**SEARCH STRATEGY**

|  |  |  |
| --- | --- | --- |
| **Databases searched for studies** | Results added to Covidence for screening | Comments (upload initial minus duplicates) |
| Pubmed | 1956 | 1948 +10 – 2 duplicates removed=1956 |
| Embase | 2567 | 2933 - 366 duplicates = 2567 |
| Cochrane CENTRAL in Cochrane Library | 21 | 29-8=21 |
| EBSCO (CINAHL; EconLit) | 439 | 748-309 duplicates=439 |
| Web of Science (as per protocol) | 181 | 231 from Core Collection: Uploaded to Covidence - 154 studies added to Title and abstract screening; 77 duplicates removed; SCIELO:  27 studies added to Title and abstract screening 3 duplicates removed (154+27=181)  o Web of Science Core Collection (1900-present; edition(s): Science Citation Index Expanded (1900-present), Emerging Sources Citation Index (2015-present) 231 o KCI-Korean Journal Database (1980-present) - no relevant o Russian Science Citation Index (2005-present) - no relevant o SciELO Citation Index (1997-present) - 30 |

**PubMed**

Date Search conducted: March 7th 2019

(((((((((((((((((((("Aminoglycosides"[Mesh]) OR "Lactams"[Mesh]) OR "Vancomycin"[Mesh]) OR "Tetracycline"[Mesh]) OR "Anti-Bacterial Agents"[Mesh]) OR "Lincosamides"[Mesh]) OR "Daptomycin"[Mesh]) OR "Lipoglycopeptides"[Mesh]) OR "Macrolides"[Mesh]) OR "Linezolid"[Mesh]) OR "Cycloserine"[Mesh]) OR "tedizolid"[Supplementary Concept]) OR "Fluoroquinolones"[Mesh]) OR "Nalidixic Acid"[Mesh]) OR "Oxolinic Acid"[Mesh]) OR "Sulfamethoxazole"[Mesh]) OR (antimicrobial\* AND anti-microbial\*[Title/Abstract] OR antibacterial\* AND anti-bacterial\*[Title/Abstract] OR antibiotic\* AND anti-biotic\*[Title/Abstract] OR "ss-lactam\*"[Title/Abstract] OR b-Lactam\*[Title/Abstract] OR beta-lactam\*[Title/Abstract] OR amdinocillin[Title/Abstract] OR amoxicillin\*[Title/Abstract] OR ampicillin[Title/Abstract] OR aztreonam[Title/Abstract] OR pivampicillin[Title/Abstract] OR penicillin\* AND carbenicillin[Title/Abstract] OR cloxacillin[Title/Abstract] OR dicloxacillin[Title/Abstract] OR oxacillin[Title/Abstract] OR piperacillin\*[Title/Abstract] OR pivmecillinam[Title/Abstract] OR ticarcillin\*[Title/Abstract] OR bacampicillin[Title/Abstract] OR carampicillin[Title/Abstract] OR floxacillin[Title/Abstract] OR flucloxacillin[Title/Abstract] OR cyclacillin[Title/Abstract] OR carbapenem\*[Title/Abstract] OR doripenem[Title/Abstract] OR ertapenem[Title/Abstract] OR imipenem\* AND thienamycin\*[Title/Abstract] OR meropenem\*[Title/Abstract] OR cephalosporin\*[Title/Abstract] OR cefadroxil[Title/Abstract] OR cefazolin[Title/Abstract] OR cephalexin[Title/Abstract] OR cefaclor[Title/Abstract] OR cepharin[Title/Abstract] OR cephradine[Title/Abstract] OR cefotetan[Title/Abstract] OR cefoxitin[Title/Abstract] OR cefprozil[Title/Abstract] OR cefuroxime[Title/Abstract] OR