

Stadium I patienter – tidlig død mm.

DLCG årsmøde d. 22.11.2018

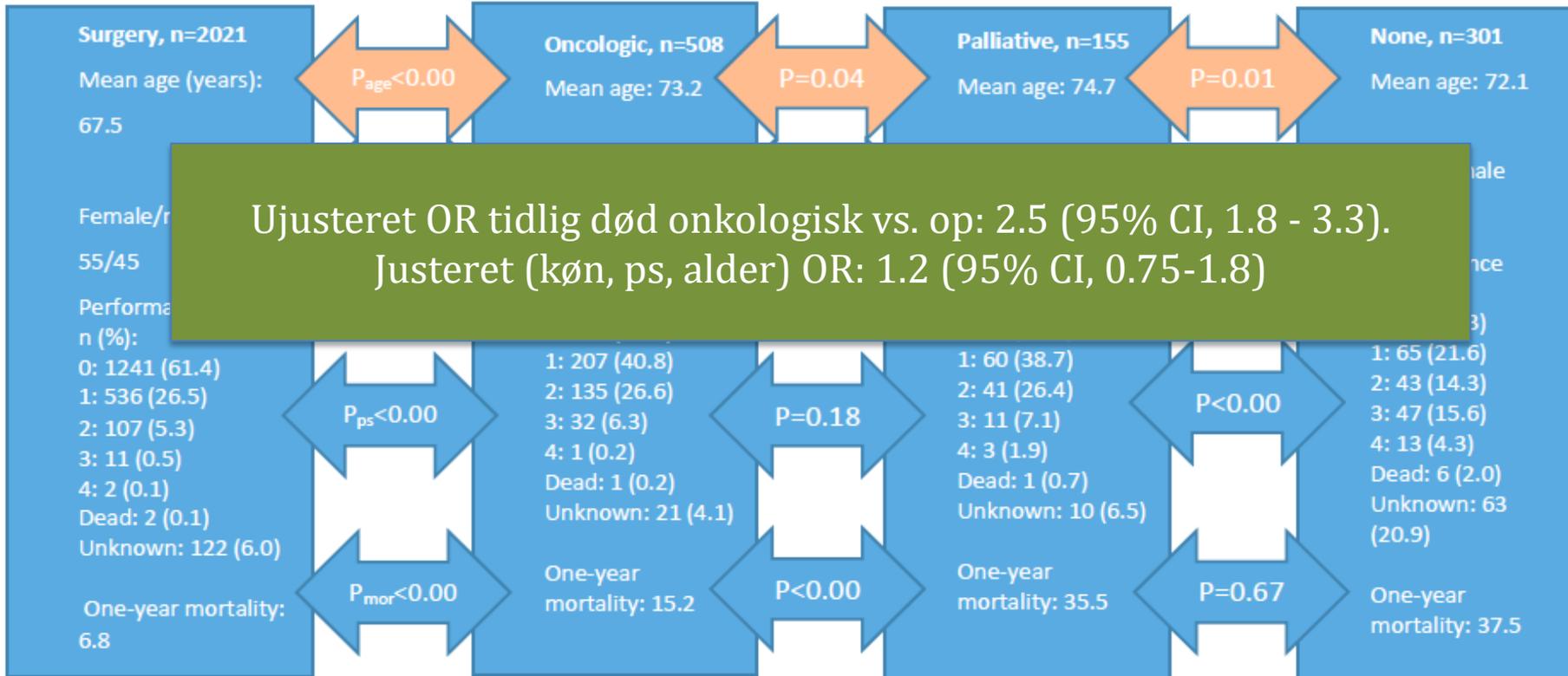
Rigshospitalet

Baggrund og metode

- Tidlig død projekt ved KB
- Registerbaseret studie og journal gennemgang
- Matchede case/kontrol studier
 - Tidlig død vs. overlevende
 - Behandlede vs. Ikke-behandlede
- Nordiske kræftretningslinjer

