

Full search strings

Database: Medline (Ovid MEDLINE® Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE® Daily and Ovid MEDLINE®) 1946 to present

Search Strategy:

-
- 1 exp Drug Resistance, Bacterial/
 - 2 (AMR or ESBL or VRE or CPE or CRE or CRO or MDR or KPC).ti,ab.
 - 3 (anti-bacterial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 4 (anti-biotic* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 5 (anti-microbial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 6 (antibacterial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 7 (antibiotic* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 8 (antimicrobial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 9 (bacteria* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 10 (("multi-drug" or drug) adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 11 (resistan* adj3 (trend* or distribution* or pattern* or "community-level" or "population-level")).ti,ab.
 - 12 (resistan* adj3 (detect* or monitor* or report* or surveillan*)).ti,ab.
 - 13 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12

Annotation: AMR concept

- 14 exp waste water/
- 15 exp Environmental Monitoring/
- 16 Waste Disposal, Fluid/
- 17 Medical Waste Disposal/
- 18 (sewer* or sewershed* or watershed* or "septic tank" or septage).ti,ab.
- 19 (wastewater* or "waste-water*" or sewage* or influent* or effluent* or "untreated waste*" or "raw waste*" or "raw inflow*" or "untreated inflow*").ti,ab.
- 20 ("water-treatment" or "sewage treatment work*" or STW* or "wastewater treatment plant*" or WWTP* or "sewage treatment plant*" or STP* or WWTW* or "wastewater treatment work*" or "waste-water treatment plant*" or "waste-water treatment work*").ti,ab.
- 21 (water* adj3 (sample* or specimen*)).ti,ab.
- 22 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21

Annotation: wastewater concept

- 23 exp Bacteriological Techniques/
- 24 exp Population Surveillance/
- 25 whole genome sequencing/ or Metagenomics/ or high-throughput nucleotide sequencing/
- 26 sequence alignment/ or phylogeny/ or molecular epidemiology/
- 27 Water Microbiology/
- 28 Drug Prescriptions/
- 29 Tandem Mass Spectrometry/ or Chromatography, Liquid/
- 30 cross-sectional studies/ or Longitudinal Studies/
- 31 epidemiologic research design/ or epidemiological monitoring/
- 32 (longitudinal or "cross-sectional" or spatial or geospatial or quantitative evaluation).ti,ab.
- 33 ("antibiotic-residue*" or "antibiotic-compound*").ti,ab.
- 34 ((antibiotic or anti-biotic or antibacterial or anti-bacterial or antimicrobial or anti-microbial) adj3 (quantit* or concentration* or use* or usage*)).ti,ab.

35 ("disc-diffusion" or "selective media*" or "antimicrobial susceptibility testing" or AST or "chromogenic" or PCR or "polymerase chain reaction" or "PFGE pulsed field gel electrophoresis" or "Multilocus sequence typing" or MLST).ti,ab.

36 (autosampler or "24-h composite").ti,ab.

37 chemical analys*.ti,ab.

38 ("liquid chromatography" or "tandem mass spectrometry" or "LC-MS/MS" or "solid-phase extraction*" or "liquid chromatography-tandem mass spectrometry").ti,ab.

39 (phylogen* or "sequence analys*" or "high-throughput nucleotide sequencing" or "DNA sequen*" or "whole-genome sequenc*" or WGS* or "HiSeq" or "molecular-epidemiolog*" or metagenom* or "Hi-C").ti,ab.

40 (surveillance or "early warning*" or epidemiolog* or monitor* or "public health").ti,ab.

41 ((antibiotic or anti-biotic or antibacterial or anti-bacterial or antimicrobial or anti-microbial) adj3 prescri*).ti,ab.

42 ((associat* or compar*) adj3 (genotyp* or prescri* or "DNA sequen*" or trend* or distribution*)).ti,ab.

43 (local* adj3 (clinic* or hospital* or isolate* or strain* or communit*)).ti,ab.

44 ((associat* or compar*) adj3 (time* or location* or geographic* or region* or communit*)).ti,ab.

