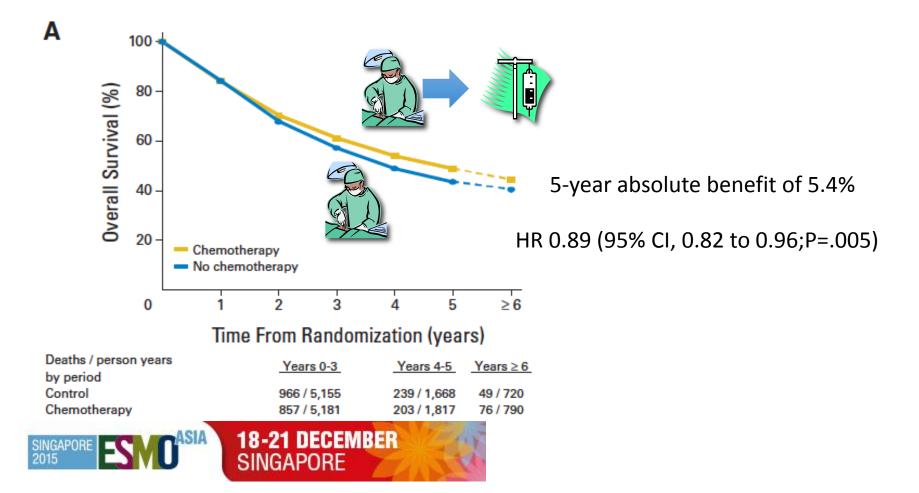




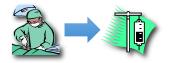
JOURNAL OF CLINICAL ONCOLOGY

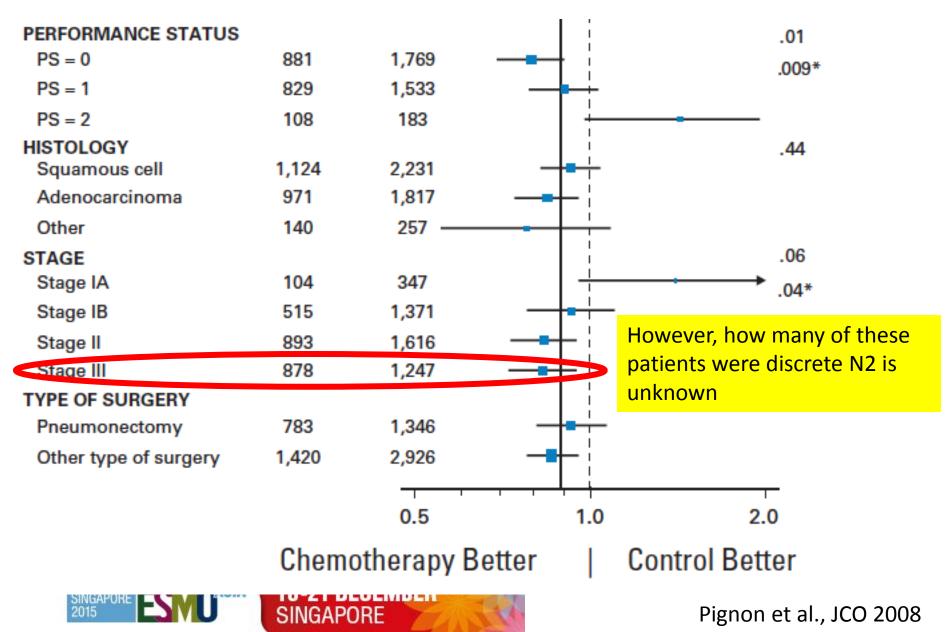
### Lung Adjuvant Cisplatin Evaluation: A Pooled Analysis by the LACE Collaborative Group

Jean-Pierre Pignon, Hélène Tribodet, Giorgio V. Scagliotti, Jean-Yves Douillard, Frances A. Shepherd, Richard J. Stephens, Ariane Dunant, Valter Torri, Rafael Rosell, Lesley Seymour, Stephen G. Spiro, Estelle Rolland, Roldano Fossati, Delphine Aubert, Keyue Ding, David. Waller, and Thierry Le Chevalier