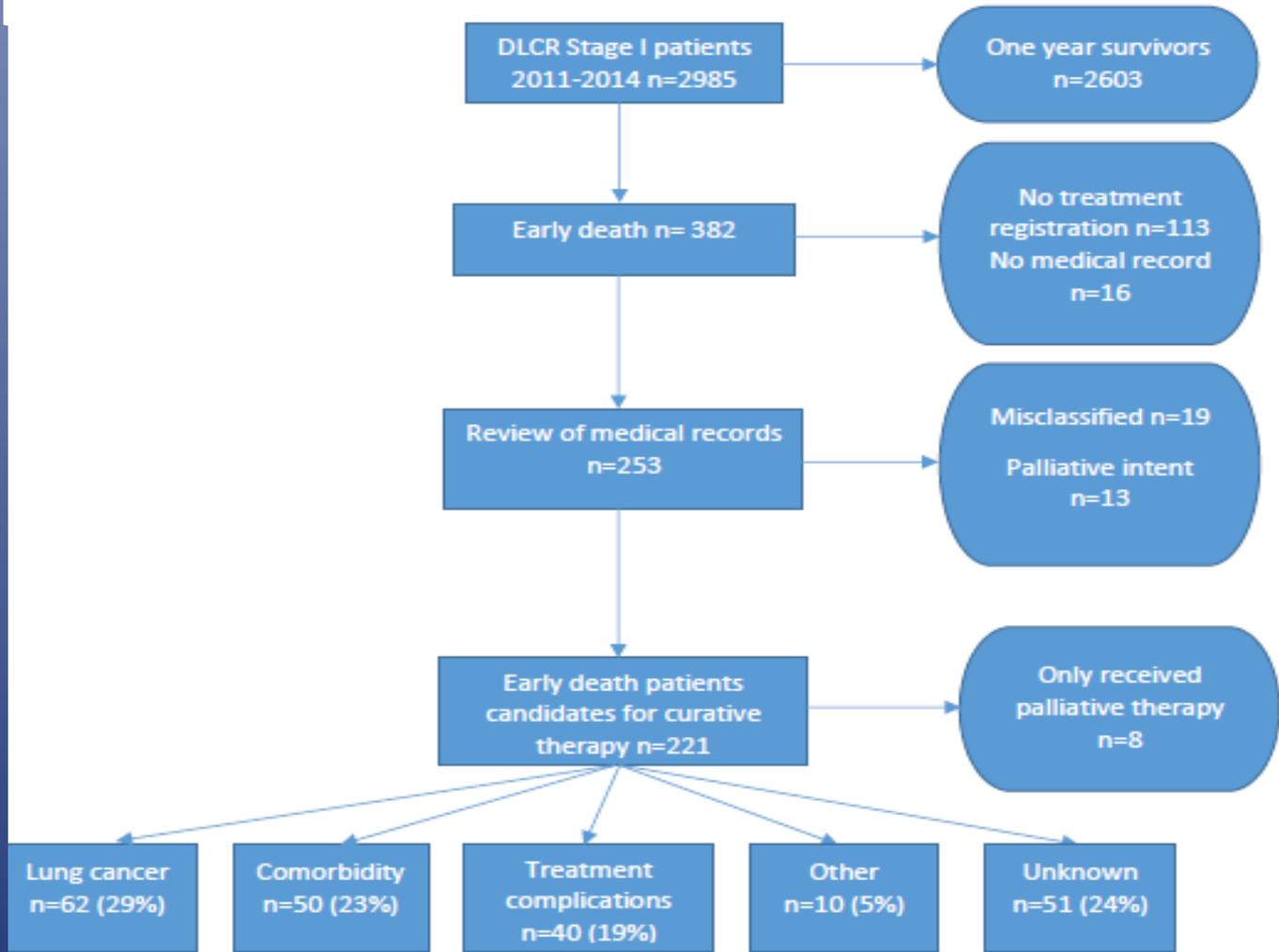
Lidt om kohorten

2985 ptt – 1 års mortalitet 13%



	Death within one year				DLCR cohort n=2966	P-value
	Total n=221	Surgery n=127 (57%)	Oncology n=86 (39%)	Palliative n=8 (4%)		
Age mean (range) in years	73.1 (45-89)	71.7 (45-86)	74.5 (53-89)	80.0 (72-86)	69.3 (17-96)	< 0.001
Gender female/male in %	43/57	37/63	55/45	25/75	55/45	0.004
TNM						
T1aNOMO – stage IA in %	34	34	37	13	40	0.134
T1bNOMO – stage IA in %	25	20	31	38	25	0.837
T2aNOMO – stage IB in %	40	46	31	50	36	0.180
Histology						
Adenocarcinoma in %	n=219 44	41	49	38	n=2841 52	0.026
Squamous-cell carcinoma in %	31	32	29	25	23	0.013
Non small-cell carcinoma in %	16	17	14	38	14	0.417
Small-cell carcinoma in %	3	2	5	0	2	0.142
Adenosquamous in %	1	2	0	0	1	0.873
Carcinoid in %	1	2	0	0	4	0.013
Large-cell neuroendocrine in %	2	3	0	0	1	0.187
Not otherwise specified (NOS) in %	2	1	4	0	1	0.629
Mixed type in %	< 1	1	0	0	< 1	0.887