cefotiam[Title/Abstract] OR cefdinir[Title/Abstract] OR cefditoren[Title/Abstract] OR cefixime[Title/Abstract] OR cefmetazole[Title/Abstract] OR cefonicid[Title/Abstract] OR cefotaxime[Title/Abstract] OR cefpodoxime[Title/Abstract] OR ceftazidime[Title/Abstract] OR ceftibuten[Title/Abstract] OR ceftriaxone[Title/Abstract] OR cefmenoxime[Title/Abstract] OR cefoperazone[Title/Abstract] OR ceftizoxime[Title/Abstract] OR lincosamide\*[Title/Abstract] OR clindamycin[Title/Abstract] OR lincomycin[Title/Abstract] OR macrolide\*[Title/Abstract] OR azithromycin[Title/Abstract] OR clarithromycin[Title/Abstract] OR erythromycin[Title/Abstract] OR tetracycline\*[Title/Abstract] OR chlortetracycline[Title/Abstract] OR oxytetracycline[Title/Abstract] OR demeclocycline[Title/Abstract] OR doxycycline[Title/Abstract] OR minocycline[Title/Abstract] OR tigecycline[Title/Abstract] OR sulphamethoxazole\*[Title/Abstract] OR trimethoprim\*[Title/Abstract] OR fluoroquinolones[Title/Abstract] OR ciprofloxacin[Title/Abstract] OR delafloxacin[Title/Abstract] OR gemifloxacin[Title/Abstract] OR levofloxacin[Title/Abstract] OR moxifloxacin[Title/Abstract] OR norfloxacin[Title/Abstract] OR ofloxacin[Title/Abstract] OR enoxacin[Title/Abstract] OR pefloxacin[Title/Abstract] OR lomefloxacin[Title/Abstract] OR aminoglycoside\*[Title/Abstract] OR amikacin[Title/Abstract] OR gentamicin[Title/Abstract] OR kanamycin[Title/Abstract] OR neomycin, netilmicin[Title/Abstract] OR netrocin[Title/Abstract] OR plazomycin[Title/Abstract] OR streptomycin[Title/Abstract] OR tobramycin[Title/Abstract] OR nebramycin[Title/Abstract] OR lipoglycopeptide\*[Title/Abstract] OR teicoplanin[Title/Abstract] OR daptomycin[Title/Abstract] OR vancomycin[Title/Abstract] OR linezolid[Title/Abstract] OR cycloserine[Title/Abstract] OR tedizolid[Title/Abstract] OR rifamycin[Title/Abstract] OR bacitracin[Title/Abstract] OR capreomycin[Title/Abstract] OR chloramphenicol[Title/Abstract] OR clofazimine[Title/Abstract] OR colistimethate[Title/Abstract] OR colistin[Title/Abstract] OR dapsone[Title/Abstract] OR fosfomycin[Title/Abstract] OR "fusidic acid"[Title/Abstract] OR methenamine[Title/Abstract] OR metronidazole[Title/Abstract] OR nitrofurantoin[Title/Abstract] OR polymyxin\*[Title/Abstract] OR rifampin\*[Title/Abstract] OR secnidazole[Title/Abstract] OR tinidazole[Title/Abstract] OR carfecillin[Title/Abstract] OR cefamandole[Title/Abstract] OR cefatrizine[Title/Abstract] OR cefsulodin[Title/Abstract] OR cephacetrile[Title/Abstract] OR cephaloglycin[Title/Abstract] OR cephaloridine[Title/Abstract] OR cephalothin[Title/Abstract] OR cephamycins[Title/Abstract] OR dibekacin[Title/Abstract] OR dihydrostreptomycin[Title/Abstract] OR enviomycin[Title/Abstract] OR framycetin[Title/Abstract] OR josamycin[Title/Abstract] OR kitasamycin[Title/Abstract] OR