

## Supplemental material

## Supplementary Table 1. Full search terms for the bibliographic databases

#		Results 10/12/2021
1 – AMR	<p>(('drug resistance'/de OR 'antibiotic resistance'/exp OR 'antifungal resistance'/exp OR 'cross resistance'/exp OR 'extensive drug resistance'/exp OR 'multidrug resistance'/exp OR (drug-resistan* OR multidrug-resistan* OR anti-biotic-resistan* OR antibiotic-resistan* OR antibacterial-resistan* OR anti-bacterial-resistan* OR bacterial-resistan* OR bacterium-resistan* OR antimicrobial-resistan* OR microbial-resistan* OR anti-fungal-resistan* OR antifungal-resistan* OR cross-resistan* OR antibiotic-non-susceptib* OR antibiotic-nonsusceptib* OR drug-non-susceptib* OR drug-nonsusceptib*):ab,ti )</p> <p>OR</p> <p>('carbapenem resistant Acinetobacter baumannii'/exp OR ((Acinetobacter-baumannii* OR Achromobacter-mucosus OR Acinetobacter-baumanii OR Acinetobacter-baumannii OR Acinetobacter-genomosp.-2 OR Acinetobacter-genomospecies-2 OR Bacterium-anitratum OR Bact.-anitratum) AND ( carbapenem-resistan* OR carbapenem-non-susceptib* OR carbapenem-nonsuscept*)):ti,ab)</p> <p>OR</p> <p>('carbapenem resistant Pseudomonas aeruginosa'/exp OR ((Pseudomonas-aeruginosa OR Bacillus-aeruginosus OR Bacillus-pyocyaneus OR Bacterium-aeruginosum OR Bacterium-pyocyaneum OR blue-pus-organism OR Micrococcus-pyocyaneus OR P.-aeruginosa OR Pseudomonas-polycolor OR Pseudomonas-pyoceaneus OR Pseudomonas-pyocyanea OR Pseudomonas-pyocyaneus) AND (carbapenem-resistan* OR carbapenem-non-susceptib* OR carbapenem-nonsuscept*)):ti,ab)</p> <p>OR</p> <p>('carbapenem-resistant Enterobacteriaceae'/exp OR ((Enterobacteriaceae OR enteric-bacteria OR enterobacteria OR enterobacteriaceae OR enterobacterium OR Klebsiella-pneumonia OR Escherichia-coli OR Bacillus-coli OR Bacillus-escherichii OR Bacterium-coli OR Bacterium-coli OR bacterium-E3 OR coli-bacillus OR coli-bacterium OR colibacillus OR colon-bacillus OR E-coli OR E.-coli OR E.coli OR Enterococcus-coli OR Escherichia-alkalescens OR Enterobacter OR Serratia OR Proteus OR Providencia OR Morganella) AND (carbapenem-resistan* OR carbapenem-non-susceptib* OR carbapenem-nonsuscept* OR 3rd-generation-cephalosporin-resistan* OR third-generation-cephalosporin-resistan* OR third-generation-cephalosporin-non-susceptib*)):ti,ab)</p> <p>OR</p>	513,168