Early death in Danish stage I lung cancer patients



	Surgery		P-value	Stereotactic body radiotherapy		P-value
	Early death (N=127) %	One year survivors (N=262) %		Early death (N=78) %	One year survivors (N=128) %	
PET/CT	98	98	0.77	99	100	0.20
Biopsy	79	84	0.17	96	93	0.34
Bronchoscopy	83	88	0.24	85	85	0.92
EBUS	64	71	0.17	73	66	0.26
EUS	11	15	0.30	18	13	0.36
Mediastinoscopy	4	2	0.36	1	1	0.72
Cerebral MRI	2	2	0.72	3	1	0.33
Cerebral CT	1	>1	0.35	3	5	0.42
No MSP	35	28	0.20	27	34	0.32
Diagnostic resection	29	19	0.03	*	*	*

Er der forskel i udredningen i DK?

	Biopsy (n=631)		EBUS (n=552)		EUS (n=552)		No MSP (n=552)	
Region	OR	CI 95%	OR	CI 95%	OR		OR	CI 95%
Capitol	1	Ref	1	Ref	1	Ref	1	Ref
Zealand	1.3	0.6-2.7	12.4	5.2-30.0	0.7	0.2-2.1	0.1	0.03-0.19
Southern	1.2	0.7-2.2	4.7	2.8-8.2	0.5	0.2-1.4	0.2	0.12-0.36
Middle	1.9	0.9-3.9	5.0	2.7-9.3	7.8	3.8-16.2	0.2	0.1-0.38
Northern	1.7	0.7-3.7	1.0	0.5-1.9	0.6	0.2-1.9	0.7	0.4-1.35

Resultater - Livsstil

Lifestyle factor	OR	95%CI
Never smoker	0.3	0.1-0.9
Smoking at diagnosis	1.1	0.7-1.5
Cigarette equivalents/day	1.0	0.99-1.01
Former smoker	0.9	0.7-1.3
High-risk alcohol intake	2.2	1.4-3.5
Low nutritional status	2.3	1.4-3.7
High nutritional status	1.0	0.7-1.5

OR_{adjust}: 2.2
(CI 95%: 1.3-3.7)

Surgery:
3.1 (CI 95%:
1.7-5.9)

Oncological
0.8 (CI 95%
0.8-1.8)

Christensen NL, Løkke A, Dalton SO, Christensen J, Rasmussen TR.
Smoking, alcohol, and nutritional status in relation to one-year mortality in Danish stage I lung cancer patients. Lung Cancer. 2018;124(May):40-44. doi:10.1016/j.lungcan.2018.07.025