45 (relat* adj3 (isolate* or strain* or cluster*)).ti,ab.

46 ((epidemiolog* or environment* or sentinel or domestic or communit* or population or "public health") adj3 (surveillance or monitor* or report* or detect*)).ti,ab.

47 ("community-level" adj3 (trend* or distribution* or detect* or monitor* or report* or surveillan* or epidemiolog*)).ti,ab.

48 ("population-level" adj3 (trend* or distribution* or detect* or monitor* or report* or surveillan* or epidemiolog*)).ti,ab.

49 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48

Annotation: methods / surveillance

50 exp Bacteria/

51 ("escherichia coli" or "e. coli" or "e.coli" or "e coli" or klebsiella* or citrobacter* or enterobacter* or gram-negative*).ti,ab.

52 50 or 51

Annotation: Bacteria concept

53 13 and 22 and 49 and 52

Annotation: Combined concepts

54 limit 53 to english language

Database: Embase 1974 to present

Search Strategy:

1 exp antibiotic resistance/

2 (AMR or ESBL or VRE or CPE or CRE or CRO or MDR or KPC).ti,ab.

3 (anti-bacterial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.

4 (anti-biotic* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.

5 (anti-microbial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.

6 (antibacterial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.

7 (antibiotic* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.

8 (antimicrobial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.

9 (bacteria* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.

10 (("multi-drug" or drug) adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.

11 (resistan* adj3 (trend* or distribution* or pattern* or "community-level" or "population-level")).ti,ab.

12 (resistan* adj3 (detect* or monitor* or report* or surveillan*)).ti,ab.

13 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12

14 exp waste water/

15 exp Environmental Monitoring/

16 Waste Disposal, Fluid/

17 Medical Waste Disposal/

18 (sewer* or sewershed* or watershed* or "septic tank" or septage).ti,ab.

19 (wastewater* or "waste-water*" or sewage* or influent* or effluent* or "untreated waste*" or "raw waste*" or "raw inflow*" or "untreated inflow*").ti,ab.

20 ("water-treatment" or "sewage treatment work*" or STW* or "wastewater treatment plant*" or WWTP* or "sewage treatment plant*" or STP* or WWTW* or "wastewater treatment work*" or "waste-water treatment plant*" or "waste-water treatment work*").ti,ab.

21 (water* adj3 (sample* or specimen*)).ti,ab.

22 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21

23 exp Bacteriological Techniques/

24 exp Population Surveillance/

25 whole genome sequencing/ or Metagenomics/ or high-throughput nucleotide sequencing/

26 sequence alignment/ or phylogeny/ or molecular epidemiology/

27 Water Microbiology/

28 Drug Prescriptions/

29 Tandem Mass Spectrometry/ or Chromatography, Liquid/

30 cross-sectional studies/ or Longitudinal Studies/

31 epidemiologic research design/ or epidemiological monitoring/

32 (longitudinal or "cross-sectional" or spatial or geospatial or quantitative evaluation).ti,ab.

33 ("antibiotic-residue*" or "antibiotic-compound*").ti,ab.

34 ((antibiotic or anti-biotic or antibacterial or anti-bacterial or antimicrobial or anti-microbial) adj3 (quantit* or concentration* or use* or usage*)).ti,ab.

35 ("disc-diffusion" or "selective media*" or "antimicrobial susceptibility testing" or AST or "chromogenic" or PCR or "polymerase chain reaction" or "PFGE pulsed field gel electrophoresis" or "Multilocus sequence typing" or MLST).ti,ab.

36 (autosampler or "24-h composite").ti,ab.

37 chemical analys*.ti,ab.

38 ("liquid chromatography" or "tandem mass spectrometry" or "LC-MS/MS" or "solid-phase extraction*" or "liquid chromatography-tandem mass spectrometry").ti,ab.

39 (phylogen* or "sequence analys*" or "high-throughput nucleotide sequencing" or "DNA sequen*" or "whole-genome sequenc*" or WGS* or "HiSeq" or "molecular-epidemiolog*" or metagenom* or "Hi-C").ti,ab.

