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**Database: Ovid MEDLINE(R) ALL <1946 to June 15, 2023>**

**Search Strategy:**

- 1** amr.tw. (7603)
- 2** anti biotic\*.tw. (156)
- 3** antibiotic\*.tw. (407211)
- 4** Enterobacteria\*.tw. (27998)
- 5** entero bacteria\*.tw. (33)
- 6** antimicrobial\*.tw. (216434)
- 7** microbial\*.tw. (234617)
- 8** antibacter\*.tw. (103385)
- 9** anti bacter\*.tw. (5019)
- 10** Macrolide\*.tw. (18801)
- 11** betalactam\*.tw. (962)
- 12** beta lactam\*.tw. (51722)
- 13** resist\*.tw. (1264142)
- 14** coresist\*.tw. (182)
- 15** select\*.tw. (2310338)
- 16** resistome\*.tw. (1913)
- 17** coselect\*.tw. (240)
- 18** mobilome\*.tw. (338)
- 19** 13 or 14 or 15 or 16 or 17 or 18 (3423277)
- 20** ((resist\* or coresist\* or select\* or resistome\* or coselect\* or mobilome\* or susceptib\* or sensitiv\* or producing) adj2 (anti biotic\* or antibiotic\* or Enterobacteria\* or entero bacteria\* or ESBL\* or antimicrobial\* or microbial\* or antibacter\* or anti bacter\* or Macrolide\* or betalactam\* or beta lactam\*)).tw. (148372)
- 21** drug resistance, microbial/ or exp drug resistance, bacterial/ (160855)
- 22** freshwater\*.tw. (46310)
- 23** wastewater\*.tw. (75814)
- 24** effluent\*.tw. (42975)
- 25** wetland\*.tw. (15320)
- 26** aquatic\*.tw. (70652)
- 27** river\*.tw. (82587)
- 28** sediment\*.tw. (119921)
- 29** lake\*.tw. (48001)
- 30** sewage\*.tw. (24899)
- 31** influent\*.tw. (39213)
- 32** water canal\*.tw. (86)
- 33** natur\*.tw. (1313081)
- 34** environment\*.ti. (200934)
- 35** exp Environmental Microbiology/ (127910)
- 36** water\*.ti. (248638)
- 37** or/22-36 (2139249)
- 38** exp United Kingdom/ (389907)
- 39** ("national health service" or nhs).ti,ab,in. (266291)
- 40** (english not ((published or publication\* or translat\* or written or language\* or speak\* or literature or citation\*) adj5 english)).ti,ab. (49354)
- 41** (gb or "g.b." or britain or british not "british columbia") or uk or "u.k." or united kingdom\* or (england not "new england") or northern ireland\* or nothern irish\* or scotland\* or scottish\* or ((wales or "south wales") not "new south wales") or welsh\*).ti,ab,jw,in. (2438502)
- 42** (bath or "bath's" or ((birmingham not alabama\*) or ("birmingham's" not alabama\*) or bradford or "bradford's" or brighton or "brighton's" or bristol or "bristol's" or carlisle\* or "carlisle's" or (cambridge not (massachusetts\* or boston\* or harvard\*)) or ("cambridge's" not (massachusetts\* or boston\* or harvard\*)) or (canterbury not zealand\*) or ("canterbury's" not zealand\*) or chelmsford or "chelmsford's" or chester or "chester's" or chichester or "chichester's" or coventry or "coventry's" or derby or "derby's" or (durham not (carolina\* or nc)) or ("durham's" not (carolina\*

or nc)) or ely or "ely's" or exeter or "exeter's" or gloucester or "gloucester's" or hereford or "hereford's" or hull or "hull's" or lancaster or "lancaster's" or leeds\* or leicester or "leicester's" or (lincoln not nebraska\*) or ("lincoln's" not nebraska\*) or (liverpool not (new south wales\* or nsw)) or ("liverpool's" not (new south wales\* or nsw)) or ((london not (ontario\* or ont or toronto\*)) or ("london's" not (ontario\* or ont or toronto\*)) or manchester or "manchester's" or (newcastle not (new south wales\* or nsw)) or ("newcastle's" not (new south wales\* or nsw)) or norwich or "norwich's" or nottingham or "nottingham's" or oxford or "oxford's" or peterborough or "peterborough's" or plymouth or "plymouth's" or portsmouth or "portsmouth's" or preston or "preston's" or ripon or "ripon's" or salford or "salford's" or salisbury or "salisbury's" or sheffield or "sheffield's" or southampton or "southampton's" or st albans or stoke or "stoke's" or sunderland or "sunderland's" or truro or "truro's" or wakefield or "wakefield's" or wells or westminster or "westminster's" or winchester or "winchester's" or wolverhampton or "wolverhampton's" or (worchester not (massachusetts\* or boston\* or harvard\*)) or ("worchester's" not (massachusetts\* or boston\* or harvard\*)) or (york not ("new york\*" or ny or ontario\* or ont or toronto\*)) or ("york's" not ("new york\*" or ny or ontario\* or ont or toronto\*))))).ti,ab,in. (1738439)

**43** (bangor or "bangor's" or cardiff or "cardiff's" or newport or "newport's" or st asaph or "st asaph's" or st davids or swansea or "swansea's").ti,ab,in. (69941)

**44** (aberdeen or "aberdeen's" or dundee or "dundee's" or edinburgh or "edinburgh's" or glasgow or "glasgow's" or inverness or (perth not australia\*) or ("perth's" not australia\*) or stirling or "stirling's").ti,ab,in. (256032)

**45** (armagh or "armagh's" or belfast or "belfast's" or lisburn or "lisburn's" or londonderry or "londonderry's" or derry or "derry's" or newry or "newry's").ti,ab,in. (33619)

**46** or/38-45 (3059328)

**47** (exp africa/ or exp americas/ or exp antarctic regions/ or exp arctic regions/ or exp asia/ or exp oceania/) not (exp great britain/ or europe/) (3324690)

**48** 46 not 47 (2896484)

**49** 1 or 20 or 21 (249124)

**50** 37 and 48 and 49 (2057)

**51** limit 50 to yr="2000-Current" (1823)

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