lymecycline[Title/Abstract] OR mepartricin[Title/Abstract] OR methacycline[Title/Abstract] OR methicillin[Title/Abstract] OR mezlocillin[Title/Abstract] OR moxalactam[Title/Abstract] OR nafcillin[Title/Abstract] OR "nalidixic acid"[Title/Abstract] OR novobiocin[Title/Abstract] OR oleandomycin AND "oxolinic acid"[Title/Abstract] OR "pipemidic acid"[Title/Abstract] OR ribostamycin[Title/Abstract] OR rifabutin[Title/Abstract] OR rolitetracycline[Title/Abstract] OR roxithromycin[Title/Abstract] OR sisomicin[Title/Abstract] OR spectinomycin[Title/Abstract] OR spiramycin[Title/Abstract] OR streptogramin\*[Title/Abstract] OR quinupristin\*[Title/Abstract] OR dalfopristin\*[Title/Abstract] OR sulbactam[Title/Abstract] OR sulbenicillin[Title/Abstract] OR sulfamerazine[Title/Abstract] OR sulfamethoxypyridazine[Title/Abstract] OR talampicillin[Title/Abstract] OR thiamphenicol[Title/Abstract] OR troleandomycin[Title/Abstract])) AND (((("Hypersensitivity"[Mesh]) OR "Allergy and Immunology"[Mesh]) OR "Drug Hypersensitivity"[Mesh]) OR (allerg\*[Title/Abstract] OR hypersensitivit\*[Title/Abstract]))) AND ((((("Medical Records"[Mesh]) OR "Nursing Records"[Mesh]) OR "Self Report"[Mesh]) OR "Medical History Taking"[Mesh]) OR (label\*[Title/Abstract] OR document\*[Title/Abstract] OR report\*[Title/Abstract] OR record\*[Title/Abstract] OR chart\*[Title/Abstract] OR EHR[Title/Abstract] OR EMR[Title/Abstract] OR regist\*[Title/Abstract] OR history[Title/Abstract]))) AND ((prescrib\*[Title/Abstract] OR prescript\*[Title/Abstract] OR select\*[Title/Abstract] OR stay\*[Title/Abstract] OR "length of stay"[Title/Abstract] OR hospitali\*[Title/Abstract] OR death[Title/Abstract] OR mortality[Title/Abstract] OR morbidity[Title/Abstract] OR readmi\*[Title/Abstract] OR re-admi\*[Title/Abstract] OR cost\*[Title/Abstract] OR opportunistic[Title/Abstract] OR resist\*[Title/Abstract] OR "C. difficile"[Title/Abstract] OR "C. diff\*"[Title/Abstract] OR "Clostridium difficile"[Title/Abstract] OR "Clostridioides difficile"[Title/Abstract] OR CDI[Title/Abstract] OR C-diff[Title/Abstract] OR MRSA[Title/Abstract] OR VRE[Title/Abstract] OR duration[Title/Abstract] OR stewardship[Title/Abstract]) OR (((((("Inappropriate Prescribing"[Mesh]) OR "Practice Patterns, Physicians'"[Mesh]) OR "Drug Prescriptions"[Mesh]) OR "Medical Overuse"[Mesh]) OR (((("Costs and Cost Analysis"[Mesh]) OR "Economics, Pharmaceutical"[Mesh]) OR "Drug Utilization"[Mesh]) OR "Drug Utilization Review"[Mesh]) OR (((((((("Length of Stay"[Mesh]) OR "Patient Readmission"[Mesh]) OR "Mortality"[Mesh]) OR "mortality"[Subheading]) OR "Death"[Mesh]) OR "Morbidity"[Mesh]) OR "Epidemiology"[Mesh]) OR "epidemiology"[Subheading])) OR (("Patient Harm"[Mesh]) OR "Patient Reported Outcome Measures"[Mesh])))) NOT (animals[mh] NOT humans[mh])

