

Table S1 Search strategy summary

Items	Specification
Date of search	Initial date of search: 5th March 2023; Final date of search: 15th July 2023
Databases and other sources searched	MEDLINE/PubMed, Cochrane Review
Search terms used	“Spontaneous pneumothorax” OR “primary spontaneous pneumothorax” OR “secondary spontaneous pneumothorax” OR “persistent air leak” AND “management” OR “chest tube vs. aspiration” OR “observation vs. intervention”
Timeframe	1970 to July 15, 2023
Inclusion criteria	Search was restricted to English articles reporting on the topics of spontaneous pneumothorax acute management and persistent air leak management. However, if pertinent non-English articles were included in other study references, then we reviewed these articles with the assistance of artificial intelligence language translation. Electronic published or early published articles were included
Selection process	Performed by lead author