Supplementary materials

Supplementary Table 1. List of PPCs and other PCs collected

PPCs	Other PCs
Nosocomial pneumonia	Postoperative myocardial infarction
Lobar or whole-lung atelectasis	Low cardiac output syndrome
Acute respiratory failure requiring oxygenation and or	New onset atrial fibrillation
intubation	Cardiac arrest or ventricular fibrillation
Prolonged air leak	Acute kidney injury
Pulmonary embolism	Stroke
Acute Respiratory Distress Syndrome (ARDS)	Gastrointestinal complications
Pneumothorax	Incision site infection
Bronchospasm requiring use of nebulizer therapy	Multiple system organ failure
Aspiration pneumonitis	Cerebral infarction
Acute pulmonary edema	Cerebral hemorrhage
Bronchopleural fistula	Hepatic injury
Bronchitis	Postoperative hemorrhage
Pleural effusion	Unstable angina
Purulent pleuritis	Sepsis
Respiratory infection	Shock
Chylothorax	Deliriumb
Empyema	Stress ulcer
Cough	Circulatory failure
Other, please specify ^a	Reoperation for bleeding
	Electrolyte disturbance
	Fever
	Internal jugular vein thrombosis
	Other, please specify ^a

PC: Postoperative complications, PPC: Postoperative pulmonary complications. ^aOther PCs or PPCs were determined by the treating physician and the Sponsor.

Parameter, N (%)	Total	Smokers	Quitters
	(N = 276)	(N = 213)	$(\mathbf{N}=63)$
Patients with PCs	38 (13.8%)	30 (14.1%)	8 (12.7%)
PCs, occurrence	48 (17.4%)	38 (17.8%)	10 (15.9%)
Patients with Major PCs	10 (3.6%)	7 (3.3%)	3 (4.8%)
Major PCs, occurrence	11 (4.0%)	8 (3.8%)	3 (4.8%)
Pleural effusion	2 (0.7%)	1 (0.5%)	1 (1.6%)
Pneumothorax	2 (0.7%)	1 (0.5%)	1 (1.6%)
Post procedural hemorrhage	2 (0.7%)	2 (0.9%)	0
Cerebral infarction	2 (0.7%)	2 (0.9%)	0
Atelectasis	1 (0.4%)	1 (0.5%)	0
Hyperkalemia	1 (0.4%)	0	1 (1.6%)
Post procedural myocardial	1 (0.4%)	1 (0.5%)	0
infarction		× ,	
Patients with Minor PCs	29 (10.5%)	23 (10.8%)	6 (9.5%)
Minor PCs, occurrence	37 (13.4%)	30 (14.1%)	7 (11.1%)
Cough	8 (2.9%)	6 (2.8%)	2 (3.2%)
Pneumonia	6 (2.2%)	5 (2.3%)	1 (1.6%)
Pyrexia	6 (2.2%)	5 (2.3%)	1 (1.6%)
Hypoalbuminemia	3 (1.1%)	2 (0.9%)	1 (1.6%)
Pleural effusion	2 (0.7%)	1 (0.5%)	1 (1.6%)
Asthma	1 (0.4%)	1 (0.5%)	0
Blood lactic acid increased	1 (0.4%)	1 (0.5%)	0
Chylothorax	1 (0.4%)	1 (0.5%)	0
Hypokalemia	1 (0.4%)	1 (0.5%)	0
Hypoproteinemia	1 (0.4%)	1 (0.5%)	0
Metabolic acidosis	1 (0.4%)	1 (0.5%)	0
Noncardiac chest pain	1 (0.4%)	1 (0.5%)	0
Pneumothorax	1 (0.4%)	1 (0.5%)	0
Pulmonary function test	1 (0.4%)	1 (0.5%)	0
decreased			
Respiratory alkalosis	1 (0.4%)	1 (0.5%)	0
Respiratory tract infection	1 (0.4%)	1 (0.5%)	0
Sputum discolored	1 (0.4%)	0	1 (1.6%)
Patients with PPCs	27 (9.8%)	20 (9.4%)	7 (11.1%)
PPCs, occurrence	29 (10.5%)	22 (10.3%)	7 (11.1%)
Patients with Major PPCs	6 (2.2%)	4 (1.9%)	2 (3.2%)
Major PPCs, occurrence	7 (2.5%)	5 (2.3%)	2 (3.2%)
Pleural effusion	2 (0.7%)	1 (0.5%)	1 (1.6%)
Pneumothorax	2 (0.7%)	1 (0.5%)	1 (1.6%)
Post procedural hemorrhage	2 (0.7%)	2 (0.9%)	0
Atelectasis	1 (0.4%)	1 (0.5%)	0
Patients with Minor PPCs	21 (7.6%)	16 (7.5%)	5 (7.9%)
Minor PPCs, occurrence	22 (8.0%)	17 (8.0%)	5 (7.9%)
Cough	8 (2.9%)	6 (2.8%)	2 (3.2%)
Pneumonia	6 (2.2%)	5 (2.3%)	1 (1.6%)
Pleural effusion	2 (0.7%)	1 (0.5%)	1 (1.6%)
Asthma	1 (0.4%)	1 (0.5%)	0
Chylothorax	1 (0.4%)	1 (0.5%)	0
Pneumothorax	1 (0.4%)	1 (0.5%)	0