**PubMed Inprocess**

(antibiotic OR antibiotics) AND allergy AND (label OR labelling) AND (prescribing OR selection OR stay OR hospitalization OR hospitalization OR mortality OR morbidity OR death OR readmission OR re-admission OR cost OR opportunistic OR outcome OR outcomes OR side-effects OR side-effect OR adverse OR harms) AND inprocess[sb]

**EMBASE**

Date FINAL search conducted: April 17th 2019

Sources Embase, MEDLINE

Query('inappropriate prescribing'/exp OR 'drug use'/exp OR 'health care cost'/exp OR 'utilization review'/exp OR 'length of stay'/exp OR 'hospital readmission'/exp OR 'epidemiology'/exp OR 'death'/exp OR 'patient harm'/exp OR 'treatment outcome'/exp OR prescrib\*:ti,ab,kw OR prescript\*:ti,ab,kw OR ((drug:ti,ab,kw OR treatment:ti,ab,kw) AND select\*:ti,ab,kw) OR stay\*:ti,ab,kw OR 'length of stay':ti,ab,kw OR hospitali\*:ti,ab,kw OR death:ti,ab,kw OR mortality:ti,ab,kw OR morbidity:ti,ab,kw OR readmi\*:ti,ab,kw OR 're-admi\*':ti,ab,kw OR cost\*:ti,ab,kw OR opportunistic:ti,ab,kw OR resist\*:ti,ab,kw OR 'c. difficile':ti,ab,kw OR 'c. diff\*':ti,ab,kw OR 'clostridium difficile':ti,ab,kw OR 'clostridioides difficile':ti,ab,kw OR cdi:ti,ab,kw OR 'c diff':ti,ab,kw OR mrsa:ti,ab,kw OR vre:ti,ab,kw OR duration:ti,ab,kw OR stewardship:ti,ab,kw OR (adverse:ti AND outcome\*:ti) OR (harmful:ti AND outcome\*:ti) OR impact:ti OR burden:ti) AND (antimicrobial\*:ti,ab,kw OR 'anti-microbial\*':ti,ab,kw OR antibacterial\*:ti,ab,kw OR 'anti-bacterial\*':ti,ab,kw OR antibiotic\*:ti,ab,kw OR 'ß-lactam\*':ti,ab,kw OR 'b lactam\*':ti,ab,kw OR 'beta-lactam\*':ti,ab,kw OR 'beta lactam\*' OR amdinocillin:ti,ab,kw OR amoxicillin\*:ti,ab,kw OR ampicillin:ti,ab,kw OR aztreonam:ti,ab,kw OR pivampicillin:ti,ab,kw OR penicillin\*:ti,ab,kw OR carbenicillin:ti,ab,kw OR cloxacillin:ti,ab,kw OR dicloxacillin:ti,ab,kw OR oxacillin:ti,ab,kw OR piperacillin\*:ti,ab,kw OR pivmecillinam:ti,ab,kw OR ticarcillin\*:ti,ab,kw OR bacampicillin:ti,ab,kw OR carampicillin:ti,ab,kw OR floxacillin:ti,ab,kw OR flucloxacillin:ti,ab,kw OR cyclacillin:ti,ab,kw OR carbapenem\*:ti,ab,kw OR doripenem:ti,ab,kw OR ertapenem:ti,ab,kw OR imipenem\*:ti,ab,kw OR thienamycin\*:ti,ab,kw OR meropenem\*:ti,ab,kw OR cephalosporin\*:ti,ab,kw OR cefadroxil:ti,ab,kw OR cefazolin:ti,ab,kw OR cephalexin:ti,ab,kw OR cefaclor:ti,ab,kw OR cepharin:ti,ab,kw OR cephradine:ti,ab,kw OR cefotetan:ti,ab,kw OR cefoxitin:ti,ab,kw OR cefprozil:ti,ab,kw OR cefuroxime:ti,ab,kw OR cefotiam:ti,ab,kw OR cefdinir:ti,ab,kw OR cefditoren:ti,ab,kw OR cefixime:ti,ab,kw OR cefmetazole:ti,ab,kw OR cefonicid:ti,ab,kw OR cefotaxime:ti,ab,kw OR cefpodoxime:ti,ab,kw OR ceftazidime:ti,ab,kw OR ceftibuten:ti,ab,kw OR ceftriaxone:ti,ab,kw OR cefmenoxime:ti,ab,kw OR cefoperazone:ti,ab,kw OR ceftizoxime:ti,ab,kw OR lincosamide\*:ti,ab,kw OR clindamycin:ti,ab,kw OR lincomycin:ti,ab,kw OR macrolide\*:ti,ab,kw OR