<p>('vancomycin resistant Enterococcus'/exp OR (VAN-R-enterococci OR VAN-R-Enterococcus OR (Streptococcus-faecium OR Enterococcus-faecium) AND (vancomycin-resistan* OR VAN-resistan* OR vancomycin-non-susceptib* OR vancomycin-nonsusceptib*)):ti,ab)</p> <p>OR</p> <p>('methicillin resistant Staphylococcus aureus'/exp OR 'methicillin resistant Staphylococcus aureus infection'/exp OR 'vancomycin resistant Staphylococcus aureus'/exp OR 'vancomycin intermediate Staphylococcus aureus'/exp OR (MRSA OR VRSA OR (Staphylococcus-aureus OR S.-aureus) AND (vancomycin-resistan* OR VAN-resistan* OR vancomycin-nonsusceptib* OR vancomycin-non-susceptib* OR Van-intermediate-resistan* OR vancomycin-intermediate-resistan* OR methicillin-resistan* OR methicillin-nonsusceptib* OR methicillin-non-susceptib*)):ti,ab)</p> <p>OR</p> <p>((Helicobacter-pylori OR Campylobacter-pylori* OR Helicobacter-nemestrinae) AND (clarithromycin-resistan* OR clarithromycin-nonsusceptible OR clarithromycin-non-susceptib*)):ti,ab)</p> <p>OR</p> <p>((Campylobacter) AND (fluoroquinolone-resistan* OR fluorinated-quinolone-resistan* OR fluoro-quinolone-resistan* OR fluoroquinolones-resistan* OR fluoroquinolone-nonsusceptible OR fluoroquinolone-nonsusceptible)):ti,ab)</p> <p>OR</p> <p>((Salmonella) AND (fluoroquinolone-resistan* OR fluorinated-quinolone-resistan* OR fluoro-quinolone-resistan* OR fluoroquinolones-resistan* OR fluoroquinolone-nonsusceptible OR fluoroquinolone-nonsusceptible)):ti,ab)</p> <p>OR</p> <p>((Neisseria-gonorrhoeae OR Gonococcus-neisseri OR Gonococcus-neisseria OR Micrococcus-gonorrhoeae OR N.-gonorrhoeae OR Neisseria-gonococcus OR Neisseria-gonorrhoeae OR Neisseria-gonorrhoea OR Neisseria-gonorrhoea) AND (3rd-generation-cephalosporin-resistan* OR third-generation-cephalosporin-resistan* OR fluoroquinolone-resistan* OR fluorinated-quinolone-resistan* OR fluoro-quinolone-resistan* OR fluoroquinolones-resistan* OR fluoroquinolone-nonsusceptible OR fluoroquinolone-nonsusceptible)):ti,ab)</p> <p>OR</p> <p>('penicillin resistant Streptococcus pneumoniae'/exp OR ((Streptococcus-pneumoniae OR Diplococcus-pneumoniae OR Micrococcus-pneumoniae OR Pneumococcus OR pneumococcus OR Pneumococcus-pneumoniae) AND (penicillin-resistan* OR penicillin-non-susceptib* OR penicillin-nonsusceptib* OR fluoroquinolone-nonsusceptible OR fluoroquinolone-non-susceptible)):ti,ab)</p> <p>OR</p>	
--	--

	( ((Haemophilus-influenza* OR Hemophilus-influenza* OR H.-influenza* OR Bacterium-influenza* OR Coccobacillus-pfeifferi OR Hemophilus-influenzae OR influenza-bacillus OR Mycobacterium-influenzae OR pfeiffer-bacillus) AND (ampicillin-resistan* OR Amp-resistan* OR ampicillin-nonsusceptib* OR ampicillin-non-susceptib* )):ti,ab) OR (((Shigella) AND (fluoroquinolone-resistan* OR fluorinated-quinolone-resistan* OR fluoro-quinolone-resistan* OR fluoroquinolones-resistan* OR fluoroquinolone-nonsusceptible OR fluoroquinolone-nonsusceptible)):ti,ab) OR (('multidrug resistant tuberculosis'/exp OR (RR-TB OR MDR-TB OR Pre-XDR-TB OR XDR-TB OR drug-resistant-TB OR multidrug-resistant-TB OR multidrug-resistant-tuberculos* OR drug-resistant-tuberculos* OR ((Mycobacterium-tuberculos* OR pulmonary-tuberculos* OR pulmonary-TB) AND (isoniazid-resistan* OR rifampicin-resistan* OR floroquinolone-resistan* OR levofloxacin-resistan* OR moxifloxacin-resistan* OR bedaquiline-resistan* OR linezolid-resistan* OR multidrug-resistan* OR drug-resistan*)):ab,ti) OR ( ((Aspergillus OR a.-fumigatus OR a.-flavus OR Neosartorya-fumigate OR Candida OR c.-auris OR c.-albicans) AND (resistan* OR non-susceptib* OR nonsusceptib*)):ti,ab)	
#2 - SR	('systematic review'/de OR 'meta-analysis'/de OR ((systematic* NEAR/3 review*) OR metaanaly* OR meta-analy* OR scoping):ab,ti)	564,680
#3	#1 AND #2	7,288
#4 – Animal Studies filter	NOT ('animal'/exp OR 'nonhuman'/exp NOT ('animal'/exp OR 'nonhuman'/exp AND 'human'/exp))	6,949
#5 Specific animals	NOT (rat OR rats OR mouse OR mice OR hamster OR hamsters OR dog OR dogs OR cat OR cats OR bovine OR sheep):ti	6946
#6- Date filter	#5 AND [1-1-2012]/sd NOT [2-1-2022]/sd AND [2012-2022]/py	5,288

Pubmed

<https://pubmed.ncbi.nlm.nih.gov/>

#		Results 10/12/2021
1 – AMR	("Drug Resistance, Bacterial"[Mesh] OR "Drug Resistance, Fungal"[Mesh] OR "Drug Resistance, Multiple, Bacterial"[Mesh] OR "Drug Resistance, Multiple, Fungal"[Mesh] OR "Antimicrobial Stewardship"[Mesh] OR drug-resistan*[tiab] OR multidrug-	318,242

