

# Appendix 1. Clinical and lung cancer characteristics of patients included in unforeseen N2 and survival analyses per diagnosis year (n=21,409)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	$\chi^2$	Trend	Spearman
Number of patients	1,434	1,442	1,536	1,481	1,593	1,610	1,725	1,681	1,783	1,694	1,827	1,779	1,824	-	-	-
Age, median	66	66	66	66	67	67	66	66	66	67	67	67	68	-	-	-
Male gender, %	67	63	64	61	63	62	60	57	58	57	56	54	54	-	↓	<.01
Clinical nodal stage, %																
cN0	86	82	82	82	81	84	84	84	83	83	82	82	83	<.01	-	.56
cN1	5	7	8	8	10	9	9	9	10	11	12	13	12		↑	.01
cN2	3	4	4	4	4	4	3	4	4	3	3	3	3		-	.09
cN3	0	0	1	0	0	0	1	0	0	0	0	0	1		-	.75
cNx	6	7	7	6	5	3	3	3	3	2	3	2	1		↓	<.01
Tumour location, %																
Right upper lobe	32	36	31	34	32	33	34	34	36	33	32	33	32	.13	-	.82
Right middle lobe	4	4	4	5	4	4	5	4	4	5	5	5	5		↑	.02
Right lower lobe	19	17	18	18	20	18	18	18	18	17	19	18	20		-	.55
Left upper lobe	30	27	30	28	27	27	28	29	28	30	28	27	27		-	.35
Left lower lobe	15	15	16	15	16	19	15	14	14	16	15	17	17		-	.54
Histopathology, %																
Adenocarcinoma	37	37	37	39	38	41	41	45	46	45	46	48	35	<.01	↑	.04
Squamous cell carcinoma	40	42	41	38	40	39	40	36	36	33	35	33	31		↓	<.01
NSCLC not further specified	4	5	5	5	5	5	5	8	7	11	9	8	19		↑	<.01
Neuro endocrine	2	2	2	2	2	2	2	3	3	3	2	3	2		-	.09
Large cell carcinoma	8	8	6	6	4	2	2	1	1	1	1	1	0		↓	<.01
Adenosquamous carcinoma	2	2	2	2	2	2	2	1	1	2	1	2	2		-	.25
Bronchoalveolar cell	6	6	7	8	9	9	7	5	5	6	5	6	11		-	.88
Mediastinal nodal staging, %																
No invasive staging	74	71	76	74	77	75	67	66	64	65	61	60	60	<.01	↓	<.01
Endosonography only	N/A	N/A	N/A	N/A	N/A	N/A	9	11	13	15	17	18	19		↑	<.01
Endosonography + mediastinoscopy	N/A	N/A	N/A	N/A	N/A	N/A	9	11	10	10	12	12	13		-	.01
Mediastinoscopy only	26	29	24	26	23	25	15	12	13	10	10	10	8		↓	<.01
Adjuvant therapy, %	22	25	25	29	32	33	35	32	28	29	28	25	27	-	-	.54

$\chi^2$ =Chi-squared test p-value; trend=↑=increasing trend; ↓=decreasing trend; - =stable trend; Spearman=Spearman's rank correlation coefficient p-value; cN=clinical nodal stage; N/A=not available;