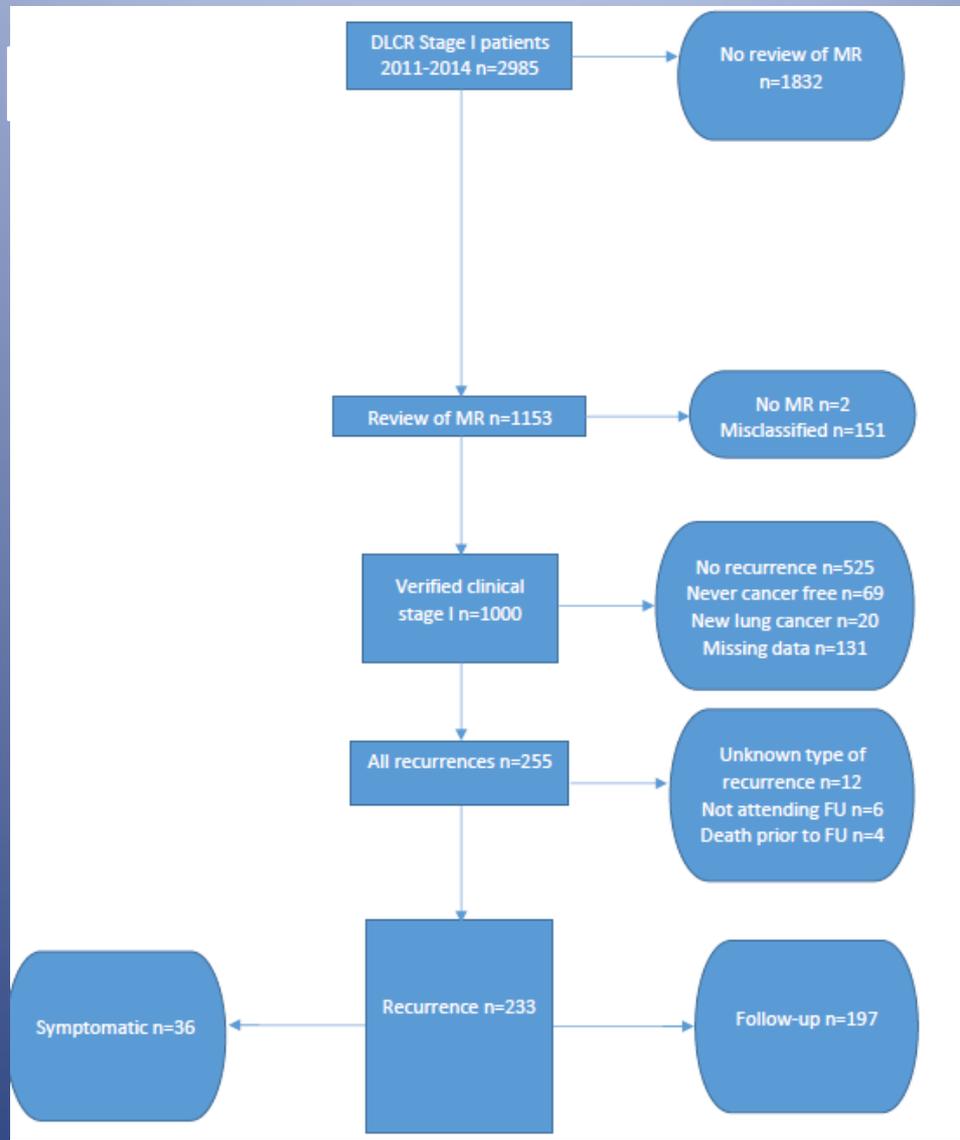
Rygning efter diagnosen

Smoking after diagnosis	Early death (n=221)		Survivor (n=410)		p-value
	n	%	n	%	
No	79	36	187	46	0.02
Yes	33	15	75	18	0.29
Quit after diagnosis	22	10	68	17	0.02
Unknown/irrelevant	87	39	80	20	<0.001
Cigarettes/day	14 *	N/A	10**	N/A	0.03
Pre vs. post	-1	N/A	-3	N/A	0.25



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Christensen NL, Dalton SO, Mellemgaard A, Christensen J, Kejs AMT, Rasmussen TR. Assessing the pattern of recurrence in Danish stage I lung cancer patients in relation to the follow-up program: are we failing to identify patients with cerebral recurrence? *Acta Oncol (Madr)*. 2018;0(0):1-5. doi:10.1080/0284186X.2018.14900284.