## LACE Meta-analysis (OS)

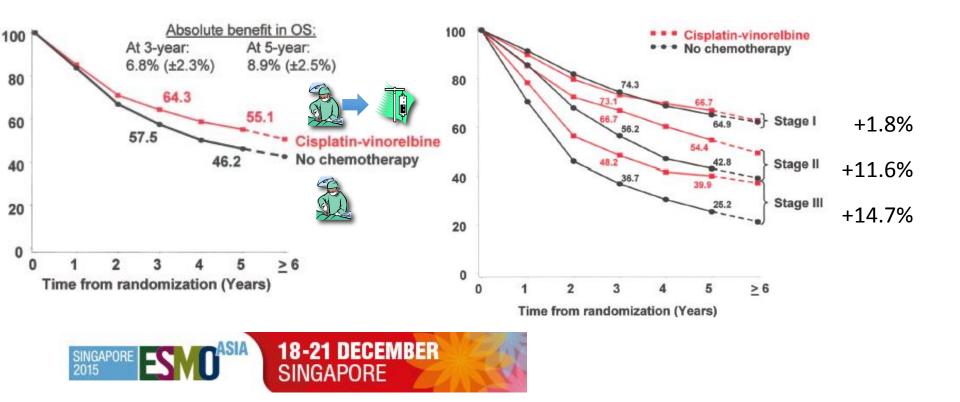




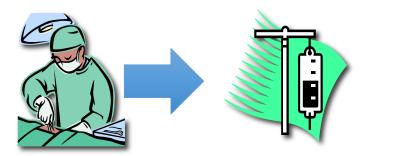
### Adjuvant Cisplatin and Vinorelbine for Completely Resected Non-small Cell Lung Cancer

Subgroup Analysis of the Lung Adjuvant Cisplatin Evaluation

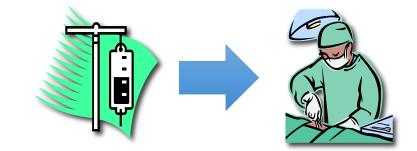
Jean-Yves Douillard, MD, PhD,\* Hélène Tribodet, MSc,† Delphine Aubert, MSc,‡ Frances A. Shepherd, MD,§ Rafael Rosell, MD, PhD,|| Keyue Ding, PhD,¶ Anne-Sophie Veillard, MSc,† Lesley Seymour, PhD,¶ Thierry Le Chevalier, MD,# Stephen Spiro, MD,\*\* Richard Stephens,†† Jean Pierre Pignon, MD, PhD,† and on behalf of the LACE Collaborative Group



## Preop vs postop chemotherapy



VS.



Pros imprrove resectabilty sterile micromets in vivo sensitivity test better tolerability, dose intensity Cons delay surgery increase morbidity?



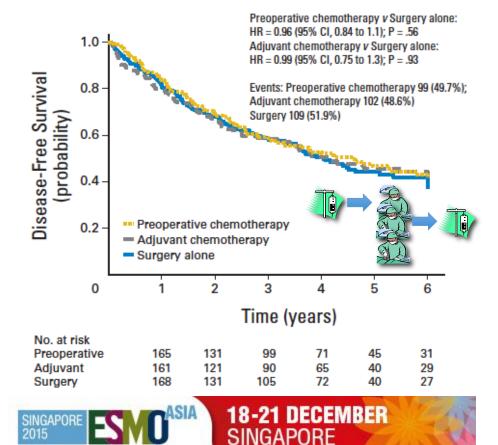
Preoperative vs. postoperative chemotherapy in patients with resectable NSCLC: Systematic review of indirect comparison meta-analyisis of randomized trials Lim et al., J Thorac Oncol, 4:1380-1388, 2009

