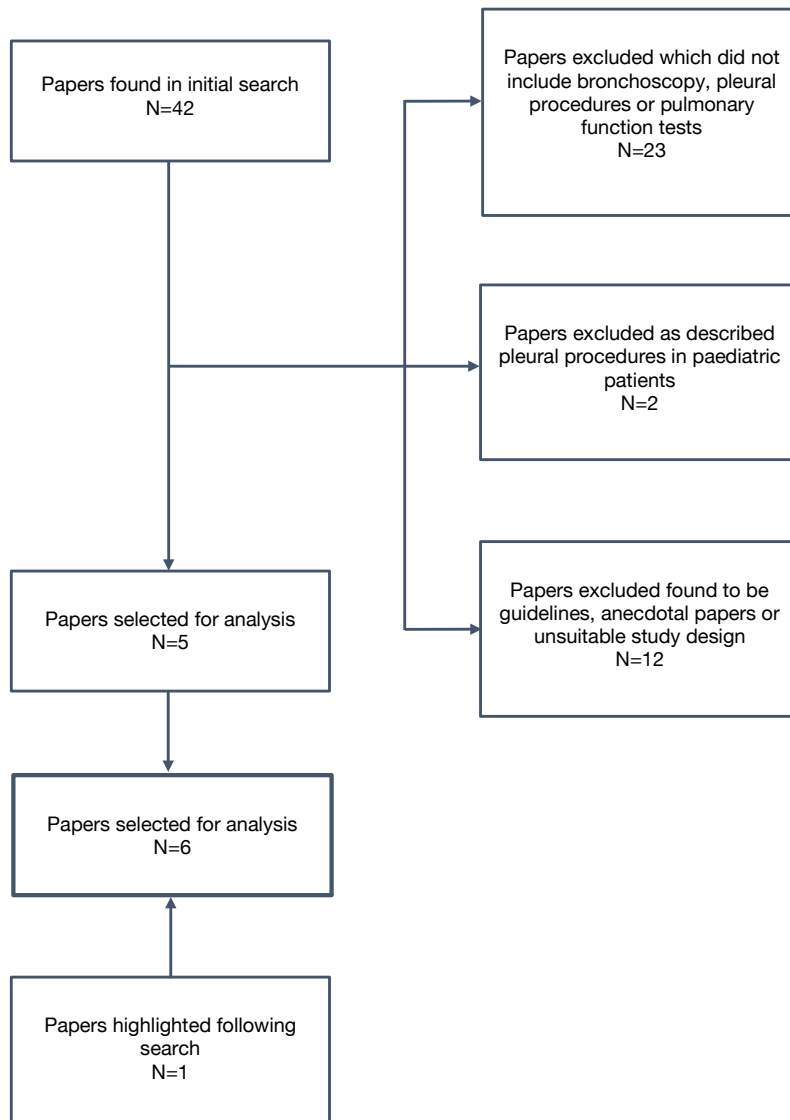


## Strategy 981809

#	Database	Search term	Results
1	EMBASE	("aerosol generating" OR bronchoscopy OR "pleural procedure*" OR "pulmonary function test*" OR "lung function test*"),ti,ab	62278
2	EMBASE	("severe acute respiratory syndrome" OR "covid 19" OR "SARS-COV-2" OR "n-Cov-19" OR "SARS" OR "MERS" OR "Coronavirus 2019").ti,ab	107284
3	EMBASE	(1 AND 2)	633
4	EMBASE	(transmission).ti,ab	423664
5	EMBASE	(3 AND 4)	233
6	EMBASE	(rate* OR risk).ti,ab	6522659
7	EMBASE	(5 AND 6)	189
8	CINAHL	("aerosol generating" OR bronchoscopy OR "pleural procedure*" OR "pulmonary function test*" OR "lung function test*"),ti,ab	7583
9	CINAHL	("severe acute respiratory syndrome" OR "covid 19" OR "SARS-COV-2" OR "n-Cov-19" OR "SARS" OR "MERS" OR "Coronavirus 2019").ti,ab	9065
10	CINAHL	(8 AND 9)	117
11	CINAHL	(transmission).ti,ab	40543
12	CINAHL	(10 AND 11)	61
13	CINAHL	(rate* OR risk).ti,ab	1159325
14	CINAHL	(12 AND 13)	53
15	EMCARE	("aerosol generating" OR bronchoscopy OR "pleural procedure*" OR "pulmonary function test*" OR "lung function test*"),ti,ab	9710
16	EMCARE	("severe acute respiratory syndrome" OR "covid 19" OR "SARS-COV-2" OR "n-Cov-19" OR "SARS" OR "MERS" OR "Coronavirus 2019").ti,ab	30035
17	EMCARE	(15 AND 16)	202
18	EMCARE	(transmission).ti,ab	70043
19	EMCARE	(17 AND 18)	82

20	EMCARE	(rate* OR risk).ti,ab	1464647
21	EMCARE	(19 AND 20)	67
22	Medline	("aerosol generating" OR bronchoscopy OR "pleural procedure" OR "pulmonary function test*" OR "lung function test*").ti,ab	35404
23	Medline	("severe acute respiratory syndrome" OR "covid 19" OR "SARS- COV-2" OR "n-Cov-19" OR "SARS" OR "MERS" OR "Coronavirus 2019").ti,ab	107905
24	Medline	(22 AND 23)	576
25	Medline	(transmission).ti,ab	377234
26	Medline	(24 AND 25)	227
27	Medline	(rate* OR risk).ti,ab	4679716
28	Medline	(26 AND 27)	183
29	PubMed	("aerosol generating" OR bronchoscopy OR "pleural procedure" OR "pulmonary function test*" OR "lung function test*").ti,ab	39425
30	PubMed	("severe acute respiratory syndrome" OR "covid 19" OR "SARS- COV-2" OR "n-Cov-19" OR "SARS" OR "MERS" OR "Coronavirus 2019").ti,ab	115328
31	PubMed	(29 AND 30)	652
32	PubMed	(transmission).ti,ab	547538
33	PubMed	(31 AND 32)	362
34	PubMed	(rate* OR risk).ti,ab	5353070
35	PubMed	(33 AND 34)	255

Figure S1 Search strategy.



**Figure S2** Literature inclusion methodology.

**Table S1** summary of studies selected

Study	Study design	Aim	Population
Doggett <i>et al.</i> (15)	Observational study	Characterise the number and size of aerosols produced during tracheal intubation and bronchoscopy	16 animal studies and 49 human procedures
Chang <i>et al.</i> (16)	Retrospective review	Measure patient and staff safety during bronchoscopy of intubated patients	241 bronchoscopies performed on 107 patients by ten clinicians
Duffy <i>et al.</i> (17)	Observational study	Determine whether bubbling chest drain is aerosol generating	N/A
Raboud <i>et al.</i> (18)	Retrospective cohort	Transmission of SARS to HCPs from intubated patients	624 in total; ten participated during bronchoscopic procedure and none of these HCPs infected
Loeb <i>et al.</i> (19)	Retrospective cohort	Transmission of SARS to ICU nurses	32 nurses participated in study; two were involved in bronchoscopic procedures and one contracted SARS
Sheikh <i>et al.</i> (20)	Observation study	Identify risk of AGPs during PFTs by measuring aerosols in healthy volunteers	33 healthy volunteers in total

SARS, Severe Acute Respiratory Syndrome; HCPs, health care professionals; AGPs, aerosol generating procedures; PFTs, pulmonary function tests.