40 (surveillance or "early warning*" or epidemiolog* or monitor* or "public health").ti,ab.

41 ((antibiotic or anti-biotic or antibacterial or anti-bacterial or antimicrobial or anti-microbial) adj3 prescri*).ti,ab.

42 ((associat* or compar*) adj3 (genotyp* or prescri* or "DNA sequen*" or trend* or distribution*)).ti,ab.

43 (local* adj3 (clinic* or hospital* or isolate* or strain* or communit*)).ti,ab.

44 ((associat* or compar*) adj3 (time* or location* or geographic* or region* or communit*)).ti,ab.

45 (relat* adj3 (isolate* or strain* or cluster*)).ti,ab.
 46 ((epidemiolog* or environment* or sentinel or domestic or communit* or population or "public health")
 adj3 (surveillance or monitor* or report* or detect*)).ti,ab.
 47 ("community-level" adj3 (trend* or distribution* or detect* or monitor* or report* or surveillan* or
 epidemiolog*)).ti,ab.
 48 ("population-level" adj3 (trend* or distribution* or detect* or monitor* or report* or surveillan* or
 epidemiolog*)).ti,ab.
 49 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 37 or 38 or 39 or 40 or 41 or
 42 or 43 or 44 or 45 or 46 or 47 or 48
 50 exp Bacteria/
 51 ("escherichia coli" or "e. coli" or "e.coli" or "e coli" or klebsiella* or citrobacter* or enterobacter* or
 gram-negative*).ti,ab.
 52 50 or 51 (1532136)
 53 13 and 22 and 49 and 52
 54 limit 53 to english language

Database: Global Health <1973 to 2019 Week 04>

Search Strategy:

 1 exp drug resistance/
 2 (AMR or ESBL or VRE or CPE or CRE or CRO or MDR or KPC).ti,ab.
 3 (anti-bacterial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 4 (anti-biotic* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 5 (anti-microbial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 6 (antibacterial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 7 (antibiotic* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 8 (antimicrobial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 9 (bacteria* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 10 (("multi-drug" or drug) adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 11 (resistan* adj3 (trend* or distribution* or pattern* or "community-level" or "population-level")).ti,ab.
 12 (resistan* adj3 (detect* or monitor* or report* or surveillan*)).ti,ab.
 13 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12
 14 exp waste water/
 15 monitoring/
 16 wastewater treatment/
 17 exp wastewater treatment plants/
 18 (sewer* or sewershed* or watershed* or "septic tank" or septage).ti,ab.
 19 (wastewater* or "waste-water*" or sewage* or influent* or effluent* or "untreated waste*" or "raw
 waste*" or "raw inflow*" or "untreated inflow*").ti,ab.
 20 ("water-treatment" or "sewage treatment work*" or STW* or "wastewater treatment plant*" or WWTP*
 or "sewage treatment plant*" or STP* or WWTW* or "wastewater treatment work*" or "waste-water
 treatment plant*" or "waste-water treatment work*").ti,ab.
 21 (water* adj3 (sample* or specimen*)).ti,ab.
 22 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21