Supplementary Table 2. List of PCs and PPCs reported

Parameter, N (%)	Total (N = 276)	Smokers (N = 213)	Quitters (N = 63)
Pulmonary function test decreased	1 (0.4%)	1 (0.5%)	0
Respiratory tract infection	1 (0.4%)	1 (0.5%)	0
Sputum discolored	1 (0.4%)	0	1 (1.6%)
Patients with other PCs	16 (5.8%)	13 (6.1%)	3 (4.8%)
Other PCs, occurrence	19 (6.9%)	16 (7.5%)	3 (4.8%)
Patients with Major Other PCs	4 (1.4%)	3 (1.4%)	1 (1.6%)
Major Other PCs, occurrence	4 (1.4%)	3 (1.4%)	1 (1.6%)
Cerebral infarction	2 (0.7%)	2 (0.9%)	0
Hyperkalaemia	1 (0.4%)	0	1 (1.6%)
Post procedural myocardial infarction	1 (0.4%)	1 (0.5%)	0
Patients with Minor Other PCs	12 (4.3%)	10 (4.7%)	2 (3.2%)
Minor Other PCs, occurrence	15 (5.4%)	13 (6.1%)	2 (3.2%)
Blood lactic acid increased	1 (0.4%)	1 (0.5%)	0
Hypoalbuminaemia	3 (1.1%)	2 (0.9%)	1 (1.6%)
Hypokalaemia	1 (0.4%)	1 (0.5%)	0
Hypoproteinaemia	1 (0.4%)	1 (0.5%)	0
Metabolic acidosis	1 (0.4%)	1 (0.5%)	0
Non-cardiac chest pain	1 (0.4%)	1 (0.5%)	0
Pyrexia	6 (2.2%)	5 (2.3%)	1 (1.6%)
Respiratory alkalosis	1 (0.4%)	1 (0.5%)	0

Percentages are based on the number of all patients within respective columns. PCs: postoperative complications, PPC: postoperative pulmonary complications.