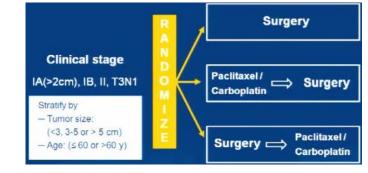
			76	
	Study ID	ES (95% CI)	Weight	size
	Post-operative			
(E)	Arriagada, 2004	0.86 (0.76, 0.97)	11.15	1867
	Douillard, 2006	0.76 (0.63, 0.92)	8.05	840
	Endo, 2003	0.88 (0.51, 1.52)	1.71	221
	Feld, 1993	1.02 (0.72, 1.44)	3.66	283
	Imaizumi (1), 2005	0.36 (0.16, 0.81)	0.83	150
	Imaizumi (2), 2005	0.84 (0.42, 1.68)	1.11	150
12/24included N2	Kato, 2004	0.71 (0.52, 0.97)	4.32	999
IZ/Z4IIICIUUEU NZ	Nakagawa, 2005	0.57 (0.32, 1.02)	1.56	332
	Nakagawa, 2006	0.72 (0.46, 1.13)	2.47	267
	Niiranen, 1992	0.57 (0.33, 1.00)	1.67	110
	Ohta, 1993	1.04 (0.70, 1.52)	3.10	181
	Park, 2005	0.66 (0.36, 1.23)	1.37	118
	Roselli, 2006	0.85 (0.40, 1.81)	0.95	140
	Scagliotti, 2003	0.96 (0.81, 1.14) 0.69 (0.48, 0.99)	8.83 3.46	1209 333
	Strauss, 2006	0.80 (0.57, 1.13)	3.46	344
	Tada, 2004	0.96 (0.61, 1.51)	2.40	119
	Ueda, 2004	0.15 (0.02, 1.27)	0.13	30
	Wada, 1996	0.64 (0.42, 0.97)	2.72	323
	Wada, 1999	0.80 (0.48, 1.34)	1.91	225
	Waller, 2004	1.02 (0.77, 1.35)	5.00	381
	Winton, 2005	0.67 (0.51, 0.89)	5.06	482
	Xu, 2000 — .	0.49 (0.27, 0.90)	1.43	70
	Subtotal (I-squared = 22.5%, p = 0.163)	0.80 (0.74, 0.87)	76.58	
La let				
	Pre-operative			
	Dautzenberg, 1990	1.10 (0.41, 2.93)	0.58	26
	*Pass, 1992	0.43 (0.16, 1.16)	0.58	27
	*Roth, 1998	0.89 (0.42, 1.88)	0.96	60
	Gilligan, 2007	0.78 (0.60, 1.02) 1.02 (0.80, 1.31)	5.39 5.92	355 519
10/10 included N2	Nagai, 2007	1.22 (0.66, 2.25)	1.40	62
,	Rosell, 1999	0.47 (0.27, 0.79)	1.79	60
	Pisters, 2007	0.83 (0.61, 1.13)	4.29	354
	Sorensen, 2005	0.89 (0.49, 1.62)	1.45	90
Conclusions: the relative hazards of postoperative	Yi, 2003	0.48 (0.24, 0.99)	1.05	84
compared with preoperative chemotherapy	Subtotal (I-squared = 31.6%, p = 0.155)	0.81 (0.67, 0.97)	23.42	
· · · · · · · · · · · · · · · · · · ·				
was 0.99 (0.81–1.21; p 0.91).	Heterogeneity between groups: p = 0.805			
	Overall (I-squared = 23.1%, p = 0.119)	0.80 (0.75, 0.87)	100.00	
In patients with resectable lung cancer, there was	NOTE: Weights are from random effects analysis			
no evidence of a difference OS and DFS between				
no evidence of a unreferce OS and DFS between	.1 1 10			
postoperative versus preoperative CTx				
	Favours chemotherapy Favours Control			

JOURNAL OF CLINICAL ONCOLOGY

### Preoperative Chemotherapy Plus Surgery Versus Surgery Plus Adjuvant Chemotherapy Versus Surgery Alone in Early-Stage Non–Small-Cell Lung Cancer

Enriqueta Felip, Rafael Rosell, José Antonio Maestre, José Manuel Rodríguez-Paniagua, Teresa Morán, Julio Astudillo, Guillermo Alonso, José Manuel Borro, José Luis González-Larriba, Antonio Torres, Carlos Camps, Ricardo Guijarro, Dolores Isla, Rafael Aguiló, Vicente Alberola, José Padilla, Abel Sánchez-Palencia, José Javier Sánchez, Eduardo Hermostlla, and Bartomeu Massuti