23 bacteriology/
 24 exp surveillance/
 25 exp DNA sequencing/
 26 phylogeny/ or molecular epidemiology/
 27 Water Microbiology/
 28 prescriptions/
 29 Mass Spectrometry/ or Liquid chromatography/
 30 Longitudinal Studies/
 31 disease prevalence/ or disease distribution/
 32 (longitudinal or "cross-sectional" or spatial or geospatial or quantitative evaluation).ti,ab.
 33 ("antibiotic-residue*" or "antibiotic-compound*").ti,ab.
 34 ((antibiotic or anti-biotic or antibacterial or anti-bacterial or antimicrobial or anti-microbial) adj3
 (quantit* or concentration* or use* or usage*)).ti,ab.
 35 ("disc-diffusion" or "selective media*" or "antimicrobial susceptibility testing" or AST or "chromogenic"
 or PCR or "polymerase chain reaction" or "PFGE pulsed field gel electrophoresis" or "Multilocus sequence
 typing" or MLST).ti,ab.
 36 (autosampler or "24-h composite").ti,ab.
 37 chemical analys*.ti,ab.
 38 ("liquid chromatography" or "tandem mass spectrometry" or "LC-MS/MS" or "solid-phase extraction*" or "liquid chromatography-tandem mass spectrometry").ti,ab.
 39 (phylogen* or "sequence analys*" or "high-throughput nucleotide sequencing" or "DNA sequen*" or
 "whole-genome sequenc*" or WGS* or "HiSeq" or "molecular-epidemiolog*" or metagenom* or "Hi-C").ti,ab.
 40 (surveillance or "early warning*" or epidemiolog* or monitor* or "public health").ti,ab.
 41 ((antibiotic or anti-biotic or antibacterial or anti-bacterial or antimicrobial or anti-microbial) adj3
 prescri*).ti,ab.
 42 ((associat* or compar*) adj3 (genotyp* or prescri* or "DNA sequen*" or trend* or distribution*)).ti,ab.
 43 (local* adj3 (clinic* or hospital* or isolate* or strain* or communit*)).ti,ab.
 44 ((associat* or compar*) adj3 (time* or location* or geographic* or region* or communit*)).ti,ab.
 45 (relat* adj3 (isolate* or strain* or cluster*)).ti,ab.
 46 ((epidemiolog* or environment* or sentinel or domestic or communit* or population or "public health")
 adj3 (surveillance or monitor* or report* or detect*)).ti,ab.
 47 ("community-level" adj3 (trend* or distribution* or detect* or monitor* or report* or surveillan* or
 epidemiolog*)).ti,ab.
 48 ("population-level" adj3 (trend* or distribution* or detect* or monitor* or report* or surveillan* or
 epidemiolog*)).ti,ab.
 49 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 37 or 38 or 39 or 40 or 41 or
 42 or 43 or 44 or 45 or 46 or 47 or 48
 50 exp Bacteria/
 51 ("escherichia coli" or "e. coli" or "e.coli" or "e coli" or klebsiella* or citrobacter* or enterobacter* or
 gram-negative*).ti,ab.
 52 50 or 51
 53 13 and 22 and 49 and 52
 54 limit 53 to english language

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- 1 exp drug resistance/ (54946)
 - 2 (AMR or ESBL or VRE or CPE or CRE or CRO or MDR or KPC).ti,ab.
 - 3 (anti-bacterial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 4 (anti-biotic* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 5 (anti-microbial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 6 (antibacterial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 7 (antibiotic* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 8 (antimicrobial* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 9 (bacteria* adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 10 (("multi-drug" or drug) adj3 (resistan* or susceptib* or sensitiv* or tolerance*)).ti,ab.
 - 11 (resistan* adj3 (trend* or distribution* or pattern* or "community-level" or "population-level")).ti,ab.
 - 12 (resistan* adj3 (detect* or monitor* or report* or surveillan*)).ti,ab.
 - 13 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12
 - 14 exp waste water/
 - 15 monitoring/
 - 16 wastewater treatment/
 - 17 exp wastewater treatment plants/
 - 18 (sewer* or sewershed* or watershed* or "septic tank" or septage).ti,ab.
 - 19 (wastewater* or "waste-water*" or sewage* or influent* or effluent* or "untreated waste*" or "raw waste*" or "raw inflow*" or "untreated inflow*").ti,ab.
 - 20 ("water-treatment" or "sewage treatment work*" or STW* or "wastewater treatment plant*" or WWTP* or "sewage treatment plant*" or STP* or WWTW* or "wastewater treatment work*" or "waste-water treatment plant*" or "waste-water treatment work*").ti,ab.
 - 21 (water* adj3 (sample* or specimen*)).ti,ab.
 - 22 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21
 - 23 bacteriology/
 - 24 exp surveillance/
 - 25 exp DNA sequencing/
 - 26 phylogeny/ or molecular epidemiology/
 - 27 Water Microbiology/
 - 28 prescriptions/
 - 29 Mass Spectrometry/ or Liquid chromatography/
 - 30 Longitudinal Studies/
 - 31 disease prevalence/ or disease distribution/
 - 32 (longitudinal or "cross-sectional" or spatial or geospatial or quantitative evaluation).ti,ab.
 - 33 ("antibiotic-residue*" or "antibiotic-compound*").ti,ab.
 - 34 ((antibiotic or anti-biotic or antibacterial or anti-bacterial or antimicrobial or anti-microbial) adj3 (quantit* or concentration* or use* or usage*)).ti,ab.
 - 35 ("disc-diffusion" or "selective media*" or "antimicrobial susceptibility testing" or AST or "chromogenic" or PCR or "polymerase chain reaction" or "PFGE pulsed field gel electrophoresis" or "Multilocus sequence typing" or MLST).ti,ab.
 - 36 (autosampler or "24-h composite").ti,ab.
 - 37 chemical analys*.ti,ab.

