

Summary of the electronic literatures search

PubMed search strategy

Searches	Search details	Items found
#1	Search ((bronchopleural[All Fields] AND ("fistula"[MeSH Terms] OR "fistula"[All Fields])) OR ("bronchial fistula"[MeSH Terms] OR ("bronchial"[All Fields] AND "fistula"[All Fields]) OR "bronchial fistula"[All Fields])) AND ("risk factors"[MeSH Terms] OR ("risk"[All Fields] AND "factors"[All Fields]) OR "risk factors"[All Fields] OR ("risk"[All Fields] AND "factor"[All Fields]) OR "risk factor"[All Fields]) AND ("1990/01/01"[PDAT] : "2015/07/23"[PDAT])	208
#2	Search ((bronchopleural[All Fields] AND ("fistula"[MeSH Terms] OR "fistula"[All Fields])) OR ("bronchial fistula"[MeSH Terms] OR ("bronchial"[All Fields] AND "fistula"[All Fields]) OR "bronchial fistula"[All Fields])) AND ("epidemiology"[Subheading] OR "epidemiology"[All Fields] OR "incidence"[All Fields] OR "incidence"[MeSH Terms]) AND ("1990/01/01"[PDAT] : "2015/07/23"[PDAT])	467
#3	Search ((bronchopleural[All Fields] AND ("fistula"[MeSH Terms] OR "fistula"[All Fields])) OR ("bronchial fistula"[MeSH Terms] OR ("bronchial"[All Fields] AND "fistula"[All Fields]) OR "bronchial fistula"[All Fields])) AND "causality"[MeSH Terms] AND ("1990/01/01"[PDAT] : "2015/07/23"[PDAT])	128
#4	Search ((((((("neoplasm, residual"[MeSH Terms] OR ("neoplasm"[All Fields] AND "residual"[All Fields]) OR "residual neoplasm"[All Fields] OR ("residual"[All Fields] AND "cancer"[All Fields]) OR "residual cancer"[All Fields]) OR (residual[All Fields] AND ("carcinoma"[MeSH Terms] OR "carcinoma"[All Fields]))) OR ("neoplasm, residual"[MeSH Terms] OR ("neoplasm"[All Fields] AND "residual"[All Fields]) OR "residual neoplasm"[All Fields] OR ("residual"[All Fields] AND "disease"[All Fields]) OR "residual disease"[All Fields]) OR ("residual tumour"[All Fields] OR "neoplasm, residual"[MeSH Terms] OR ("neoplasm"[All Fields] AND "residual"[All Fields]) OR "residual neoplasm"[All Fields] OR ("residual"[All Fields] AND "tumor"[All Fields]) OR "residual tumor"[All Fields])) OR (incomplete[All Fields] AND resection[All Fields])) OR (R1[All Fields] AND resection[All Fields])) AND (bronchopleural[All Fields] AND ("fistula"[MeSH Terms] OR "fistula"[All Fields])) AND ("1990/01/01"[PDAT] : "2015/07/23"[PDAT])	55
#5	Search ((((((("neoplasm, residual"[MeSH Terms] OR ("neoplasm"[All Fields] AND "residual"[All Fields]) OR "residual neoplasm"[All Fields] OR ("residual"[All Fields] AND "cancer"[All Fields]) OR "residual cancer"[All Fields]) OR (residual[All Fields] AND ("carcinoma"[MeSH Terms] OR "carcinoma"[All Fields]))) OR ("neoplasm, residual"[MeSH Terms] OR ("neoplasm"[All Fields] AND "residual"[All Fields]) OR "residual neoplasm"[All Fields] OR ("residual"[All Fields] AND "disease"[All Fields]) OR "residual disease"[All Fields]) OR ("residual tumour"[All Fields] OR "neoplasm, residual"[MeSH Terms] OR ("neoplasm"[All Fields] AND "residual"[All Fields]) OR "residual neoplasm"[All Fields] OR ("residual"[All Fields] AND "tumor"[All Fields]) OR "residual tumor"[All Fields])) OR (incomplete[All Fields] AND resection[All Fields])) OR (R1[All Fields] AND resection[All Fields])) AND ("bronchial fistula"[MeSH Terms] OR ("bronchial"[All Fields] AND "fistula"[All Fields]) OR "bronchial fistula"[All Fields])) AND ("1990/01/01"[PDAT] : "2015/07/23"[PDAT])	63

EMBASE (via Ovid interface) search strategy

Search strings	#	Searches	Items found
1	#1	Search ((bronchopleural fistula or bronchial fistula) and risk factor).af.	218
	#2	limit 1 to yr="1990 -2015"	215
2	#3	Search ((bronchopleural fistula or bronchial fistula) and incidence).af.	316
	#4	limit 3 to yr="1990 - 2015"	283
3	#5	Search ((bronchopleural fistula or bronchial fistula) and etiology).af.	117
	#6	limit 5 to yr="1990 - 2015"	66
4	#7	Search ((residual cancer or residual carcinoma or residual tumor or residual disease or incomplete resection or R1 resection) and bronchopleural fistula).af.	30
	#8	limit 7 to yr="1990 - 2015"	27
5	#9	Search ((residual cancer or residual carcinoma or residual tumor or residual disease or incomplete resection or R1 resection) and bronchial fistula).af.	2
	#10	limit 9 to yr="1990 - 2015"	2

Table S1: Summary of the 2 excluded studies after lastly filtration

No.	Authors (year)	Nation	Study design	No. samples	Reasons for exclusion
1	Kawaguchi et al (2008)[23]	Japan	ROS	74	All cohorts of patients have the presence of RDBS
2	Ross et al (2012)[24]	USA	ROS	41	No extractable demographic details of BPF formation

ROS: retrospective observational study; RDBS: residual disease at the bronchial stump; BPF:

bronchopleural fistula.