

**Study : Evaluation of Hospital Antimicrobial Stewardship Programs: Implementation, process, impact, and outcomes, review of systematic reviews**

Supplement S1 : Outlines of the review protocol

**Search period** : 28/08/2022 for the preceding 10 years.

**Search engines** : Five major databases were searched: OVID-Medline, PubMed, Embase, Cochrane, and Google Scholar.

<b>Stem</b>	<b>AND</b>	<b>OR</b>
Antimicrobial Stewardship Programs AMSP ASP	Secondary care/ Tertiary care Hospital	Healthcare
Antimicrobial consumption Antibiotics	Secondary care / Tertiary care Hospital	Tertiary care DDD
Major ASP Concepts	Process Efficacy AMR Economic / Cost effectiveness Safety	Outcome Effectiveness/efficiency Resistance Impact/burden Adverse events
Boolean MeSH variations	Antibio*Antimicrob* Steward* ASP* AMSP* AMR* Effic*	Hosp*Hos* Secondary care / Tertiary care

**Inclusion and exclusion criteria**

<b>Stem</b>	<b>Inclusion</b>	<b>Exclusion</b>
Types of studies	Systematic reviews using PRISMA methodology	Non-congruent systematic methodology Reviews Scoping reviews
Publication types	Papers published in peer reviewed journals or open access publications	Non peer reviewed articles Policies and guidelines Editorials Letters and comments
Research results	Any implementation processes. Any impact Any outcome measures	No available outcomes
Settings	Hospital based : Secondary care /tertiary care	Primary care Ambulatory care Long-term facilities / Nursing homes
Age	No age restrictions	Nil
Gender	All included	Nil
Countries	Regions or global	Singular countries
Pathogens	Groups / families of pathogens	Singular pathogens Reporting COVID pandemic related outcomes
Species	Humans	Other species
Language	All languages	Nil