38 ("liquid chromatography" or "tandem mass spectrometry" or "LC-MS/MS" or "solid-phase extraction*" or "liquid chromatography-tandem mass spectrometry").ti,ab.

39 (phylogen* or "sequence analys*" or "high-throughput nucleotide sequencing" or "DNA sequen*" or "whole-genome sequenc*" or WGS* or "HiSeq" or "molecular-epidemiolog*" or metagenom* or "Hi-C").ti,ab.

40 (surveillance or "early warning*" or epidemiolog* or monitor* or "public health").ti,ab.

41 ((antibiotic or anti-biotic or antibacterial or anti-bacterial or antimicrobial or anti-microbial) adj3 prescri*).ti,ab.

42 ((associat* or compar*) adj3 (genotyp* or prescri* or "DNA sequen*" or trend* or distribution*)).ti,ab.

43 (local* adj3 (clinic* or hospital* or isolate* or strain* or communit*)).ti,ab.

44 ((associat* or compar*) adj3 (time* or location* or geographic* or region* or communit*)).ti,ab.

45 (relat* adj3 (isolate* or strain* or cluster*)).ti,ab.

46 ((epidemiolog* or environment* or sentinel or domestic or communit* or population or "public health") adj3 (surveillance or monitor* or report* or detect*)).ti,ab.

47 ("community-level" adj3 (trend* or distribution* or detect* or monitor* or report* or surveillan* or epidemiolog*)).ti,ab.

48 ("population-level" adj3 (trend* or distribution* or detect* or monitor* or report* or surveillan* or epidemiolog*)).ti,ab.

49 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48

50 exp Bacteria/

51 ("escherichia coli" or "e. coli" or "e.coli" or "e coli" or klebsiella* or citrobacter* or enterobacter* or gram-negative*).ti,ab.

52 50 or 51

53 13 and 22 and 49 and 52

54 limit 53 to english language

Database: Scopus

Search Strategy:

(((TITLE-ABS-KEY (amr OR esbl OR vre OR cpe OR cre OR cro OR mdr OR kpc)) OR (TITLE-ABS-KEY (anti-bacterial* W/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY (anti-biotic* W/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY (anti-microbial* W/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY (antibacterial* W/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY (antibiotic* W/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY (antimicrobial* W/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY (bacteria* W/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY ("multi-drug" OR drug) W/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY (resistan* W/3 (trend* OR distribution* OR pattern* OR "community-level" OR "population-level")))) OR (TITLE-ABS-KEY (resistan* W/3 (detect* OR monitor* OR report* OR surveillan*))) AND ((TITLE-ABS-KEY (sewer* OR sewershed* OR watershed* OR "septic tank" OR septage OR wastewater* OR "waste-water*" OR sewage* OR influent* OR effluent* OR "untreated waste*" OR "raw waste*" OR "raw inflow*" OR "untreated inflow*" OR "water-treatment")))