Parameter, N (%)	Total	Smokers	Quitters
	(N = 276)	(N = 213)	$(\mathbf{N}=63)$
Month 1			
Ν	275	212	63
Patients with PCs	6 (2.2%)	4 (1.9%)	2 (3.2%)
PCs, occurrence	6 (2.2%)	4 (1.9%)	2 (3.2%)
Patients with Major PCs	1 (0.4%)	1 (0.5%)	0
Major PCs, occurrence	1 (0.4%)	1 (0.5%)	0
Pneumonia	1 (0.4%)	1 (0.5%)	0
Patients with Minor PCs	5 (1.8%)	3 (1.4%)	2 (3.2%)
Minor PCs, occurrence	5 (1.8%)	3 (1.4%)	2 (3.2%)
Pneumonia	2 (0.7%)	1 (0.5%)	1 (1.6%)
Bronchitis	1 (0.4%)	0	1 (1.6%)
Cough	1 (0.4%)	1 (0.5%)	0
Pleural effusion	1 (0.4%)	1 (0.5%)	0
Patients with PPCs	6 (2.2%)	4 (1.9%)	2 (3.2%)
PPCs, occurrence	6 (2.2%)	4 (1.9%)	2 (3.2%)
Patients with Major PPCs	1 (0.4%)	1 (0.5%)	0
Major PPCs, occurrence	1 (0.4%)	1 (0.5%)	0
Pneumonia	1 (0.4%)	1 (0.5%)	0
Patients with Minor PPCs	5 (1.8%)	3 (1.4%)	2 (3.2%)
Minor PPCs, occurrence	5 (1.8%)	3 (1.4%)	2 (3.2%)
Pneumonia	2 (0.7%)	1 (0.5%)	1 (1.6%)
Bronchitis	1 (0.4%)	0	1 (1.6%)
Cough	$\frac{1(0.4\%)}{1(0.4\%)}$	1 (0.5%)	0
Pleural effusion	1 (0.4%)	1 (0.5%)	0
Month 3	1 (0.470)	1 (0.370)	0
N	272	211	61
Patients with PCs	3 (1.1%)	2 (0.9%)	1 (1.6%)
PCs, occurrence	3 (1.1%)	2 (0.9%)	1 (1.6%)
Patients with Major PCs	0	0	0
Major PCs, occurrence	0	0	0
Patients with Minor PCs	3 (1.1%)	2 (0.9%)	1 (1.6%)
Minor PCs, occurrence	3 (1.1%)	2 (0.9%)	1 (1.6%)
Pleural effusion	1 (0.4%)	1 (0.5%)	0
Pneumothorax	1 (0.4%)	0	1 (1.6%)
Vomiting	1 (0.4%)	1 (0.5%)	0
Patients with PPCs	2 (0.7%)	1 (0.5%)	1 (1.6%)
PPCs, occurrence	2 (0.7%)	1 (0.5%)	1 (1.6%)
Patients with Major PPCs	0	0	0
Major PPCs, occurrence	0	0	0
Patients with Minor PPCs	2 (0.7%)	1 (0.5%)	1 (1.6%)
Minor PPCs, occurrence	2 (0.7%)	1 (0.5%)	1 (1.6%)
Pleural effusion	1 (0.4%)	1 (0.5%)	0
Pneumothorax	1 (0.4%)	0	1 (1.6%)
Month 6	I (0.7/0)	V	1 (1.070)
N	271	210	61
Patients with PCs	0	0	0
PCs , occurrence	0	0	0
Patients with Major PCs	0	0	0

Supplementary Table 3. Summary of PCs and PPCs among all patients at Month 1, Month 3, and Month 6

Parameter, N (%)	Total (N = 276)	Smokers (N = 213)	Quitters (N = 63)
Major PCs, occurrence	0	0	0
Patients with Minor PCs	0	0	0
Minor PCs, occurrence	0	0	0
Patients with PPCs	0	0	0
PPCs, occurrence	0	0	0
Patients with Major PPCs	0	0	0
Major PPCs, occurrence	0	0	0
Patients with Minor PPCs	0	0	0
Minor PPCs, occurrence	0	0	0

Percentages are based on the number of all patients within respective columns. PCs: postoperative complications, PPC: postoperative pulmonary complications.

