

First author	Year published	Years covered	Operation	Mortality (%)	Morbidity (%)	Morbidity details
Boddeart	2015	1984 - 2011	Open thoracic surgery (71%) VATS (29%)	0%	10%	Pneumonia, transient O2 dependence, AF, prolonged mechanical ventilation, prolonged pneumothorax/air leak,
Cardillo	2009	1990 - 2008	VATS 69/110 (63%), (23% converted) Thoracotomy 41/110 (37%)	0.9%	10.9%	AF, pleural effusion, prolonged air leak
Chu	2012	1998 - 2010	Open Thoracotomy (61.5%) Simple thorascopic surgery (23.1%) VATS (15.4%)	0%	0%	
Enon	2012	1985 - 2009	Thoracotomy (100%) – benign only VATS 20/42 (48%)	0%	0%	
Franzen	2014	1992 - 2012	Thoracotomy 22/42 (52%) VATS 9/39 (23%)	0%	16.7%	Prolonged air leak, infection, bleeding, intercostal neuralgia
Guo	2011	2004 - 2008	Thoracotomy 30/39 (77%) Thoracotomy (81%), Sternotomy (3.6%) VATS (14%),	0%	15.4%	Pleural effusion, pulmonary infection
Harrison–Phipps	2009	1972 - 2002	Transabdominal approach (1.2%)	3.6%	11.8%	AF, pleural effusion, bleeding, bleeding requiring re-operation, pneumonia, post-op ileus
Lahon	2012	1980 - 2010	Thoracotomy (88%) VATS (71.4%), VATS + small thoracotomy (19%)	0.6%	5.7%	PE death, ARDS, TIA, haemothorax, DVT, delerium tremens
Liu	2010	2000 - 2008	Thoracotomy + VATS (9.5%)	0%	0%	
Rena	2000	1984 - 2000	Thoracotomy (95.2%) VATS (4.8%) Thoracotomy (76.5%) VATS (20.6%)	0%	0%	
Santos	2005	1990 - 2003	Median sternotomy (2.9%) Thoracotomy (68.2%), VATS (22.7%)	0%	2.9%	Pleural effusion
Schmid	2015	2002 - 2014	Sternotomy (9.1%) Thoracotomy (73.2%)	0%	N/A	
Tan	2018	2003 - 2015	VATS (26.8%) Thoracotomy (69%) VATS (24%)	0%	9%	
Tapias	2012	1977 - 2010	Other (6%)	0%	12%	Atelectasis (7%), haematuria, pulmonary oedema and postoperative bleeding requiring re-exploration (2%) each
Vejvodova	2017	2000 - 2015	VATS (15%) Thoracotomy (85%)	0%	0%	