OR (TITLE-ABS-KEY ("sewage treatment work*" OR stw* OR "wastewater treatment plant*" OR wwtp* OR "sewage treatment plant*" OR stp* OR wwtw* OR "wastewater treatment work*" OR "waste-water treatment plant*" OR "waste-water treatment work*")) OR (TITLE-ABS-KEY (water* W/3 (sample* OR specimen*)))) AND ((TITLE-ABS-KEY (longitudinal OR "cross-sectional" OR spatial OR geospatial OR quantitative AND evaluation OR "antibiotic-residue*" OR "antibiotic-compound*")) OR (TITLE-ABS-KEY (((antibiotic OR anti-biotic OR antibacterial OR anti-bacterial OR antimicrobial OR anti-microbial) W/3 (quantit* OR concentration* OR use* OR usage*)))) OR (TITLE-ABS-KEY ("disc-diffusion" OR "selective media*" OR "antimicrobial susceptibility testing" OR ast OR "chromogenic" OR pcr OR "polymerase chain reaction" OR "PFGE pulsed field gel electrophoresis" OR "Multilocus sequence typing" OR mlst)) OR (TITLE-ABS-KEY (autosampler OR "24-h composite" OR "chemical analys*" OR "liquid chromatography" OR "tandem mass spectrometry" OR "LC-MS/MS" OR "solid-phase extraction*" OR "liquid chromatography-tandem mass spectrometry")) OR (TITLE-ABS-KEY (phylogen* OR "sequence analys*" OR "high-throughput nucleotide sequencing" OR "DNA sequen*" OR "whole-genome sequenc*" OR wgs* OR "HiSeq" OR "molecular-epidemiolog*" OR metagenom* OR "Hi-C")) OR (TITLE-ABS-KEY (surveillance OR "early warning*" OR epidemiolog* OR monitor* OR "public health")) OR (TITLE-ABS-KEY (((antibiotic OR anti-biotic OR antibacterial OR anti-bacterial OR antimicrobial OR anti-microbial) W/3 prescri*))) OR (TITLE-ABS-KEY (((associat* OR compar*) W/3 (genotyp* OR prescri* OR "DNA sequen*" OR trend* OR distribution*)))) OR (TITLE-ABS-KEY ((local* W/3 (clinic* OR hospital* OR isolate* OR strain* OR communit*)))) OR (TITLE-ABS-KEY (((associat* OR compar*) W/3 (time* OR location* OR geographic* OR region* OR communit*)))) OR (TITLE-ABS-KEY ((relat* W/3 (isolate* OR strain* OR cluster*)))) OR (TITLE-ABS-KEY (((epidemiolog* OR environment* OR sentinel OR domestic OR communit* OR population OR "public health") W/3 (surveillance OR monitor* OR report* OR detect*)))) OR (TITLE-ABS-KEY (("community-level" W/3 (trend* OR distribution* OR detect* OR monitor* OR report* OR surveillan* OR epidemiolog*)))) OR (TITLE-ABS-KEY (("population-level" W/3 (trend* OR distribution* OR detect* OR monitor* OR report* OR surveillan* OR epidemiolog*))))) AND (TITLE-ABS-KEY ((bacteri* OR gram-positive* OR "escherichia coli" OR "e. coli" OR "e.coli" OR "e coli" OR klebsiella* OR citrobacter* OR enterobacter* OR gram-negative*))) AND (LIMIT-TO (LANGUAGE , "English"))

Database: Web of Science

Search Strategy:

((TITLE-ABS-KEY (amr OR esbl OR vre OR cpe OR cre OR cro OR mdx OR kpc)) OR (TITLE-ABS-KEY (anti-bacterial* near/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY (anti-biotic* near/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY (anti-microbial* near/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY (antibacterial* near/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY (antibiotic* near/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY (antimicrobial* near/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY (bacteria* near/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY ("multi-drug" OR drug) near/3 (resistan* OR susceptib* OR sensitiv* OR tolerance*))) OR (TITLE-ABS-KEY (resistan* near/3 (trend* OR distribution* OR pattern* OR

