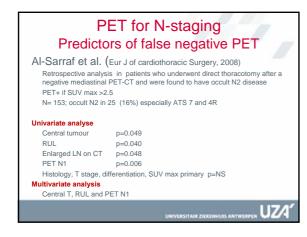


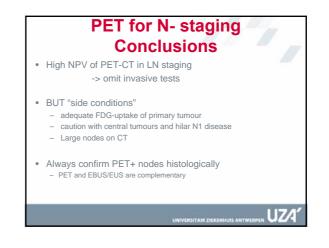
ORIGINAL ARTICLE					
Preoperative Staging of Lung with Combined PET-CT					
Barbara Frischer, Ph.D., Ulvä Lassen, Ph.D., Jann Mortena	Table 3. Distribution of Futile Thor	acotomies.*			
	Characteristic	PET-CT	Conventional Staging	Total	
1. Reduction number of thoracotomies 20/91 (22%) → 38/98 (39%)	Futile thoracotomy		number (percent)	
	No	39 (65)	35 (48)	74 (56)	
	Yes†	21 (35)	38 (52)	59 (44)	
	Total	60 (100)	73 (100)	133 (100)	
 Reduction number of futile thoracotomies 21/60 (35%) → 38/73 (52%) 	Reason that thoracotomy was considered futile				
	Exploratory thoracotomy	5 (24)	4 (11)	9 (15)	
	Benign lung lesion	0	3 (8)	3 (5)	
	Stage IV disease	3 (14)	0	3 (5)	
	Stage IIIB disease	4 (19)	8 (21)	12 (20)	
	Stage IIIA (N2) disease	5 (24)	6 (16)	11 (19)	
	Recurrence within 12 mo	3 (14)	13 (34)	16 (27)	
	Death within 12 mo	1 (5)	4 (11)	5 (8)	
	Total	21 (100)	38 (100)	59 (100)	

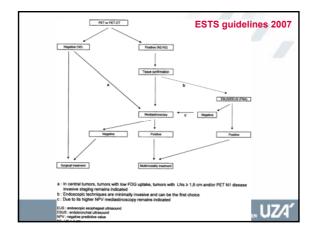
	npac	t of ir	nteg	N-staging grated PE7		
	of PET+	= visual (>	> medi	tergrated PET-CT (r astinal BG) TABLE 5. Analysis of opera	,	
	Standard PET (n = 210)	Integrated PET/CT (n = 125)	P value*		Standard PET (a = 210)	Integrated PET/CI (a = 126)
	(H = 1117)	(8 = 126) 85.7 (67.3-96.0)	.0299	Mediastinoscopy or	33 (16)	25 (20)
Sensitivity (%, 95% CI) Specificity (%, 95% CI) Pacifica prediction	94.3 (89.7-97.2)	80.6 (71.4-87.9)	.0005	mediastinotomy (No., %) Mediastinoscopy followed by	51 (24)	44 (35)
Specificity (%, 95% CI) Positive predictive value (%, 95% CI) Negative predictive		80.6 (71.4-87.9) 55.8 (39.9-70.9)	.0005 .2552 .3658	Mediastinoscopy followed by thoracotomy (No. %) Thoracotomy (No. %)	126 (60)	57 (45)
Specificity (%, 95% CI) Positive predictive value (%, 95% CI)	94.3 (89.7-97.2) 68.8 (50.0-83.9) 92.1 (87.2-95.6) 88.6 (87.2-95.6) sography; <i>CT</i> , cor	80.6 (71.4-87.9) 55.8 (39.9-70.9) 95.2 (88.1-98.7) 81.7 (88.1-98.7)	.2552 .3658 .0808	Mediastinoscopy followed by thoracotomy (No. %)	126 (60)	57 (45)

	PET fo	r N-Stag	ing	
Percentage RA positive avitized RA spectra for the second		J Cardio Thor Su		
o 🕂	.10-15	.16-20	.>20	
			s (mm) T-based lymph node size	
		UNIVERSITAIR	ZIEKENHUIS ANTWERPEN	JZA

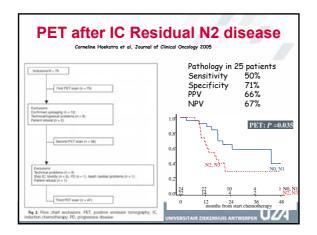
Table 2 Predicted positive and negative valu lymph nodes of different size catego and specificity of 78% for enlarged n	ries, assuming FDG-PET s	
Lymph node size category	NPV (%)	PPV (%)
CT 10–15 mm	95	62
CT 16-20 mm	81	90
CT >20 mm, with outlier	82	90
CT >20 mm, without outlier	80	90
NPV: negative predictive value; PPV	: positive predictive valu	ie.









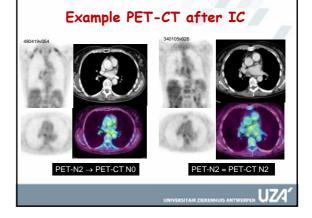


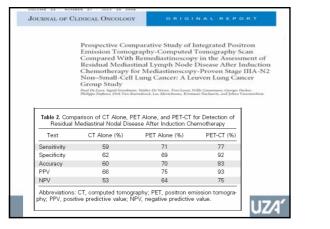
Study	Year	N	Stage	CTRT	Imaging	Sensitivity	Specificity
Vansteenkiste et al.	2001	31	IIIA-N2	0%	PET + CT (visual corr.)	71%	88%
Akhurst et al.	2002	56	I-III	29%	PET + CT (visual corr.)	67%	61%
Ryu et al.	2002	26	ш	100%	PET + CT (visual corr.)	58%	93%
Cerfolio et al.	2003	34	IB-IIIA	21%	PET + CT (visual corr.)	50%	99%
Hellwig et al.	2004	37	ш	70%	PET + CT (visual corr.)	50%	88%
Port et al.	2004	25	I-IIIA	0%	PET + CT (visual corr.)	20%	71%
Hoekstra et al.	2005	25	IIIA-N2	0%	PET + CT (visual corr.)	50%	71%
Cerfolio et al.	2006	93	IIIA-N2	100%	Integrated PET-CT	62%	88%
Pottgen et al.	2006	37	IIIA/B	100%	Integrated PET-CT	73%	89%
De Leyn et al.	2006	30	IIIA-N2	0%	Integrated PET-CT	77%	92%

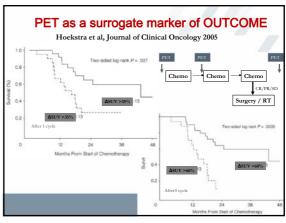
Mediastinal downstaging after IC • De Leyn et al, JCO 2006 – Prospective study

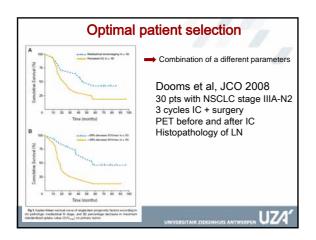
- 30 patients stage IIIA-N2 NSCLC
- Cisplatinum based IC
- PET-CT after IC prior to surgery
- Re mediastinoscopy
- Lymphadenectomy at surgery

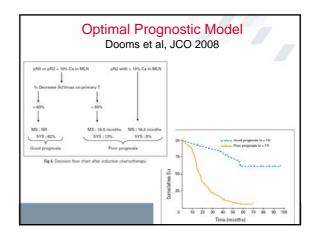
UZ/I











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