	<p>resistan*[tiab] OR anti-biotic-resistan*[tiab] OR antibiotic-resistan*[tiab] OR antibacterial-resistan*[tiab] OR anti-bacterial-resistan*[tiab] OR bacterial-resistan*[tiab] OR bacterium-resistan*[tiab] OR antimicrobial-resistan*[tiab] OR microbial-resistan*[tiab] OR anti-fungal-resistan*[tiab] OR antifungal-resistan*[tiab] OR cross-resistan*[tiab] OR antibiotic-nonsusceptib*[tiab] OR antibiotic-nonsusceptib*[tiab] OR drug-nonsusceptib*[tiab] OR drug-nonsusceptib*[tiab])</p> <p>OR</p> <p>((("Acinetobacter baumannii"[Mesh] OR Acinetobacter-baumannii*[tiab] OR Achromobacter-mucosus[tiab] OR Acinetobacter-baumannii[tiab] OR Acinetobacter-baumannii[tiab] OR Acinetobacter-genomosp.-2[tiab] OR Acinetobacter-genomospecies-2[tiab] OR Bacterium-anitratum[tiab] OR Bact.-anitratum[tiab]) AND (carbapenem-resistan*[tiab] OR carbapenem-nonsusceptib*[tiab] OR carbapenem-nonsuscept*[tiab])))</p> <p>OR</p> <p>((("Pseudomonas aeruginosa"[Mesh] OR Pseudomonas-aeruginosa[tiab] OR Bacillus-aeruginosus[tiab] OR Bacillus-pyocyaneus[tiab] OR Bacterium-aeruginosum[tiab] OR Bacterium-pyocyaneum[tiab] OR blue-pus-organism[tiab] OR Micrococcus-pyocyaneus[tiab] OR P.-aeruginosa[tiab] OR Pseudomonas-polycolor[tiab] OR Pseudomonas-pyocaneus[tiab] OR Pseudomonas-pyocaneus[tiab] OR Pseudomonas-pyocaneus[tiab]) AND (carbapenem-resistan*[tiab] OR carbapenem-nonsusceptib*[tiab] OR carbapenem-nonsuscept*[tiab])))</p> <p>OR</p> <p>("Carbapenem-Resistant Enterobacteriaceae"[Mesh] OR ("Enterobacteriaceae"[Mesh] OR Enterobacteriaceae[tiab] OR enterobacteria[tiab] OR enterobacteria[tiab] OR enterobacteriaceae[tiab] OR enterobacterium[tiab] OR Klebsiella-pneumonia[tiab] OR Escherichia-coli[tiab] OR Bacillus-coli[tiab] OR Bacillus-escherichii[tiab] OR Bacterium-coli[tiab] OR Bacterium-coli[tiab] OR bacterium-E3[tiab] OR coli-bacillus[tiab] OR coli-bacterium[tiab] OR colibacillus[tiab] OR colon-bacillus[tiab] OR E-coli[tiab] OR E.-coli[tiab] OR E.coli[tiab] OR Enterococcus-coli[tiab] OR Escherichia-alkalescens[tiab] OR Enterobacter[tiab] OR Serratia[tiab] OR Proteus[tiab] OR Providencia[tiab] OR Morganella[tiab]) AND (carbapenem-resistan*[tiab] OR carbapenem-nonsusceptib*[tiab] OR carbapenem-nonsuscept*[tiab] OR 3rd-generation-cephalosporin-resistan*[tiab] OR third-generation-cephalosporin-resistan*[tiab] OR third-generation-cephalosporin-nonsusceptib*[tiab])))</p> <p>OR</p> <p>("Vancomycin-Resistant Enterococci"[Mesh] OR VAN-R-enterococci OR VAN-R-Enterococcus OR ("Enterococcus faecium"[Mesh] OR Streptococcus-faecium OR Enterococcus-faecium) AND ("Vancomycin Resistance"[Mesh] OR</p>	
--	---	--