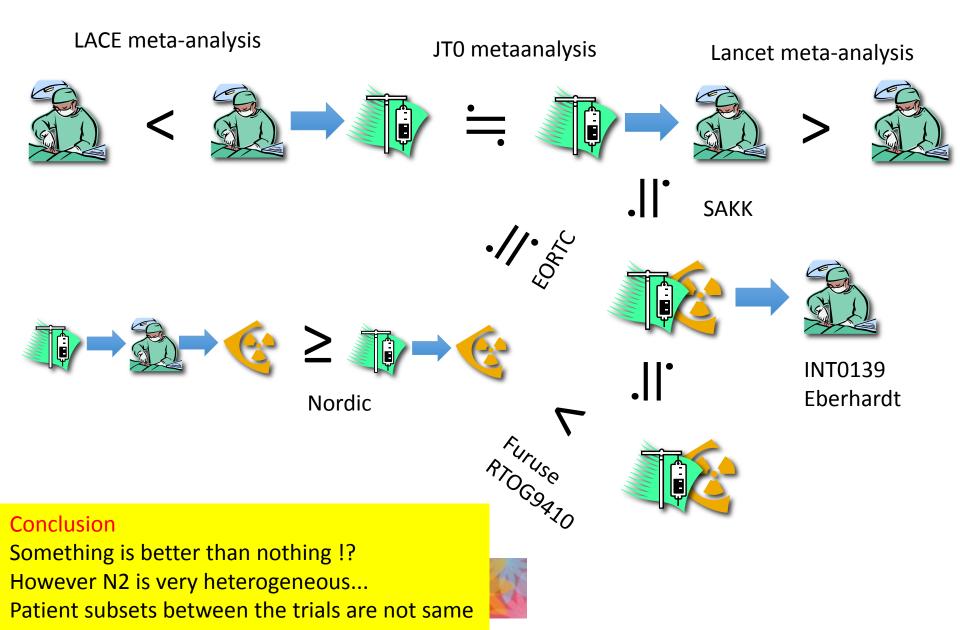




624 patients with stage IA (tumor size 2 cm), IB, II

In early-stage patients, no statistically significant differences in disease-free survival were found with the addition of preoperative or adjuvant chemotherapy to surgery.;

### Summary... Peri-operative chemo/radiotherapy for N2 disease



## Clinical practice?



### Improved Survival Associated with Neoadjuvant Chemoradiation in Patients with Clinical Stage IIIA(N2) Non–Small-Cell Lung Cancer

Matthew Koshy, MD, \*† Stacey A. Fedewa, MPH, ‡ Renu Malik, MD, † Mark K. Ferguson, MD, §¶ Wickii T. Vigneswaran, MD, § Lawrence Feldman, MD, || Andrew Howard, MD, \*† Khaled Abdelhady, MD,# Ralph R. Weichselbaum, MD, \*† and Katherine S. Virgo, PhD, MBA ‡\*\*

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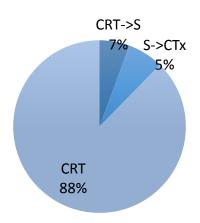


TABLE 1. Patient, Facility and Area-Level Characteristics by Treatment Type among Clinical Stage IIIA-N2 Non–Small-Cell Lung Cancer Patients, National Cancer Database (NCDB) 1998–2004

Categories	Total	Neoadjuvant Chemoradiotherapy + Lobectomy	Neoadjuvant Chemoradiotherapy + Pneumonectomy		Pneumonectomy + Adjuvant Therapy	Definitive Concurrent Chemoradiotherapy	p
	N = 11242	n = 564	<i>n</i> = 188	n = 510	n = 123	n = 9857	
	%	(4.94)	(1.65)	(4.46)	(1.08)	(86.28)	

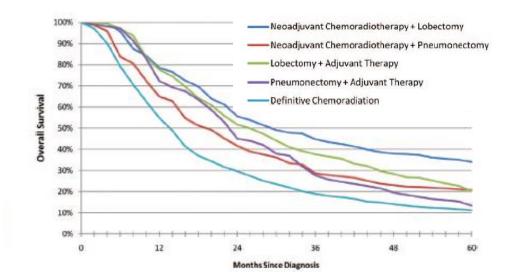
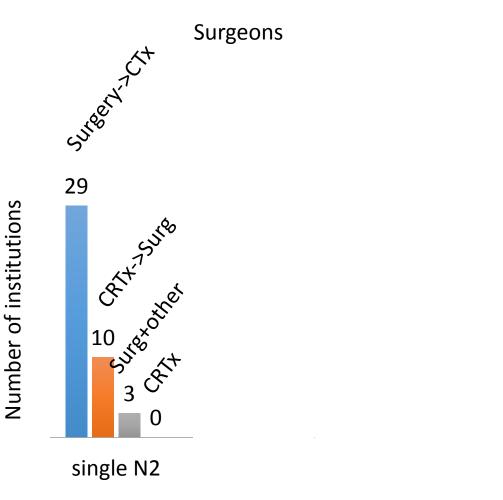


