

SUPPLEMENTARY MATERIAL – SEARCH STRATEGY FOR DATABASES

Database	PUBMED
Strategy	
#1	("antimicrobial stewardship"[MeSH Terms] OR ("antimicrobial"[All Fields] AND "stewardship"[All Fields]) OR "antimicrobial stewardship"[All Fields])
#2	((("antimicrobial stewardship"[MeSH Terms] OR ("antimicrobial"[All Fields] AND "stewardship"[All Fields]) OR "antimicrobial stewardship"[All Fields]) AND ("infant, newborn"[MeSH Terms] OR ("infant"[All Fields] AND "newborn"[All Fields]) OR "newborn infant"[All Fields] OR "neonates"[All Fields]))
#3	((("antimicrobial stewardship"[MeSH Terms] OR ("antimicrobial"[All Fields] AND "stewardship"[All Fields]) OR "antimicrobial stewardship"[All Fields]) AND ("anti-bacterial agents"[Pharmacological Action] OR "anti-bacterial agents"[MeSH Terms] OR ("anti-bacterial"[All Fields] AND "agents"[All Fields]) OR "anti-bacterial agents"[All Fields] OR "antibiotic"[All Fields]))
#4	((("antimicrobial stewardship"[MeSH Terms] OR ("antimicrobial"[All Fields] AND "stewardship"[All Fields]) OR "antimicrobial stewardship"[All Fields]) AND ("intensive care units, neonatal"[MeSH Terms] OR ("intensive"[All Fields] AND "care"[All Fields] AND "units"[All Fields] AND "neonatal"[All Fields]) OR "neonatal intensive care units"[All Fields] OR ("neonatal"[All Fields] AND "intensive"[All Fields] AND "care"[All Fields] AND "unit"[All Fields]) OR "neonatal intensive care unit"[All Fields]))
#5	((("antimicrobial stewardship"[MeSH Terms] OR ("antimicrobial"[All Fields] AND "stewardship"[All Fields]) OR "antimicrobial stewardship"[All Fields]) AND C-protein[All Fields] AND reactive[All Fields])
#6	((("antimicrobial stewardship"[MeSH Terms] OR ("antimicrobial"[All Fields] AND "stewardship"[All Fields]) OR "antimicrobial stewardship"[All Fields]) AND ("interleukin-6"[MeSH Terms] OR "interleukin-6"[All Fields] OR "interleukin 6"[All Fields]))
#7	((("antimicrobial stewardship"[MeSH Terms] OR ("antimicrobial"[All Fields] AND "stewardship"[All Fields]) OR "antimicrobial stewardship"[All Fields]) AND ("interleukin-8"[MeSH Terms] OR "interleukin-8"[All Fields] OR "interleukin 8"[All Fields])) AND (("2000/01/01"[PDAT] : "2019/04/30"[PDAT]))
#8	((("2000/01/01"[PDAT] : "2019/04/30"[PDAT]))
#9	("infant, newborn"[MeSH Terms] OR ("infant"[MeSH Terms] OR "child"[MeSH Terms] OR "adolescent"[MeSH Terms]))
#10	((Classical Article[ptyp] OR Clinical Study[ptyp] OR Clinical Trial[ptyp] OR Comparative Study[ptyp] OR Controlled Clinical Trial[ptyp] OR Historical Article[ptyp] OR Meta-Analysis[ptyp] OR Multicenter Study[ptyp] OR Observational Study[ptyp] OR Pragmatic Clinical Trial[ptyp] OR systematic[sb]))
#11	" humans " [MeSH Terms]
#12	(#1 OR #2 OR # 3 OR # 4 OR #5 OR # 6 OR #7) AND # 8 AND # 9 AND #10 AND #11

Database	EMBASE
Strategy	
#1	"antimicrobial stewardship": ab, ti
#2	"neonates": ab, ti
#3	"neonatal intensive care unit":ab,ti
#4	"antibiotic use": ab, ti
#5	"C-reactive protein": ab, ti
#6	"interleukin 6": ab, ti

#7	"interleukin 8":ab,ti
#8	"clinical study"/exp OR 'clinical trial':ti,ab OR 'clinical trials':ti,ab OR 'controlled study'/exp OR 'evaluation'/exp R 'cross-sectional study'/exp OR 'cross sectional':ab,ti OR 'evaluation study':ab,ti OR 'evaluation studies':ab,ti OR 'intervention study':ab,ti OR 'intervention studies':ab,ti OR 'case control':ab,ti OR 'cohort analysis'/exp OR cohort:ab,ti OR longitudinal*:ab,ti OR prospective:ab,ti OR prospectively:ab,ti OR retrospective:ab,ti OR 'follow up'/exp OR 'follow up':ab,ti OR 'comparative effectiveness'/exp OR 'comparative study'/exp OR 'comparative study':ab,ti OR 'comparative studies':ab,ti) NOT ('case report'/exp OR 'case study'/exp OR 'editorial'/exp OR 'letter'/exp OR 'note'/exp OR [conference abstract]/lim) AND [2000–2019]/py AND [humans]/lim AND [embase]/lim NOT [medline]/lim
#9	(#1 AND #2) OR (#1 AND #3) OR (#1 AND #2 AND #4) OR (#1 AND #2 AND #5) OR (#1 AND #2 AND #6) OR (#1 AND #2 AND #7) OR (#1 AND #2 AND #8) AND #8

Database	SCIELO
Strategy	
#1	"antimicrobial stewardship"
#2	"antimicrobial stewardship AND neonates"
#3	"antimicrobial stewardship and neonatal intensive care unit"
#4	"antimicrobial stewardship and neonates and C-reactive protein"
#5	"antimicrobial stewardship and neonates and interleukin 6"
#6	"antimicrobial stewardship and neonates and interleukin 8"
#7	type:("research-article" OR "rapid-communication")
#8	(#1 OR #2 OR # 3 OR #4 OR #5 OR #6) AND #7

Database	COCHRANE DATABASE OF SYSTEMATIC REVIEWS
Strategy	
#1	(antimicrobial stewardship): ti, ab, kw
#2	(antimicrobial stewardship and neonates): ti,ab, kw
#3	(antimicrobial stewardship and neonatal intensive care unit): ti,ab, kw
#4	(antimicrobial stewardship and neonates and C-reactive protein): ti, ab, tw
#5	(antimicrobial stewardship and neonates and interleukin 6): ti, ab, kw
#6	(antimicrobial stewardship and neonates and interleukin 8): ti, ab, kw
#7	with Publication Year from 2000 to 2019, with Cochrane Library publication date from Jan 2000 to Apr 2019, in Trials (Word variations have been searched)
#8	# 1 OR #2 OR #3 OR #4 OR #5 OR #6 AND #7