azithromycin:ti,ab,kw OR clarithromycin:ti,ab,kw OR erythromycin:ti,ab,kw OR tetracycline\*:ti,ab,kw OR chlortetracycline:ti,ab,kw OR oxytetracycline:ti,ab,kw OR demeclocycline:ti,ab,kw OR doxycycline:ti,ab,kw OR minocycline:ti,ab,kw OR tigecycline:ti,ab,kw OR sulphamethoxazole\*:ti,ab,kw OR trimethoprim\*:ti,ab,kw OR fluoroquinolones:ti,ab,kw OR ciprofloxacin:ti,ab,kw OR delafloxacin:ti,ab,kw OR gemifloxacin:ti,ab,kw OR levofloxacin:ti,ab,kw OR moxifloxacin:ti,ab,kw OR norfloxacin:ti,ab,kw OR ofloxacin:ti,ab,kw OR enoxacin:ti,ab,kw OR pefloxacin:ti,ab,kw OR lomefloxacin:ti,ab,kw OR aminoglycoside\*:ti,ab,kw OR amikacin:ti,ab,kw OR gentamicin:ti,ab,kw OR kanamycin:ti,ab,kw OR neomycin,:ti,ab,kw OR netilmicin:ti,ab,kw OR netrocin:ti,ab,kw OR plazomycin:ti,ab,kw OR streptomycin:ti,ab,kw OR tobramycin:ti,ab,kw OR nebramycin:ti,ab,kw OR lipoglycopeptide\*:ti,ab,kw OR teicoplanin:ti,ab,kw OR daptomycin:ti,ab,kw OR vancomycin:ti,ab,kw OR linezolid:ti,ab,kw OR cycloserine:ti,ab,kw OR tedizolid:ti,ab,kw OR rifamycin:ti,ab,kw OR bacitracin:ti,ab,kw OR capreomycin:ti,ab,kw OR chloramphenicol:ti,ab,kw OR clofazimine:ti,ab,kw OR colistimethate:ti,ab,kw OR colistin:ti,ab,kw OR dapsone:ti,ab,kw OR fosfomycin:ti,ab,kw OR 'fusidic acid':ti,ab,kw OR methenamine:ti,ab,kw OR metronidazole:ti,ab,kw OR nitrofurantoin:ti,ab,kw OR polymyxin\*:ti,ab,kw OR rifampin\*:ti,ab,kw OR secnidazole:ti,ab,kw OR tinidazole:ti,ab,kw OR carfecillin:ti,ab,kw OR cefamandole:ti,ab,kw OR cefatrizine:ti,ab,kw OR cefsulodin:ti,ab,kw OR cephacetrile:ti,ab,kw OR cephaloglycin:ti,ab,kw OR cephaloridine:ti,ab,kw OR cephalothin:ti,ab,kw OR cephamycins:ti,ab,kw OR dibekacin:ti,ab,kw OR dihydrostreptomycin:ti,ab,kw OR enviomycin:ti,ab,kw OR framycetin:ti,ab,kw OR josamycin:ti,ab,kw OR kitasamycin:ti,ab,kw OR lymecycline:ti,ab,kw OR mepartricin:ti,ab,kw OR methacycline:ti,ab,kw OR methicillin:ti,ab,kw OR mezlocillin:ti,ab,kw OR moxalactam:ti,ab,kw OR nafcillin:ti,ab,kw OR 'nalidixic acid':ti,ab,kw OR novobiocin:ti,ab,kw OR oleandomycin:ti,ab,kw OR 'oxolinic acid':ti,ab,kw OR 'pipemidic acid':ti,ab,kw OR ribostamycin:ti,ab,kw OR rifabutin:ti,ab,kw OR rolitetracycline:ti,ab,kw OR roxithromycin:ti,ab,kw OR sisomicin:ti,ab,kw OR spectinomycin:ti,ab,kw OR spiramycin:ti,ab,kw OR streptogramin\*:ti,ab,kw OR quinupristin\*:ti,ab,kw OR dalfopristin\*:ti,ab,kw OR sulbactam:ti,ab,kw OR sulbenicillin:ti,ab,kw OR sulfamerazine:ti,ab,kw OR sulfamethoxypyridazine:ti,ab,kw OR talampicillin:ti,ab,kw OR thiamphenicol:ti,ab,kw OR troleandomycin:ti,ab,kw OR 'antibiotic agent'/exp) AND ('drug hypersensitivity'/exp OR allerg\*:ti,ab,kw OR hypersensitivit\*:ti,ab,kw) AND ('medical record'/exp OR 'self report'/exp OR label\*:ti,ab,kw OR report\*:ti OR record\*:ti OR hospital\*:ti OR overreport\*:ti OR 'over report\*':ti OR overdiagno\*:ti OR document\*:ti OR history:ti) NOT ([animals]/lim NOT [humans]/lim)