	<p>vancomycin-resistan*[tiab] OR VAN-resistan*[tiab] OR vancomycin-non-susceptib*[tiab] OR vancomycin-nonsusceptib*[tiab]))))  OR  ("Methicillin-Resistant Staphylococcus aureus"[Mesh] OR "vancomycin resistant Staphylococcus aureus"[mesh] OR "Vancomycin-Resistant Staphylococcus aureus"[Mesh] OR MRSA[tiab] OR VRSA[tiab] OR (("Staphylococcus aureus"[Mesh] OR Staphylococcus-aureus[tiab] OR S.-aureus[tiab]) AND ("Methicillin Resistance"[Mesh] OR "Vancomycin Resistance"[Mesh] OR vancomycin-resistan*[tiab] OR VAN-resistan*[tiab] OR vancomycin-nonsusceptib*[tiab] OR vancomycin-non-susceptib*[tiab] OR Van-intermediate-resistan*[tiab] OR vancomycin-intermediate-resistan*[tiab] OR methicillin-resistan*[tiab] OR methicillin-nonsusceptib*[tiab]))))  OR  ( ("Helicobacter pylori"[Mesh] OR Helicobacter-pylori[tiab] OR Campylobacter-pylori*[tiab] OR Helicobacter-nemestrinae) AND (clarithromycin-resistan* OR clarithromycin-non-susceptib*[tiab]))))  OR  ( ("Campylobacter"[Mesh] OR Campylobacter[tiab]) AND (fluoroquinolone-resistan*[tiab] OR fluorinated-quinolone-resistan*[tiab] OR fluoro-quinolone-resistan*[tiab] OR fluoroquinolones-resistan*[tiab] OR fluoroquinolone-nonsusceptible[tiab] OR fluoroquinolone-non-susceptible[tiab]))))  OR  ( ("Salmonella"[Mesh] OR Salmonella[tiab]) AND (fluoroquinolone-resistan*[tiab] OR fluorinated-quinolone-resistan*[tiab] OR fluoro-quinolone-resistan*[tiab] OR fluoroquinolones-resistan*[tiab] OR fluoroquinolone-nonsusceptible[tiab] OR fluoroquinolone-non-susceptible[tiab]))))  OR  ( ("Neisseria gonorrhoeae"[Mesh] OR Neisseria-gonorrhoeae[tiab] OR Gonococcus-neisseri[tiab] OR Gonococcus-neisseria[tiab] OR Micrococcus-gonorrhoeae[tiab] OR N.-gonorrhoeae[tiab] OR Neisseria-gonococcus[tiab] OR Neisseria-gonorrhoeae[tiab] OR Neisseria-gonorrhoeae[tiab] OR Neisseria-gonorrhoea[tiab] OR Neisseria-gonorrhoeae[tiab] OR Neisseria-gonorrhoea[tiab]) AND (3rd-generation-cephalosporin-resistan*[tiab] OR third-generation-cephalosporin-resistan*[tiab] OR fluoroquinolone-resistan*[tiab] OR fluorinated-quinolone-resistan*[tiab] OR fluoro-quinolone-resistan*[tiab] OR fluoroquinolones-resistan*[tiab] OR fluoroquinolone-nonsusceptible[tiab] OR fluoroquinolone-non-susceptible[tiab] )))  OR  (("Streptococcus pneumoniae"[Mesh] OR Streptococcus-pneumoniae[tiab] OR Diplococcus-pneumoniae[tiab] OR Micrococcus-pneumoniae[tiab] OR Pneumococcus[tiab] OR pneumococcus[tiab] OR Pneumococcus-pneumoniae[tiab]) AND</p>	
--	---	--

