

Table S1 Additional baseline characteristics of included studies

Study (year)	Mean BMI (kg/m <sup>2</sup> )		FEV1 (% predicted)		Surgical procedures		Extent of resection	
	ERAS	Con.	ERAS	Con.	ERAS	Con.	ERAS	Con.
Dong 2017	26.8 [18.5-30.0]	25.6 [18.7-29.8]	2.9 [2.5-3.9] <sup>a</sup>	2.8 [2.5-3.7] <sup>a</sup>	OPEN	OPEN	Pne	Pne
Muehling 2008	NR	NR	2.05 (0.68-4.5) <sup>a</sup>	2.4 (1.4-2.8) <sup>a</sup>	NR	NR	Lob =20; Pne =3; Sle =1; Wed =6	Lob =20; Pne =1; Sle =2; Wed =5
Boujibar 2018	26.6 [23.7-30.4]	25.0 [22.5-30]	61 [54-67]	61 [58-71]	V/RATS	V/RATS	Lob	Lob
Brunelli 2017	27.3 [24-30]	27 [24-30]	89.2 [74-105]	89.2 [73-106]	VATS	VATS	Lob; Seg	Lob; Seg
Chen 2020	NR	NR	NR	NR	NR	NR	Lob	Lob
Gao 2015	NR	NR	NR	NR	OPEN =29; VATS =42	OPEN =32; VATS =39	Lob	Lob
Glogowaska 2017	NR	NR	90 [80-104]	95 [83-101]	NR	NR	Lob =61; Wed =147 Pne =7	Lob =46; Wed =136 Pne =5
Gonzalez 2018	24.9 (median)	23.5 (median)	92±18	81±20	VATS	VATS	Lob =32; Seg =18	Lob =30; Seg =20
Haro,G 2019	NR	NR	91 [80-107]	86 [72-100]	OPEN =47; V/RATS =79	OPEN =102; V/RATS =67	Lob =62; Sublob =64	Lob =81; Sublob =88
Huang 2018	NR	NR	94.09±10.09	92.02±16.00	VATS	VATS	Lob; Wed	Lob; Wed
Khandhar 2018	NR	NR	NR	NR	VATS	VATS	Lob	Lob
Li,M 2019	NR	NR	98.25±11.89	97.89±11.44	VATS	VATS	NR	NR
Lv,H 2019	NR	NR	NR	NR	NR	NR	NR	NR
Madani 2015	27±6	27±5	87±24	92±22	OPEN	OPEN	Lob	Lob
Maruyama 2006	NR	NR	NR	NR	VATS	VATS	Lob =64; Seg+Wed =46; Pne+Bilob =3	Lob =58; Seg+Wed =46; Pne+Bilob =1
Numan RC 2012	25 [22-27]	26 [23-28]	95 [82-104]	92 [77-101]	OPEN =50; VATS =25	OPEN =79; VATS =15	Lob+Seg =34; Wed =31; Other =10	Lob+Seg =42; Wed =38; Other =14
Rice,D 2020	NR	NR	NR	NR	OPEN =73; V/RATS =50	OPEN =73; V/RATS =50	Wed+Seg =46; Lob =69; Pne+Sle =8	Wed+Segm:46; Lob =69; Pne+Sle =8
Salati 2012	26.3±4.8	26.5±3.8	84.6±18.5	85.7±19	NR	NR	Lob	Lob
Shiono 2019	22.8 [20.4-24.5]	22.6 [20.9-25.]	74 [67.5-78.7]	73.8 [68-80.5]	OPEN	OPEN	Lob =94; Seg =32	Lob =100; Seg =26
Tahiri 2020	26.9±5.9	27.5±5.6	92.9±18.6	86.8±22	VATS	VATS	Lob	Lob
Van Haren 2018	NR	NR	86 [60-112]	87 [62-112]	OPEN =166; V/RATS =176	OPEN =1095; V/RATS =520	Lob =239; Pne =15; Sle =14; Wed =60; Seg =32	Lob =1202; Pne =91; Sle =81; Wed =237; Seg =125

[ ] = interquartile range; ( ) = range; mean ± SD; <sup>a</sup>: Not report FEV1 (% predicted) but FEV1 values. NR, Not Reported; ERAS, Enhanced Recovery After Surgery; Con., Control; BMI, Body Mass Index; VATS, Video-assisted Thoracoscopic Surgery; RATS, Robotic-assisted Thoracic Surgery; Pne, Pneumonectomy; Lob, Lobectomy; Bilob, Bilobectomy; Sle, Sleeve resection; Wed, Wedge resection; Seg, Segmentectomy