"community-level" OR "population-level"))) OR (TITLE-ABS-KEY (resistan* near/3 (detect* OR monitor* OR report* OR surveillan*)))) AND ((TITLE-ABS-KEY (sewer* OR sewershed* OR watershed* OR "septic tank" OR septage OR wastewater* OR "waste-water*" OR sewage* OR influent* OR effluent* OR "untreated waste*" OR "raw waste*" OR "raw inflow*" OR "untreated inflow*" OR "water-treatment")) OR (TITLE-ABS-KEY ("sewage treatment work*" OR stw* OR "wastewater treatment plant*" OR wwtp* OR "sewage treatment plant*" OR stp* OR wwtp* OR "wastewater treatment work*" OR "waste-water treatment plant*" OR "waste-water treatment work*")) OR (TITLE-ABS-KEY (water* near/3 (sample* OR specimen*)))) AND ((TITLE-ABS-KEY (longitudinal OR "cross-sectional" OR spatial OR geospatial OR quantitative AND evaluation OR "antibiotic-residue*" OR "antibiotic-compound*")) OR (TITLE-ABS-KEY (((antibiotic OR anti-biotic OR antibacterial OR anti-bacterial OR antimicrobial OR anti-microbial) near/3 (quantit* OR concentration* OR use* OR usage*)))) OR (TITLE-ABS-KEY ("disc-diffusion" OR "selective media*" OR "antimicrobial susceptibility testing" OR ast OR "chromogenic" OR pcr OR "polymerase chain reaction" OR "PFGE pulsed field gel electrophoresis" OR "Multilocus sequence typing" OR mlst)) OR (TITLE-ABS-KEY (autosampler OR "24-h composite" OR "chemical analys*" OR "liquid chromatography" OR "tandem mass spectrometry" OR "LC-MS/MS" OR "solid-phase extraction*" OR "liquid chromatography-tandem mass spectrometry")) OR (TITLE-ABS-KEY (phylogen* OR "sequence analys*" OR "high-throughput nucleotide sequencing" OR "DNA sequen*" OR "whole-genome sequenc*" OR wgs* OR "HiSeq" OR "molecular-epidemiolog*" OR metagenom* OR "Hi-C")) OR (TITLE-ABS-KEY (surveillance OR "early warning*" OR epidemiolog* OR monitor* OR "public health")) OR (TITLE-ABS-KEY (((antibiotic OR anti-biotic OR antibacterial OR anti-bacterial OR antimicrobial OR anti-microbial) near/3 prescri*))) OR (TITLE-ABS-KEY (((associat* OR compar*) near/3 (genotyp* OR prescri* OR "DNA sequen*" OR trend* OR distribution*)))) OR (TITLE-ABS-KEY ((local* near/3 (clinic* OR hospital* OR isolate* OR strain* OR communit*)))) OR (TITLE-ABS-KEY (((associat* OR compar*) near/3 (time* OR location* OR geographic* OR region* OR communit*)))) OR (TITLE-ABS-KEY ((relat* near/3 (isolate* OR strain* OR cluster*)))) OR (TITLE-ABS-KEY (((epidemiolog* OR environment* OR sentinel OR domestic OR communit* OR population OR "public health") near/3 (surveillance OR monitor* OR report* OR detect*)))) OR (TITLE-ABS-KEY (("community-level" near/3 (trend* OR distribution* OR detect* OR monitor* OR report* OR surveillan* OR epidemiolog*)))) OR (TITLE-ABS-KEY (("population-level" near/3 (trend* OR distribution* OR detect* OR monitor* OR report* OR surveillan* OR epidemiolog*))))) AND (TITLE-ABS-KEY ((bacteri* OR gram-positive* OR "escherichia coli" OR "e. coli" OR "e.coli" OR "e coli" OR klebsiella* OR citrobacter* OR enterobacter* OR gram-negative*))) AND (LIMIT-TO (LANGUAGE , "English"))