Supplementary Table 4. Summary of postoperative complications and postoperative pulmonary complications by surgery type

Parameter, N (%)	Lobectomy (N = 162)	Segmentectomy or wedge resection (N = 93)	
Perioperative stage			
N	162	93	
Patients with PCs	27 (16.7%)	8 (8.6%)	
PCs, occurrence	34 (21.0%)	11 (11.8%)	
Patients with Major PCs	6 (3.7%)	2 (2.2%)	
Major PCs, occurrence	7 (4.3%)	2 (2.2%)	
Patients with Minor PCs	22 (13.6%)	6 (6.5%)	
Minor PCs, occurrence	27 (16.7%)	9 (9.7%)	
Patients with PPCs	20 (12.3%)	5 (5.4%)	
PPCs, occurrence	21 (13.0%)	6 (6.5%)	
Patients with Major PPCs	5 (3.1%)	0	
Major PPCs, occurrence	6 (3.7%)	0	
Patients with Minor PPCs	15 (9.3%)	5 (5.4%)	
Minor PPCs, occurrence	15 (9.3%)	6 (6.5%)	
Month 1			
Ν	161	93	
Patients with PCs	3 (1.9%)	3 (3.2%)	
PCs, occurrence	3 (1.9%)	3 (3.2%)	
Patients with Major PCs	1 (0.6%)	0	
Major PCs, occurrence	1 (0.6%)	0	
Patients with Minor PCs	2 (1.2%)	3 (3.2%)	
Minor PCs, occurrence	2 (1.2%)	3 (3.2%)	
Patients with PPCs	3 (1.9%)	3 (3.2%)	
PPCs, occurrence	3 (1.9%)	3 (3.2%)	
Patients with Major PPCs	1 (0.6%)	0	
Major PPCs, occurrence	1 (0.6%)	0	
Patients with Minor PPCs	2 (1.2%)	3 (3.2%)	
Minor PPCs, occurrence	2 (1.2%)	3 (3.2%)	
Month 3			
Ν	160	91	
Patients with PCs	3 (1.9%)	0	
PCs, occurrence	3 (1.9%)	0	
Patients with Major PCs	0	0	
Major PCs, occurrence	0	0	
Patients with Minor PCs	3 (1.9%)	0	
Minor PCs, occurrence	3 (1.9%)	0	
Patients with PPCs	2 (1.3%)	0	
PPCs, occurrence	2 (1.3%)	0	
Patients with Major PPCs	0	0	
Major PPCs, occurrence	0	0	
Patients with Minor PPCs	2 (1.3%)	0	
Minor PPCs, occurrence	2 (1.3%)	0	
Month 6			
N	160	91	
Patients with PCs	0	0	

Parameter, N (%)	Lobectomy (N = 162)	Segmentectomy resection (N = 93)	or	wedge
PCs, occurrence	0	0		
Patients with Major PCs	0	0		
Major PCs	0	0		
Patients with Minor PCs	0	0		
Minor PCs	0	0		
Patients with PPCs	0	0		
PPCs, occurrence	0	0		
Patients with Major PPCs	0	0		
Major PPCs, occurrence	0	0		
Patients with Minor PPCs	0	0		
Minor PPCs, occurrence	0	0		

Percentages are based on the number of all patients within respective columns. PCs: postoperative complications, PPC: postoperative pulmonary complications.