	<p>("Penicillin Resistance"[Mesh] OR penicillin-resistan*[tiab] OR penicillin-non-susceptib*[tiab] OR penicillin-nonsusceptib*[tiab]))</p> <p>OR</p> <p>( ("Haemophilus influenzae"[Mesh] OR Hemophilus-influenza*[tiab] OR Bacterium-influenzae OR Coccobacillus-pfeifferi OR H.-influenza*[tiab] OR Haemophilus-influenza*[tiab] OR influenza-bacillus[tiab] OR Mycobacterium-influenzae[tiab] OR pfeiffer-bacillus[tiab]) AND (ampicillin-resistan*[tiab] OR Amp-resistan*[tiab] OR ampicillin-nonsusceptib*[tiab] OR ampicillin-non-susceptib*[tiab]))</p> <p>OR</p> <p>((("Shigella"[Mesh] OR Shigella[tiab]) AND (fluoroquinolone-resistan*[tiab] OR fluorinated-quinolone-resistan*[tiab] OR fluoroquinolone-resistan*[tiab] OR fluoroquinolones-resistan*[tiab] OR fluoroquinolone-nonsusceptible[tiab] OR fluoroquinolone-nonsusceptible[tiab]))</p> <p>OR</p> <p>("Tuberculosis, Multidrug-Resistant"[Mesh] OR "Extensively Drug-Resistant Tuberculosis"[Mesh] OR RR-TB OR MDR-TB OR Pre-XDR-TB OR XDR-TB OR drug-resistant-TB OR multidrug-resistant-TB OR multidrug-resistant-tuberculos*[tiab] OR drug-resistant-tuberculos*[tiab] OR ((Mycobacterium-tuberculos*[tiab] OR pulmonary-tuberculos*[tiab] OR pulmonary-TB[tiab]) AND (isoniazid-resistan*[tiab] OR rifampicin-resistan*[tiab] OR floroquinolone-resistan*[tiab] OR levofloxacin-resistan*[tiab] OR moxifloxacin-resistan*[tiab] OR bedaquiline-resistan*[tiab] OR linezolid-resistan*[tiab] OR multidrug-resistan*[tiab] OR drug-resistan*[tiab]))</p> <p>OR</p> <p>( ("Aspergillus"[Mesh] OR Aspergillus[tiab] OR a.-fumigatus[tiab] OR a.-flavus[tiab] OR Neosartorya-fumigate[tiab] OR Candida[tiab] OR c.-auris[tiab] OR c.-albicans[tiab]) AND (resistan*[tiab] OR non-susceptib*[tiab] OR nonsusceptib*[tiab] )))</p>	
#2 - SR	"Systematic Reviews as Topic"[Mesh] OR "Systematic Review" [Pt] OR systematic[sb] OR systematic-review*[tiab] OR meta-analysis[pt] OR meta-analysis as topic[mh] OR metaanalys*[tiab] OR meta-analys*[tiab] OR scoping[tiab]	366,960
#3	#1 AND #2	3,887
#4 – Animal Studies filter	NOT ("Animals"[Mesh] NOT ("Animals"[Mesh] AND "Humans"[Mesh]))	3,845
#5 Specific animals	NOT (rat[ti] OR rats[ti] OR mouse[ti] OR mice[ti] OR hamster[ti] OR hamsters[ti] OR dog[ti] OR dogs[ti] OR cat[ti] OR cats[ti] OR bovine[ti] OR sheep[ti])	3,839
#6- Date filter	#5 AND [1-1-2012]/sd NOT [2-1-2022]/sd AND [2012-2022]/py	3,181

Web of Science  
<https://www.webofscience.com/>

#		Results 06/12/2021
1 – AMR	<p>(drug-resistan* OR multidrug-resistan* OR anti-biotic-resistan* OR antibiotic-resistan* OR antibacterial-resistan* OR anti-bacterial-resistan* OR bacterial-resistan* OR bacterium-resistan* OR antimicrobial-resistan* OR microbial-resistan* OR anti-fungal-resistan* OR antifungal-resistan* OR cross-resistan* OR antibiotic-non-susceptib* OR antibiotic-nonsusceptib* OR drug-non-susceptib* OR drug-nonsusceptib*)</p> <p>OR</p> <p>((Acinetobacter-baumannii* OR Achromobacter-mucosus OR Acinetobacter-baumannii OR Acinetobacter-baumannii OR Acinetobacter-genomosp.-2 OR Acinetobacter-genomospespecies-2 OR Bacterium-anitratum OR Bact.-anitratum) AND (carbapenem-resistan* OR carbapenem-non-susceptib* OR carbapenem-nonsuscept*))</p> <p>OR</p> <p>((Pseudomonas-aeruginosa OR Bacillus-aeruginosus OR Bacillus-pyocyaneus OR Bacterium-aeruginosum OR Bacterium-pyocyaneum OR blue-pus-organism OR Micrococcus-pyocyaneus OR P.-aeruginosa OR Pseudomonas-polycolor OR Pseudomonas-pyoceaneus OR Pseudomonas-pyocyanea OR Pseudomonas-pyocyaneus) AND (carbapenem-resistan* OR carbapenem-non-susceptib* OR carbapenem-nonsuscept*))</p> <p>OR</p> <p>((Enterobacteriaceae OR enteric-bacteria OR enterobacteria OR enterobacteriaceae OR enterobacterium OR Klebsiella-pneumonia OR Escherichia-coli OR Bacillus-coli OR Bacillus-escherichii OR Bacterium-coli OR Bacterium-coli OR bacterium-E3 OR coli-bacillus OR coli-bacterium OR colibacillus OR colon-bacillus OR E-coli OR E.-coli OR E.coli OR Enterococcus-coli OR Escherichia-alkalescens OR Enterobacter OR Serratia OR Proteus OR Providencia OR Morganella) AND (carbapenem-resistan* OR carbapenem-non-susceptib* OR carbapenem-nonsuscept* OR 3rd-generation-cephalosporin-resistan* OR third-generation-cephalosporin-resistan* OR third-generation-cephalosporin-non-susceptib*))</p> <p>OR</p> <p>(VAN-R-enterococci OR VAN-R-Enterococcus OR ((Streptococcus-faecium OR Enterococcus-faecium) AND (vancomycin-resistan* OR VAN-resistan* OR vancomycin-non-susceptib* OR vancomycin-nonsusceptib*))</p> <p>OR</p> <p>(MRSA OR VRSA OR ((Staphylococcus-aureus OR S.-aureus) AND (vancomycin-resistan* OR VAN-resistan* OR vancomycin-</p>	339,733