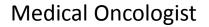
 TABLE 2.
 Multivariate Cox Proportional Hazard Models

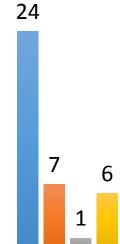
 Predicting 5-year Overall Survival among Clinical Stage
 IIIA-N2 NSCLC Patients, NCDB 1998–2004 (n = 10,058)

	5-Year Survival <sup>a,b</sup>		
Parameter	HR	95% CI	
Treatment			
Definitive chemoradiation	1.00		
Neoadjuvant chemoradiotherapy + lobectomy	0.51	(0.45-0.58)	
Neoadjuvant chemoradiotherapy + pneumonectomy	0.77	(0.63-0.95)	
Lobectomy + adjuvant therapy	0.66	(0.59-0.75)	
Pneumonectomy + adjuvant therapy	0.69	(0.54-0.88)	

# Questionnaire survey by JCOG lung cancer surgical group (Sep, 2013)





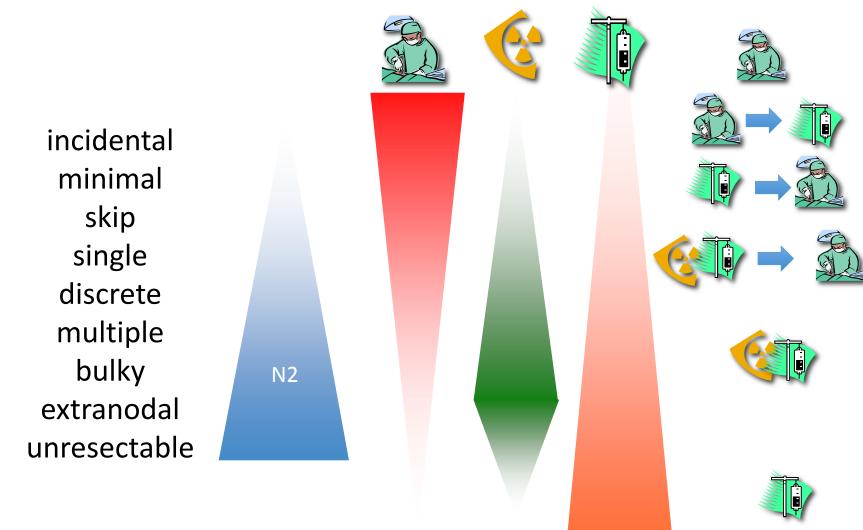


single N2



Courtesy of Dr. Horinouchi

## Treatment decision in the continuum of N2 disease





Annals of Oncology 26: 1573-1588, 2015 doi:10.1093/annonc/mdv187 Published online 20 April 2015

#### 2nd ESMO Consensus Conference in Lung Cancer: locally advanced stage III non-small-cell lung cancer

W. E. E. Eberhardt<sup>1</sup>, D. De Ruysscher<sup>2</sup>, W. Weder<sup>3</sup>, C. Le Péchoux<sup>4</sup>, P. De Leyn<sup>5</sup>, H. Hoffmann<sup>6</sup>, V. Westeel<sup>7</sup>, R. Stahel<sup>8</sup>, E. Felip<sup>9</sup>, S. Peters<sup>10</sup> & Panel Members<sup>†</sup>





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### potentially resectable IIIA(N2) disease

preoperative diagnosis of IIIA(N2)

Recommendation 4.2.1: Possible strategies include several options: induction chemotherapy followed by surgery, induction chemoradiotherapy followed by surgery, or concurrent definitive chemoradiotherapy [I, A]. No recommendation can yet be made; however, an experienced multidisciplinary team is of paramount importance in any complex multi-modality treatment strategy decision. If induction chemotherapy alone is given preoperatively, post-operative radiotherapy is not standard treatment but may be an option based on critical evaluation of locoregional relapse risks [IV, C].

3.5.1. In patients with discrete N2 involvement by NSCLC identified preoperatively (IIIA), it is recommended that the treatment plan should be made with the input from a multidisciplinary team (Grade 1C).



## Acknowledgments

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