Mapped termsn/a

**Cochrane CENTRAL in Cochrane Library**

Date Search conducted: April 11th 2019

(antibiotic\* or anti?bacterial\* or penicillin\*) AND allerg\* AND label\*

**EBSCO (CINAHL; EconLit)**

Date FINAL search conducted: April 17th 2019

| **#** | **Query** | **Limiters/Expanders** | **Last Run Via** | **Results** |
| --- | --- | --- | --- | --- |
| S33 | S29 OR S32 | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 748 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S32 | S5 AND S8 AND S31 | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 301 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S31 | S9 OR S10 OR S30 | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 471,008 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S30 | AB ( label\*) OR TI ( label\* OR report\* OR record\* OR hospital\* OR overreport\* OR over-report\* OR overdiagno\* OR document\* OR history ) | Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases | 347,386 |
| Search Screen - Advanced Search |
| Database - CINAHL;EconLit |
| S29 | S27 AND S28 | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 625 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S28 | S5 AND S8 AND S12 | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 1,051 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S27 | S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 1,791,693 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S26 | (MH "Patient-Reported Outcomes") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 1,361 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S25 | (MH "Outcomes (Health Care)+") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 407,305 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S24 | (MH "Treatment Outcomes+") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 306,179 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S23 | (MH "Opportunistic Infections+") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 4,023 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S22 | (MH "Death+") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 44,630 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S21 | (MH "Epidemiology+") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 598,442 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S20 | (MH "Readmission") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 10,900 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S19 | (MH "Length of Stay") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 35,340 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S18 | (MH "Health Care Costs+") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 49,588 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S17 | (MH "Health Resource Utilization") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 15,705 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S16 | (MH "Utilization Review+") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 9,076 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S15 | (MH "Drug Utilization+") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 7,263 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S14 | (MH "Inappropriate Prescribing") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 1,919 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S13 | AB ( prescrib\* OR prescript\* OR ((drug OR treatment) AND select\*) OR stay\* OR “length of stay” OR hospitali\* OR death OR mortality OR morbidity OR readmi\* OR re-admi\* OR cost\* OR opportunistic OR resist\* OR “c. difficile” OR “c. diff\*” OR “clostridium difficile” OR “clostridioides difficile” OR CDI OR “c diff” OR MRSA OR VRE OR duration OR stewardship ) OR TI ( prescrib\* OR prescript\* OR ((drug OR treatment) AND select\*) OR stay\* OR “length of stay” OR hospitali\* OR death OR mortality OR morbidity OR readmi\* OR re-admi\* OR cost\* OR opportunistic OR resist\* OR “c. difficile” OR “c. diff\*” OR “clostridium difficile” OR “clostridioides difficile” OR CDI OR “c diff” OR MRSA OR VRE OR duration OR stewardship OR (adverse AND outcome) OR (harmful AND outcome\*) OR impact OR burden ) | Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases | 1,033,359 |
| Search Screen - Advanced Search |
| Database - CINAHL;EconLit |
| S12 | S9 OR S10 OR S11 | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 1,390,765 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S11 | AB ( label\* OR report\* OR record\* OR hospital\* OR overreport\* OR over-report\* OR overdiagno\* OR document\* OR history ) OR TI ( label\* OR report\* OR record\* OR hospital\* OR overreport\* OR over-report\* OR overdiagno\* OR document\* OR history ) | Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases | 1,325,719 |
| Search Screen - Advanced Search |
| Database - CINAHL;EconLit |
| S10 | (MH "Self Report+") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 62,048 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S9 | (MH "Medical Records+") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 90,111 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S8 | S6 OR S7 | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 31,255 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S7 | TI ( allerg\* OR hypersensitivit\* ) OR AB ( allerg\* OR hypersensitivit\* ) | Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases | 27,472 |
| Search Screen - Advanced Search |
| Database - CINAHL;EconLit |
| S6 | (MH "Drug Hypersensitivity+") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 5,565 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S5 | S1 OR S2 OR S3 | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 106,012 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S4 | S1 OR S2 | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 96,288 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |
| S3 | TI ( amdinocillin OR amoxicillin\* OR ampicillin OR aztreonam OR pivampicillin OR penicillin\* OR carbenicillin OR cloxacillin OR dicloxacillin OR oxacillin OR piperacillin\* OR pivmecillinam OR ticarcillin\* OR bacampicillin OR carampicillin OR floxacillin OR flucloxacillin OR cyclacillin OR carbapenem\* OR doripenem OR ertapenem OR imipenem\* OR thienamycin\* OR meropenem\* OR cephalosporin\* OR cefadroxil OR cefazolin OR cephalexin OR cefaclor OR cepharin OR cephradine OR cefotetan OR cefoxitin OR cefprozil OR cefuroxime OR cefotiam OR cefdinir OR cefditoren OR cefixime OR cefmetazole OR cefonicid OR cefotaxime OR cefpodoxime OR ceftazidime OR ceftibuten OR ceftriaxone OR cefmenoxime OR cefoperazone OR ceftizoxime OR lincosamide\* OR clindamycin OR lincomycin OR macrolide\* OR azithromycin OR clarithromycin OR erythromycin OR tetracycline\* OR chlortetracycline OR oxytetracycline OR demeclocycline OR doxycycline OR minocycline OR tigecycline OR sulphamethoxazole\* OR trimethoprim\* OR fluoroquinolones OR ciprofloxacin OR delafloxacin OR gemifloxacin OR levofloxacin OR moxifloxacin OR norfloxacin OR ofloxacin OR enoxacin OR pefloxacin OR lomefloxacin OR aminoglycoside\* OR amikacin OR gentamicin OR kanamycin OR neomycin, OR netilmicin OR netrocin OR plazomycin OR streptomycin OR tobramycin OR nebramycin OR lipoglycopeptide\* OR teicoplanin OR daptomycin OR vancomycin OR linezolid OR cycloserine OR tedizolid OR rifamycin OR bacitracin OR capreomycin OR chloramphenicol OR clofazimine OR colistimethate OR colistin OR dapsone OR fosfomycin OR “fusidic acid” OR methenamine OR metronidazole OR nitrofurantoin OR polymyxin\* OR rifampin\* OR secnidazole OR tinidazole OR carfecillin OR cefamandole OR cefatrizine OR cefsulodin OR cephacetrile OR cephaloglycin OR cephaloridine OR cephalothin OR cephamycins OR dibekacin OR dihydrostreptomycin OR enviomycin OR framycetin OR josamycin OR kitasamycin OR lymecycline OR mepartricin OR methacycline OR methicillin OR mezlocillin OR moxalactam OR nafcillin OR “nalidixic acid” OR novobiocin OR oleandomycin OR “oxolinic acid” OR “pipemidic acid” OR ribostamycin OR rifabutin OR rolitetracycline OR roxithromycin OR sisomicin OR spectinomycin OR spiramycin OR streptogramin\* OR quinupristin\* OR dalfopristin\* OR sulbactam OR sulbenicillin OR sulfamerazine OR sulfamethoxypyridazine OR talampicillin OR thiamphenicol OR troleandomycin ) OR AB ( amdinocillin OR amoxicillin\* OR ampicillin OR aztreonam OR pivampicillin OR penicillin\* OR carbenicillin OR cloxacillin OR dicloxacillin OR oxacillin OR piperacillin\* OR pivmecillinam OR ticarcillin\* OR bacampicillin OR carampicillin OR floxacillin OR flucloxacillin OR cyclacillin OR carbapenem\* OR doripenem OR ertapenem OR imipenem\* OR thienamycin\* OR meropenem\* OR cephalosporin\* OR cefadroxil OR cefazolin OR cephalexin OR cefaclor OR cepharin OR cephradine OR cefotetan OR cefoxitin OR cefprozil OR cefuroxime OR cefotiam OR cefdinir OR cefditoren OR cefixime OR cefmetazole OR cefonicid OR cefotaxime OR cefpodoxime OR ceftazidime OR ceftibuten OR ceftriaxone OR cefmenoxime OR cefoperazone OR ceftizoxime OR lincosamide\* OR clindamycin OR lincomycin OR macrolide\* OR azithromycin OR clarithromycin OR erythromycin OR tetracycline\* OR chlortetracycline OR oxytetracycline OR demeclocycline OR doxycycline OR minocycline OR tigecycline OR sulphamethoxazole\* OR trimethoprim\* OR fluoroquinolones OR ciprofloxacin OR delafloxacin OR gemifloxacin OR levofloxacin OR moxifloxacin OR norfloxacin OR ofloxacin OR enoxacin OR pefloxacin OR lomefloxacin OR aminoglycoside\* OR amikacin OR gentamicin OR kanamycin OR neomycin, OR netilmicin OR netrocin OR plazomycin OR streptomycin OR tobramycin OR nebramycin OR lipoglycopeptide\* OR teicoplanin OR daptomycin OR vancomycin OR linezolid OR cycloserine OR tedizolid OR rifamycin OR bacitracin OR capreomycin OR chloramphenicol OR clofazimine OR colistimethate OR colistin OR dapsone OR fosfomycin OR “fusidic acid” OR methenamine OR metronidazole OR nitrofurantoin OR polymyxin\* OR rifampin\* OR secnidazole OR tinidazole OR carfecillin OR cefamandole OR cefatrizine OR cefsulodin OR cephacetrile OR cephaloglycin OR cephaloridine OR cephalothin OR cephamycins OR dibekacin OR dihydrostreptomycin OR enviomycin OR framycetin OR josamycin OR kitasamycin OR lymecycline OR mepartricin OR methacycline OR methicillin OR mezlocillin OR moxalactam OR nafcillin OR “nalidixic acid” OR novobiocin OR oleandomycin OR “oxolinic acid” OR “pipemidic acid” OR ribostamycin OR rifabutin OR rolitetracycline OR roxithromycin OR sisomicin OR spectinomycin OR spiramycin OR streptogramin\* OR quinupristin\* OR dalfopristin\* OR sulbactam OR sulbenicillin OR sulfamerazine OR sulfamethoxypyridazine OR talampicillin OR thiamphenicol OR troleandomycin ) | Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases | 33,901 |
| Search Screen - Advanced Search |
| Database - CINAHL;EconLit |
| S2 | AB ( antimicrobial\* OR anti-microbial\* OR antibacterial\* OR anti-bacterial OR antibiotic\* OR “ß-lactam\*” OR “b lactam\*” OR “beta lactam\*” OR “beta-lactam\*” OR penicillin\* ) OR TI ( antimicrobial\* OR anti-microbial\* OR antibacterial\* OR anti-bacterial OR antibiotic\* OR “ß-lactam\*” OR “b lactam\*” OR “beta lactam\*” OR “beta-lactam\*” OR penicillin\* ) | Search modes - Boolean/Phrase | Interface - EBSCOhost Research Databases | 57,414 |
| Search Screen - Advanced Search |
| Database - CINAHL;EconLit |
| S1 | (MH "Antibiotics+") | Expanders - Apply related words; Apply equivalent subjects | Interface - EBSCOhost Research Databases | 64,226 |
| Search modes - Boolean/Phrase | Search Screen - Advanced Search |
|  | Database - CINAHL;EconLit |