	<p>nonsusceptib* OR vancomycin-non-susceptib* OR Van-intermediate OR vancomycin-intermediate OR methicillin-resistan*))</p> <p>OR</p> <p>((Helicobacter-pylori OR Campylobacter-pylori* OR Helicobacter-nemestrinae) AND (clarithromycin-resistan* OR clarithromycin-nonsusceptib*))</p> <p>OR</p> <p>((Campylobacter) AND (fluoroquinolone-resistan* OR fluorinated-quinolone-resistan* OR fluoro-quinolone-resistan* OR fluoroquinolones-resistan* OR fluoroquinolone-nonsusceptible OR fluoroquinolone-non-susceptible)))</p> <p>OR</p> <p>((Salmonella) AND (fluoroquinolone-resistan* OR fluorinated-quinolone-resistan* OR fluoro-quinolone-resistan* OR fluoroquinolones-resistan* OR fluoroquinolone-nonsusceptible OR fluoroquinolone-non-susceptible)))</p> <p>OR</p> <p>((Neisseria-gonorrhoeae OR Gonococcus-neisseri OR Gonococcus-neisseria OR Micrococcus-gonorrhoeae OR N.-gonorrhoeae OR Neisseria-gonococcus OR Neisseria-gonorrhoeae OR Neisseria-gonorrhoea OR Neisseria-gonorrhoeae OR Neisseria-gonorrhoea) AND (3rd-generation-cephalosporin-resistan* OR third-generation-cephalosporin-resistan* OR fluoroquinolone-resistan* OR fluorinated-quinolone-resistan* OR fluoro-quinolone-resistan* OR fluoroquinolones-resistan* OR fluoroquinolone-nonsusceptible OR fluoroquinolone-non-susceptible)))</p> <p>OR</p> <p>((Streptococcus-pneumoniae OR Diplococcus-pneumoniae OR Micrococcus-pneumoniae OR Pneumococcus OR pneumococcus OR Pneumococcus-pneumoniae) AND (penicillin-resistan* OR penicillin-nonsusceptib* OR penicillin-nonsusceptib*))</p> <p>OR</p> <p>((Hemophilus-influenza* OR Bacterium-influenzae OR Coccobacillus-pfeifferi OR H.-influenza* OR Haemophilus-influenza* OR influenza-bacillus OR Mycobacterium-influenzae OR pfeiffer-bacillus) AND (ampicillin-resistan* OR Amp-resistan* OR ampicillin-nonsusceptib* OR ampicillin-nonsusceptib*))</p> <p>OR</p> <p>((Shigella) AND (fluoroquinolone-resistan* OR fluorinated-quinolone-resistan* OR fluoro-quinolone-resistan* OR fluoroquinolones-resistan* OR fluoroquinolone-nonsusceptible OR fluoroquinolone-nonsusceptible)))</p> <p>OR</p> <p>(RR-TB OR MDR-TB OR Pre-XDR-TB OR XDR-TB OR drug-resistant-TB OR multidrug-resistant-TB OR multidrug-resistant-tuberculos* OR drug-resistant-tuberculos* OR (Mycobacterium-tuberculos* OR pulmonary-tuberculos* OR pulmonary-TB) AND</p>	
--	---	--



	(isoniazid-resistan* OR rifampicin-resistan* OR fluoroquinolone-resistan* OR levofloxacin-resistan* OR moxifloxacin-resistan* OR bedaquiline-resistan* OR linezolid-resistan* OR multidrug-resistan* OR drug-resistan*)) OR ( ((Aspergillus OR a.-fumigatus OR a.-flavus OR Neosartorya-fumigate OR Candida OR c.-auris OR c.-albicans) AND (resistan* OR non-susceptib*)))	
#2 - SR	TS=("Systematic Review" OR (systematic NEAR/3 *review*) OR metaanalys* OR meta-analys* OR met*analys* OR (scoping NEAR/3 (literature OR *review*)))	602,250
#3	#1 AND #2	5,279
#4 Specific animals	NOT TI=(rat OR rats OR mouse OR mice OR hamster OR hamsters OR dog OR dogs OR cat OR cats OR bovine OR sheep)	5,254
#5- Date filter	#5 AND Timespan: 2012-01-01 to 2022-01-01 (Index Date)	4,428

