Table 1. Study characteristics – Module Aanvullende diagnostiek

Study	Design	Surgery type	Patients: N, age, sex	Abnormal spirometry	PPC definition	Risk of bias ¹
Kanat,	Prospective	Upper	60 consecutive patients (29	Abnormal spirometric test; abnormal functional	PPCs within 48	High for
2007	cohort	abdominal	men, 31 women) with a	patterns were categorized as (i) obstructive, when	hours after surgery:	reference
		surgery	mean age of 55 (SD 16)	FEV1/FVC ratio was below the normal range; (ii)	atelectasis,	standard
			years	restrictive, when TLC was less than the lower limit	pulmonary emboli,	
				of normal; and (iii) combined, when both	bronchitis,	
				abnormalities were concomitantly present in the	pneumonia,	
				same patient.	pneumonitis and	
					acute respiratory	
					failure	
Jeong,	Prospective	Gastric cancer	582 consecutive patients of	Pulmonary function airway limitations were	Pulmonary	High for
2013	cohort	surgery	which 538 were included;	classified as normal (FEV1/FVC \geq 0.7), mild	complications, not	reference
			368 males and 170 females,	(FEV1/FVC $<$ 0.7, FEV1 \ge 80% predicted),	explicitly defined	standard
			mean age 61.8 (SD 11.6)	moderate (FEV1/FVC < 0.7, 50% ≤ FEV1 < 80%		
			years	predicted), severe (FEV1/FVC < 0.7, 30% \le FEV1 <		
				50%), or very severe (FEV1/FVC < 0.7, FEV1 <		
				30% predicted), according to the spirometric		
				classification of COPD.		
Huh,	Retro-	Laparoscopyassi	Elderly patients (60+): 213	Patients were spirometrically classified as normal or	Atelectasis;	High for
2013	spective	sted	patients (124 male, 89	abnormal according to the following cut-off points	pulmonary	patient
	cohort	gastrectomy	female), mean age 67.0 (SD	commonly accepted in clinical practice: normal,	embolism;	selection and
			6.3) years	≥80% of predicted values for FVC and FEV1, and	bronchitis;	reference
				≥70% for FEV1/FVC; abnormal, <80% of predicted	pneumonia; and/or	standard,
				values for FVC and FEV1, and <70% for FEV1/FVC.	acute respiratory	unclear for
					failure	flow and
						timing
Clavellina	Retro-	Bariatric surgery	Obese patients: 602	Results were interpreted	Respiratory	High for
-Gaytán,	spective		patients, 256 male (42.5 %)	based on GOLD and ATS criteria; COPD was	postoperative	reference
2015	cohort		and 346 female (57.5 %),	diagnosed in the presence of FEV1/FVC <70 % of	complications: O2	standard,
			with a mean age of 40.2 (SD	the predicted value. It was considered mild when	desaturation,	unclear for
			11.6) years	FEV1 was ≥80 % of the predicted value, moderate	symptomatic	flow and
				when FEV1 was between 70 and 79 %, and severe	atelectasis,	timing
				when FEV1 was between 30 and 49%. A restrictive	productive cough,	
				pattern was suggested in the presence of a FVC	dyspnea,	
				<70% of the predicted value with a normal	pneumonia,	

				FEV1/FVC, and a mixed pattern was diagnosed	pulmonary	
				when there was a combination of the two.	thromboembolism	
Kim, 2016	Retro-	Abdominal	387 patients ² of which 258	COPD patients were classified according to the	PPCs included new-	High for
	spective	surgery	(66.7%) were male, median	severity defined by spirometry findings on the basis	onset pneumonia,	patient
	cohort		age 69 years (range, 40–90	of GOLD guidelines. Mild-to-moderate COPD was	pulmonary edema,	selection and
			years)	defined as FEV1 ≥50% of predicted value, and	pulmonary	reference
				severe-to-very severe COPD was defined as FEV1	thromboembolism,	standard,
				<50% of predicted value. Among patients with	atelectasis, and	unclear for
				FEV1/FVC ≥0.7, those with FVC <80% of predicted	acute exacerbation	index test
				value were found to have pulmonary disease with	of COPD after	
				restrictive pattern, and those with FVC ≥80% of	surgery.	
				predicted value were defined as control subjects.		

ATS: American Thoracic Society; ERS: European Respiratory Society; GOLD: Global Initiative for Chronic Obstructive Lung Disease.

¹ Dankert (2022) assessed risk of bias by means of QUADAS- 2

² Patients who met the following criteria were included in the present study: preoperative pulmonology consultation because of comorbidity, old age, or abnormal lung function; abdominal surgery under general anesthesia; and age ≥ 40 years