**Web of Science**

Date Search conducted: April 12th 2019

**o Web of Science Core Collection** (1900-present; edition(s): Science Citation Index Expanded (1900-present), Emerging Sources Citation Index (2015-present)

|  |
| --- |
| Results: 205 (from Web of Science Core Collection)  TS=((antibiotic\* or anti-bacterial\* or antibacterial\* or penicillin\*) AND (allerg\* OR hypersensitivit\*) AND label\*)   Indexes=SCI-EXPANDED, ESCI Timespan=All years |
|  |
| Results: 34 (from Web of Science Core Collection)  TI=((antibiotic\* or anti-bacterial\* or antibacterial or penicillin\*) AND (allerg\* OR hypersensitivit\*) AND (label\* OR document\* OR report\* OR self-report OR record\* OR chart\* OR HER OR EMR OR regist\*OR history) AND (prescrib\* OR prescript\* OR select\* OR stay\* OR "length of stay" OR hospitali\* OR death OR mortality OR morbidity OR readmi\* or re-admi\* OR cost\* OR opportunistic OR resist\* OR C. difficile OR C. diff\* OR "Clostridium difficile" OR "Clostridioides difficile" OR CDI OR C-diff OR MRSA OR VRE OR duration OR stewardship))   Indexes=SCI-EXPANDED, ESCI Timespan=All years |
|  |
| Combined 205 results or 34 results |

o **KCI-Korean Journal Database** (1980-present) - no relevant results

|  |
| --- |
| Results: 30 (from KCI-Korean Journal Database)   You searched for: TOPIC: ((antibiotic\* or anti-bacterial\* or antibacterial or penicillin\*) AND (allerg\* OR hypersensitivit\*) AND (label\* OR document\* OR report\* OR self-report OR record\* OR chart\* OR HER OR EMR OR regist\*OR history) AND (prescrib\* OR prescript\* OR select\* OR stay\* OR "length of stay" OR hospitali\* OR death OR mortality OR morbidity OR readmi\* or re-admi\* OR cost\* OR opportunistic OR resist\* OR C. difficile OR C. diff\* OR "Clostridium difficile" OR "Clostridioides difficile" OR CDI OR C-diff OR MRSA OR VRE OR duration OR stewardship))   Timespan: All years. Indexes: KJD. |
|  |
| Results: 1 (from KCI-Korean Journal Database)   You searched for: TOPIC: ((antibiotic\* or anti-bacterial\* or antibacterial\* or penicillin\*) AND (allerg\* OR hypersensitivit\*) AND label\*)   Timespan: All years. Indexes: KJD. |
|  |
| Results: 30 (from KCI-Korean Journal Database)   You searched for: #3 OR #1   Timespan: All years. Indexes: KJD. |

o **Russian Science Citation Index** (2005-present) - no relevant results

|  |
| --- |
| Results: 3 (from Russian Science Citation Index)   You searched for: TS=((antibiotic\* or anti-bacterial\* or antibacterial\* or penicillin\*) AND (allerg\* OR hypersensitivit\*) AND label\*)   Timespan: All years. Indexes: RSCI. |
| Results: 3 (from Russian Science Citation Index)   You searched for: TS=((antibiotic\* or anti-bacterial\* or antibacterial or penicillin\*) AND (allerg\* OR hypersensitivit\*) AND (label\* OR document\* OR report\* OR self-report OR record\* OR chart\* OR HER OR EMR OR regist\*OR history) AND (prescrib\* OR prescript\* OR select\* OR stay\* OR "length of stay" OR hospitali\* OR death OR mortality OR morbidity OR readmi\* or re-admi\* OR cost\* OR opportunistic OR resist\* OR C. difficile OR C. diff\* OR "Clostridium difficile" OR "Clostridioides difficile" OR CDI OR C-diff OR MRSA OR VRE OR duration OR stewardship))   Timespan: All years. Indexes: RSCI. |

o **SciELO Citation Index** (1997-present) – 30

# 3 30 Results  
#2 OR #1   
Indexes=SCIELO Timespan=All years  
  
# 2  
1 Result  
TS=((antibiotic\* or anti-bacterial\* or antibacterial\* or penicillin\*) AND (allerg\* OR hypersensitivit\*) AND label\*)   
  
Indexes=SCIELO Timespan=All years  
  
# 1  
30 Results  
TS=((antibiotic\* or anti-bacterial\* or antibacterial or penicillin\*) AND (allerg\* OR hypersensitivit\*) AND (label\* OR document\* OR report\* OR self-report OR record\* OR chart\* OR HER OR EMR OR regist\*OR history) AND (prescrib\* OR prescript\* OR select\* OR stay\* OR "length of stay" OR hospitali\* OR death OR mortality OR morbidity OR readmi\* or re-admi\* OR cost\* OR opportunistic OR resist\* OR C. difficile OR C. diff\* OR "Clostridium difficile" OR "Clostridioides difficile" OR CDI OR C-diff OR MRSA OR VRE OR duration OR stewardship))   
  
Indexes=SCIELO Timespan=All years