**Supplementary Table 2.** Data attributes to be extracted

<b>Document-level attributes</b>	
Author(s);	
Author type	<ul style="list-style-type: none"> <li>- Government agency;</li> <li>- International (technical) agency/organization;</li> <li>- Funding agency/donor;</li> <li>- Research organization/university;</li> <li>- Expert group/professional association;</li> <li>- Individual authors;</li> <li>- Audit/accreditation body;</li> <li>- Private for-profit organization;</li> <li>- Non-government organization;</li> <li>- Other</li> <li>- Unassigned</li> </ul>
Journal/Book	Open text
Publisher	Open text
Publication year	
Country/countries of origin	Open text
Funding source	Open text
Information source	<ul style="list-style-type: none"> <li>- WHO document;</li> <li>- WHO guideline;</li> <li>- Grey literature;</li> <li>- Systematic reviews in the bibliographic database;</li> <li>- Scientific papers suggested by the WHO AMR Steering Group</li> </ul>
Purpose/Type of document	<ul style="list-style-type: none"> <li>- Guidance/guideline;</li> <li>- Report;</li> <li>- Systematic review/meta-analysis;</li> <li>- Narrative review/commentary/editorial;</li> <li>- Other</li> </ul>
Data extractor 1 and 2	
Date of data extraction 1 and 2	
Confirmation on document's inclusion/exclusion criteria	<p>Document inclusion criteria:</p> <ol style="list-style-type: none"> <li>1. Document describes one or more knowledge gaps or research questions on AMR, including priorities, framework, components, elements, or steps for the description (i.e., epidemiology, burden and drivers), delivery, development and/or discovery of tools, products, or interventions for AMR prevention, diagnosis and/or care &amp; treatment.</li> <li>2. Document has a global or regional application and/or relevance for LMIC.</li> </ol> <p>Document exclusion criteria:</p>

	<ol style="list-style-type: none"> <li>1. Document only describes individual research studies or case reports;</li> <li>2. Document is not related to bacteria included in the WHO priority pathogen list, M. tuberculosis or critical fungi (e.g., parasites, viruses);</li> <li>3. Document is related to AMR in the non-human sectors;</li> <li>4. Document has no identifiable authors, publisher and year of publication.</li> </ol>
<b>Document-level and research-question level attributes</b>	
Geographical scope	<ul style="list-style-type: none"> <li>- Unassigned</li> <li>- Global</li> <li>- Regional;</li> <li>- National;</li> <li>- Subnational/local</li> </ul>
Region (if applicable)	Open text;
Country/-ies (if applicable)	Open text;
Resource/socioeconomic context (World Bank definition)	<ul style="list-style-type: none"> <li>- Unassigned</li> <li>- General/overall</li> <li>- LIC</li> <li>- MIC</li> <li>- HIC</li> <li>- Low- and Middle-Income Countries (LMIC)</li> </ul>
Population	<ul style="list-style-type: none"> <li>- Unassigned</li> <li>- General/overall</li> <li>- Adult</li> <li>- Children</li> <li>- Neonates</li> <li>- Elderly</li> <li>- Immunocompromised</li> <li>- Comorbidities</li> <li>- Pregnant women</li> <li>- Other vulnerable groups</li> </ul>
Setting	<ul style="list-style-type: none"> <li>- Unassigned</li> <li>- General/overall</li> <li>- Community</li> <li>- Health care system <ul style="list-style-type: none"> <li>o Primary health care</li> <li>o Acute-care hospitals (including secondary and tertiary care)</li> <li>o Long-term care facilities (including nursing homes)</li> <li>o ICU</li> </ul> </li> </ul>
Micro-organism group	<ul style="list-style-type: none"> <li>- Unassigned</li> <li>- General/overall</li> <li>- PPL</li> <li>- TB</li> </ul>