Supplementary Table 5. Summary of postoperative complications and postoperative

pulmonary complications by surgery type	

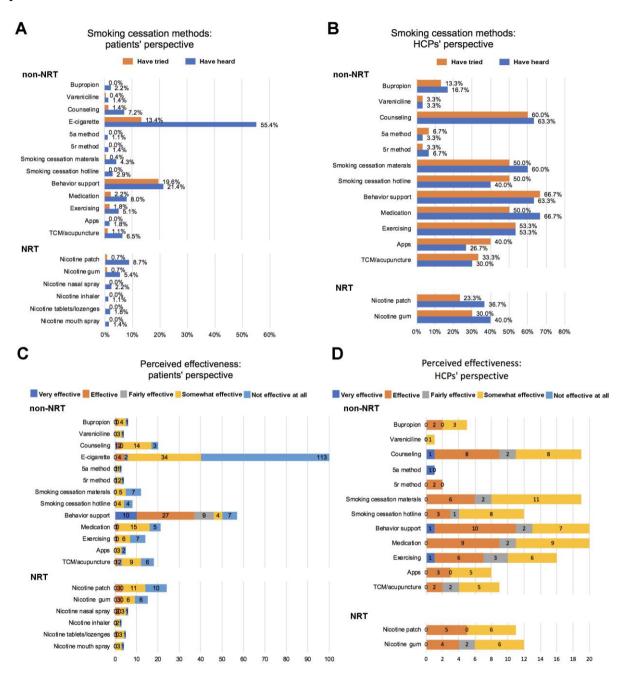
Parameter, N (%)	$FEV1\% \ge 80\%$ (N = 62)	FEV1% < 80% (N = 172)
Peri-operative Stage	· · · ·	
N	62	172
PCs, occurrence	15 (24.2%)	28 (16.3%)
Patients with PCs	12 (19.4%)	22 (12.8%)
Major PCs, occurrence	2 (3.2%)	8 (4.7%)
Patients with Major PCs	2 (3.2%)	7 (4.1%)
Atelectasis	0	1 (0.6%)
Cerebral infarction	0	2 (1.2%)
Hyperkalemia	1 (1.6%)	0
Pleural effusion	0	1 (0.6%)
Pneumothorax	0	2 (1.2%)
Post procedural hemorrhage	0	2 (1.2%)
Post procedural myocardial infarction	1 (1.6%)	0
Minor PCs, occurrence	13 (21.0%)	20 (11.6%)
Patients with Minor PCs	10 (16.1%)	15 (8.7%)
Asthma	0	1(0.6%)
Blood lactic acid increased	0	1 (0.6%)
Cough	2 (3.2%)	6 (3.5%)
Hypoalbuminemia	1 (1.6%)	2 (1.2%)
Hypokalemia	1 (1.6%)	$\frac{2(1.270)}{0}$
Hypoproteinemia	1 (1.6%)	0
Metabolic acidosis	0	1 (0.6%)
Non-cardiac chest pain	1 (1.6%)	0
Pleural effusion	0	1 (0.6%)
Pneumonia	4 (6.5%)	2 (1.2%)
Pneumothorax	1 (1.6%)	$\frac{2(1.270)}{0}$
Pulmonary function test decreased	0	1 (0.6%)
Pyrexia	2 (3.2%)	3 (1.7%)
	· - /	
Respiratory alkalosis	0	1(0.6%)
Respiratory tract infection	7 (11.3%)	<u>1 (0.6%)</u> 18 (10.5%)
PPCs, occurrence Patients with PPCs	7 (11.3%)	
		16 (9.3%)
Major PPCs, occurrence	0	6 (3.5%)
Patients with Major PPCs		5 (2.9%)
Atelectasis	0	1(0.6%)
Pleural effusion	0	1(0.6%)
Pneumothorax	0	2(1.2%)
Post procedural hemorrhage	0	2 (1.2%)
Minor PPCs, occurrence	7 (11.3%)	12 (7.0%)
Patients with Minor PPCs	7 (11.3%)	11 (6.4%)
Asthma	0	1 (0.6%)
Cough	2 (3.2%)	6 (3.5%)
Pleural effusion	0	1 (0.6%)
Pneumonia	4 (6.5%)	2 (1.2%)
Pneumothorax	1 (1.6%)	0
Pulmonary function test decreased	0	1 (0.6%)
Respiratory tract infection	0	1 (0.6%)
Other PCs, occurrence	8 (12.9%)	10 (5.8%)
Patients with Other PCs	7 (11.3%)	8 (4.7%)
Major Other PCs, occurrence	2 (3.2%)	2 (1.2%)
Patients with Major Other PCs	2 (3.2%)	2 (1.2%)
Cerebral infarction	0	2 (1.2%)
Hyperkalemia	1 (1.6%)	0
Post procedural myocardial infarction	1 (1.6%)	0
Minor Other PCs, occurrence		8 (4.7%)
	6 (9.7%)	
Patients with Minor Other PCs		
Patients with Minor Other PCs		6 (3.5%)
Patients with Minor Other PCs Blood lactic acid increased	5 (8.1%)	<u>6 (3.5%)</u> 1 (1.6%)
Patients with Minor Other PCs	5 (8.1%)	6 (3.5%)