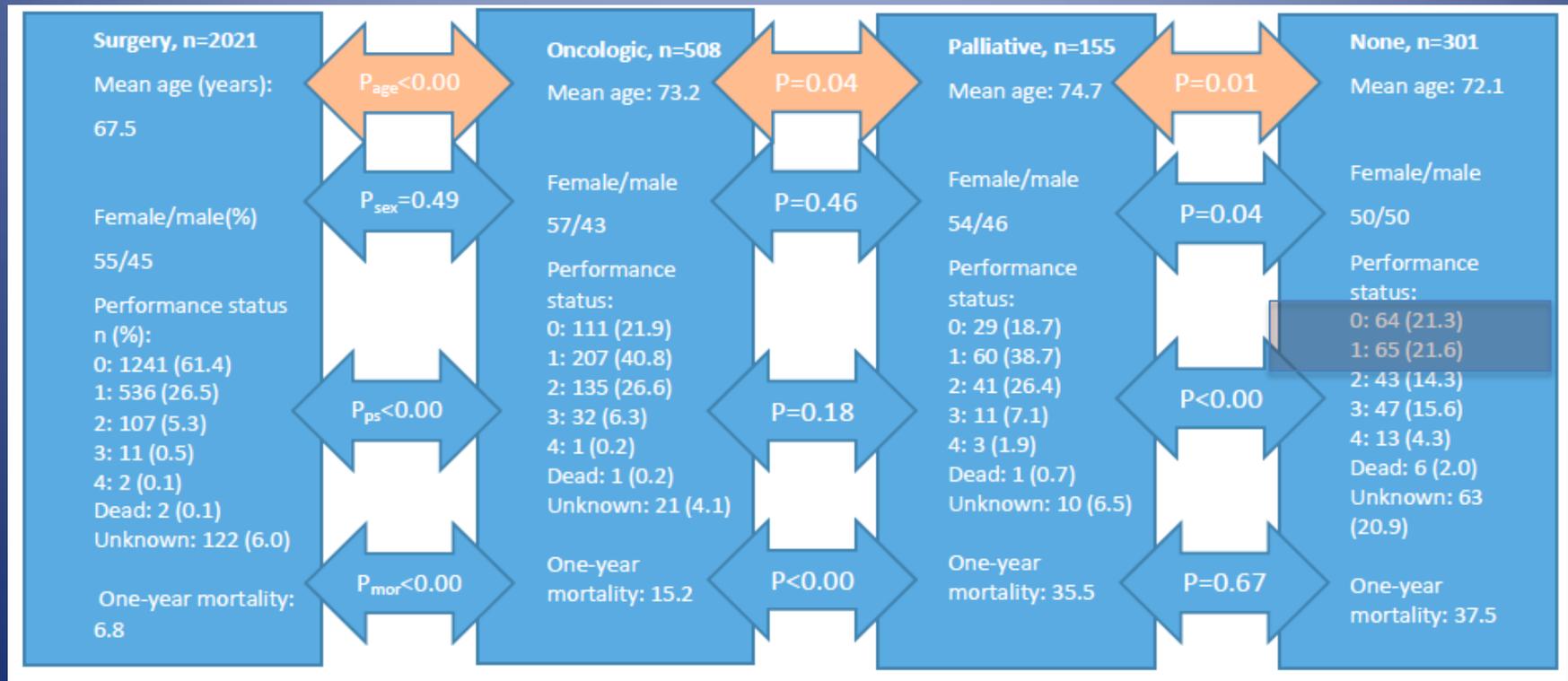
Resultater opfølgningen

Diagnostic tests in FU	Symptomatic group (n=36) %	FU group (n=197) %	
Cerebral MRI or CT	61	6.5	<0.00
FDG PET	28	72	<0.00
Biopsy	25	33	0.34
EBUS/EUS	3	30	<0.01
Other	28	12	0.01
Site of recurrence			
Local	3	15.5	0.04
Nodal	3	19	0.02
Distant (excl. CNS)	28	42	0.11
CNS-only	47	2	<0.01
Combined	16.5	18	0.87
Unknown	3	4	0.81
Treatment intent for recurrence			
Curative	28	34	0.46
Palliative	50	44	0.48

- Signifikant forskel i diagnostiske US og type af tilbagefald

Symptomatic recurrence and isolated brain metastases:
 OR 52.3 (CI 95%: 15.1-181.4)
 OR for symptomatic recurrence in Early phase: 2.5 (CI 95% 0.7-8.7)

De ikke-behandlede



De ikke-behandlede

De misklassificerede

Type of misclassification	No treatment group (n=86)	
	N	%
No cancer	11	13
Other type of cancer	9	10
Clinical stage	9	10
Surgery	29	34
Oncology	12	14
Radio frequency ablation	13	15
Microwave ablation	2	2
Argon beam	1	1

De faktisk ikke behandlede

Reason	N
Patient decision	10
Co-morbidity	16
Tumor location	1
Disease progress	4
Death	3
High PS	1
Unknown	1
Total	36

Lidt andre nyheder

- CCI tidlig død vs. overlever
 - 2.3 vs. 1.3 ($p < 0.01$)
 - CCI=0: 22% vs. 30%, $p = 0.04$)
 - Antal comorbiditeter 1.6 vs. 1 ($p = 0.006$)
- Depression blandt kvinder
 - 23 vs. 13%
 - Ujusteret OR: 2.0 (CI 95% 1.0-3.7)
 - Justeret OR: 1.7 (CI 95% 0.8 - 3.5)

Vejen til diagnosen

	Early death n=221	Survivor n=410	Univariate		Multivariate	
	N (%)	N (%)	OR	95% CI	OR	95% CI
Symptomatic	44 (20)	112 (27)	1	Ref	1	Ref
Incidental	144 (65)	231 (56)	1.6	1.1-2.4	1.4	0.9-2.1
SPN	23 (10)	48 (12)	1.2	0.7-2.3	1.0	0.5-2.0
Unknown	10 (5)	19 (5)	1.2	0.6-2.8	1.1	0.5-2.5

Anden cancer fem år inden diagnose: 22 vs. 14%
($p=0.01$). Færre symptomatiske og flere via SPN i denne
gruppe.