	- Critical fungi
Antibiotic-microorganism combination (refer to Table 1) -	<ul style="list-style-type: none"> <li>- Unassigned</li> <li>- General/overall</li> <li>- <i>Acinetobacter baumannii</i>: carbapenem-resistant</li> <li>- <i>Pseudomonas aeruginosa</i>: carbapenem-resistant</li> <li>- Enterobacteriaceae (including <i>Klebsiella pneumoniae</i>, <i>Escherichia coli</i>, <i>Enterobacter</i> spp., <i>Serratia</i> spp., <i>Proteus</i> spp., and <i>Providencia</i> spp, <i>Morganella</i> spp.): carbapenem-resistant, 3rd generation cephalosporin-resistant</li> <li>- <i>Enterococcus faecium</i>: vancomycin-resistant</li> <li>- <i>Staphylococcus aureus</i>: methicillin-resistant, vancomycin-intermediate and -resistant</li> <li>- <i>Helicobacter pylori</i>: clarithromycin-resistant</li> <li>- <i>Campylobacter</i>: fluoroquinolone-resistant</li> <li>- <i>Salmonella</i> spp.: fluoroquinolone-resistant</li> <li>- <i>Neisseria gonorrhoeae</i>: 3rd generation cephalosporin-resistant, fluoroquinolone-resistant</li> <li>- <i>Streptococcus pneumoniae</i>: penicillin-non-susceptible</li> <li>- <i>Haemophilus influenzae</i>: ampicillin-resistant</li> <li>- <i>Shigella</i> spp.: fluoroquinolone-resistant</li> <li>- RR-TB</li> <li>- MDR-TB</li> <li>- Pre-XDR-TB</li> <li>- XDR-TB</li> <li>- <i>Aspergillus</i> spp (including <i>fumigatus</i> and <i>flavus</i>)</li> <li>- <i>Candida</i> spp. (including <i>albicans</i> and <i>auris</i>).</li> </ul>
Syndrome	<ul style="list-style-type: none"> <li>- Unassigned</li> <li>- General/overall</li> <li>- Bloodstream infection/sepsis</li> <li>- Pneumonia/respiratory tract</li> <li>- Gastrointestinal infection</li> <li>- Urinary tract infection</li> <li>- Skin and soft tissue</li> <li>- Central nervous system infection</li> <li>- Sexually Transmitted Infection</li> <li>- TB-general/unspecified</li> <li>- TB-pulmonary</li> <li>- TB-extrapulmonary</li> <li>- Other</li> </ul>
Sector	<ul style="list-style-type: none"> <li>- Human health sector</li> <li>- One health (intersection/overlapping between animal, environment and human health sector)</li> </ul>
Topic	<ul style="list-style-type: none"> <li>- Unassigned</li> <li>- General/overall</li> <li>- AMR National Action Plans and Monitoring &amp; Evaluation</li> <li>- AMR surveillance</li> <li>- Antimicrobial consumption surveillance</li> </ul>

	<ul style="list-style-type: none"> <li>- AMR One Health</li> <li>- Antimicrobial Use/AMR Stewardship/Essential Medicines</li> <li>- Antimicrobial R&amp;D</li> <li>- AMR awareness</li> <li>- Diagnostics (including R&amp;D)</li> <li>- Infection Prevention and Control</li> <li>- Water, Sanitation, Hygiene and Health</li> <li>- Immunization/Vaccine (including Product &amp; Delivery Research)</li> <li>- Food safety/food borne diseases</li> <li>- Sexually Transmitted Infections</li> <li>- TB Prevention, Diagnosis, Treatment, Care &amp; Innovation</li> <li>- Newborn health</li> <li>- Health systems strengthening/Universal Health Coverage/Policy and regulatory</li> </ul>
<b>Research-question level attributes</b>	
Theme	<ul style="list-style-type: none"> <li>- Prevention (subcategories for CAI and HAI, immunization, IPC, other)</li> <li>- Diagnosis</li> <li>- Care &amp; treatment (subcategories: CAI and HAI)</li> <li>- Unassigned</li> </ul>
Domain	<ul style="list-style-type: none"> <li>- Descriptive (subcategories: measuring the burden; understanding risk factors; measuring prevalence of exposure to risk factors; Evaluating the efficacy and effectiveness of interventions in place; measuring prevalence of coverage of interventions in place)</li> <li>- Delivery (subcategories: Health policy analysis; Health system structure analysis; Financing/costs analysis; Human resources; Provision/infrastructure; Operations research; Responsiveness/recipients)</li> <li>- Development (subcategories: acceptability, affordability, deliverability/feasibility, sustainability)</li> <li>- Discovery (subcategories: medicines, diagnostics, vaccines, digital health technology, other preventive tools, other)</li> <li>- Unassigned</li> </ul>
Area	<ul style="list-style-type: none"> <li>- Epidemiology (including drivers, prevalence and burden)</li> <li>- Pharmacological and clinical</li> <li>- Behavioural and social science</li> <li>- Health economics/cost-effectiveness</li> <li>- Legislation and regulation</li> </ul>

Abbreviations: AMR: antimicrobial resistance; CAI: community-acquired infection; HAI: healthcare-associated infection; HIC: high-income country; ICU: intensive care unit; IPC: infection prevention and control; LIC: low-income country; LMIC: low- and middle-income country; MIC: middle-income country MDR-TB: multidrug-resistant tuberculosis; PPL: WHO priority pathogen list; Pre-XDR-TB: pre-extensively drug-resistant tuberculosis; RR-TB:

rifampicin-resistant tuberculosis; R&D: research and development; TB: tuberculosis; XDR-TB: extensively drug-resistant tuberculosis