Matabalia anitaria	0	
Metabolic acidosis Non-cardiac chest pain	0 1 (1.6%)	<u>1 (1.6%)</u> 0
Pyrexia	2 (3.2%)	3 (1.7%)
Respiratory alkalosis	0	1 (1.6%)
Month 1	0	1 (1.0%)
N	62	171
PCs (including other PCs), occurrence	1 (1.6%)	4 (2.3%)
Patients with PCs (including other PCs)	1 (1.6%)	4 (2.3%)
Major PCs occurrence	0	$\frac{-(2.376)}{0}$
Major PCs, occurrence Patients with Major PCs	0	0
Minor PCs, occurrence	1 1.6%)	4 (2.3%)
Minor PCs, occurrence Patients with Minor PCs	1 (1.6%)	4 (2.3%)
Bronchitis	0	1 (0.6%)
Cough	0	1 (0.6%)
Pleural effusion	0	1 (0.6%)
Pneumonia	1 (1.6%)	1 (0.6%)
PPCs (including other PPCs), occurrence	1 (1.6%)	4 (2.3%) 4 (2.3%)
PPCs (including other PPCs), occurrence Patients with PPCs (including other	1 (1.6%)	4 (2.3%)
PPCs)		
Major PPCs, occurrence	0	0
Patients with Major PPCs	0	0
Minor PPCs, occurrence	1 (1.6%)	4 (2.3%)
Patients with Minor PPCs	1 (1.6%)	4 (2.3%)
Bronchitis	0	1 (0.6%)
Cough	0	1 (0.6%)
Pleural effusion	0	1 (0.6%)
Pneumonia	1(1.6%)	1(0.6%)
PPCs (including other PPCs), occurrence Patients with PPCs (including other	$\frac{1(1.6\%)}{1(1.6\%)}$	4 (2.3%)
PPCs)	1 (1.6%)	4 (2.3%)
Major PPCs, occurrence Patients with Major PPCs	0	0
Patients with Major PPCs	0	0
Minor PPCs, occurrence Patients with Minor PPCs	$\frac{1(1.6\%)}{1(1.6\%)}$	4 (2.3%)
	1 (1.6%)	4 (2.3%)
Bronchitis	0	1(0.6%)
Cough Pleural effusion	0	1(0.6%)
Pneumonia	1 (1.6%)	$\frac{1\ (0.6\%)}{1\ (0.6\%)}$
Month 3	1 (1.0%)	1 (0.0%)
Nonth 5	62	169
PCs (including other PCs), occurrence	0	1 (0.6%)
Patients with PPCs (including other	0	1 (0.6%)
PPCs)	0	1 (0.070)
Major PPCs, occurrence	0	0
Patients with Major PPCs	Ő	ŏ
Minor PPCs, occurrence	0	1 (0.6%)
Patients with Minor PPCs	0	1 (0.6%)
Pleural effusion	0	1 (0.6%)
Month 6		· · · · · · · · · · · · · · · · · · ·
N	62	168
PCs (including other PCs), occurrence	0	0
Patients with PCs (including other PCs)	0	0
Major PCs, occurrence	0	0
Patients with Major PCs	0	0
Minor PCs, occurrence	0	0
Patients with Minor PCs	0	0
PPCs (including other PPCs), occurrence	0	0
Patients with PPCs (including other PPCs)	0	0
Major PPCs, occurrence	0	0
Patients with Major PPCs	0	0
Minor PPCs, occurrence Patients with Minor PPCs	0	0
Patients with Minor PPCs	0	0
Percentages are based on the number of all part		les une une a

Percentages are based on the number of all patients within respective columns. Peri-operative Stage is defined as 1 day prior to discharge or within 2 weeks after surgery, whichever occurs first. PCs: postoperative complications, PPC: postoperative pulmonary complications.

Supplementary Figure 1. NRT and non-NRT smoking cessation methods heard or tried in the

patients and HCPs



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