

Supplementary Table 1. Systematic literature search process: Database search and results

Database	Search formula	Results	Exclusion of redundant articles	Topic-related articles
Pubmed (ovid medline)	1. Exp pharyngitis	14,829	571	259
	2. Exp sinusitis	18,882		
	3. (pharyngotonsilliti* OR tonsilliti* OR pharyngiti* OR nasopharyngiti* OR tonsillopharyngiti* OR sore throat OR sore throats).tw.	12,866		
	4. (sinusiti* OR rhinosinusiti*).tw.	17,728		
	5. (upper adj (lung OR pulmonary OR respiratory) adj2 (inflammat* OR infecti*)).tw.	6,596		
	6. OR/1-5	48,806		
	7. (Antibioti* OR antimicrob*).ti.	119,270		
	8. 6 and 7	1,789		
	9. Limit 8 to (English language and humans and yr="2006-Current")	592		
EMBASE	1. 'Pharyngitis'/exp OR 'tonsillitis'/exp OR 'sore throat'/exp	45,512	854	116
	2. 'sinusitis'/exp OR 'rhinosinusitis'/exp	37,725		
	3. Pharyngotonsilliti*:ti,ab,de OR tonsilliti*:ti,ab,de OR pharyngiti*:ti,ab,de OR nasopharyngiti*:ti,ab,de OR tonsillopharyngiti*:ti,ab,de OR 'sore throat':ti,ab,de OR 'sore throats':ti,ab,de	40,942		
	4. Sinusiti*:ti,ab,de OR rhinosinusiti*:ti,ab,de			
	5. (upper NEAR/2 (lung OR pulmonary OR respiratory)):ti,ab,de AND (inflammat*:ti,ab,de OR infecti*:ti,ab,de)	32,985		
	6. #1 OR #2 OR #3 OR #4 OR #5	111,233		
	7. Antibiotic*:ti or antimicrobial*:ti	164,524		
	8. #6 AND #7	3,486		
	9. #6 AND #7 AND [english]/lim AND [humans]/lim AND [2006-2017]/py	1,396		
KMbase	(((((ABSTRACT=pharyngiti* OR ABSTRACT=nasopharyngiti*) OR ABSTRACT=tonsillopharyngiti*) OR ABSTRACT=sinusiti*) OR ABSTRACT=rhinosinusiti*) OR (((ABSTRACT=pharyngotonsilliti*) OR ABSTRACT=tonsilliti*) OR ABSTRACT=sore throat) OR ABSTRACT=sore throats) OR ((((((ABSTRACT=인두편도염) OR ABSTRACT=인두염) OR ABSTRACT=편도염) OR ABSTRACT=후두염) OR ABSTRACT=인후두염) OR ABSTRACT=부비동염) OR ABSTRACT=상기도감염) OR ABSTRACT=상기도 감염) AND ((TITLE=guideline*) OR TITLE=recommendation*) OR TITLE=가이드라인) OR TITLE=지침) OR TITLE=권고))))	693	690	27
KoreaMed	1. (pharyngotonsilliti* OR tonsilliti* OR pharyngiti* OR nasopharyngiti* OR tonsillopharyngiti* OR "sore throat" OR "sore throats" OR sinusiti* OR rhinosinusiti*) AND (guideline* OR recommendation*)	2	2	2
	2. Limit 1 to English, Korean, Humans, Publication Date from 2006 to 2017			