**Supplementary data**

**Table S1.** List of ATC names and codes included in England AWaRe index

|  |  |  |  |
| --- | --- | --- | --- |
| **ATC name** | **ATC code** | **route** | **England AWaRe** |
| AMIKACIN | J01GB06 | P | Watch |
| AMOXICILLIN | J01CA04 | P | Access |
| AMOXICILLIN | J01CA04 | O | Access |
| AMOXICILLIN AND ENZYME INHIBITOR | J01CR02 | O | Watch |
| AMOXICILLIN AND ENZYME INHIBITOR | J01CR02 | P | Watch |
| AMPICILLIN | J01CA01 | P | Access |
| AMPICILLIN | J01CA01 | O | Access |
| AMPICILLIN COMBINATIONS | J01CA51 | P | Access |
| AZITHROMYCIN | J01FA10 | O | Watch |
| AZITHROMYCIN | J01FA10 | P | Watch |
| AZTREONAM | J01DF01 | I | Reserve |
| AZTREONAM | J01DF01 | P | Reserve |
| BEDAQUILINE | J04AK05 | O | Other |
| BENZATHINE BENZYLPENICILLIN | J01CE08 | P | Access |
| BENZYLPENICILLIN | J01CE01 | P | Access |
| BIAPENEM | J01DH05 | P | Watch |
| CAPREOMYCIN | J04AB30 | P | Other |
| CARUMONAM | J01DF02 | P | Other |
| CEFACLOR | J01DC04 | O | Watch |
| CEFADROXIL | J01DB05 | O | Watch |
| CEFALEXIN | J01DB01 | O | Watch |
| CEFAMANDOLE | J01DC03 | P | Watch |
| CEFAZOLIN | J01DB04 | P | Watch |
| CEFCAPENE | J01DD17 | O | Watch |
| CEFDINIR | J01DD15 | O | Watch |
| CEFDITOREN | J01DD16 | O | Watch |
| CEFEPIME | J01DE01 | P | Reserve |
| CEFETAMET | J01DD10 | O | Watch |
| CEFIXIME | J01DD08 | O | Watch |
| CEFMENOXIME | J01DD05 | P | Watch |
| CEFODIZIME | J01DD09 | P | Watch |
| CEFOPERAZONE | J01DD12 | P | Watch |
| CEFOPERAZONE AND ENZYME INHIBITOR | J01DD62 | P | Watch |
| CEFOTAXIME | J01DD01 | P | Watch |
| CEFOTAXIME AND ENZYME INHIBITOR | J01DD51 | P | Watch |
| CEFOXITIN | J01DC01 | P | Watch |
| CEFOZOPRAN | J01DE03 | P | Reserve |
| CEFPIRAMIDE | J01DD11 | P | Watch |
| CEFPIROME | J01DE02 | P | Reserve |
| CEFPODOXIME | J01DD13 | O | Watch |
| CEFPROZIL | J01DC10 | O | Watch |
| CEFRADINE | J01DB09 | P | Watch |
| CEFRADINE | J01DB09 | O | Watch |
| CEFSULODIN | J01DD03 | P | Watch |
| CEFTAROLINE\_FOSAMIL | J01DI02 | P | Reserve |
| CEFTAZIDIME | J01DD02 | P | Watch |
| CEFTAZIDIME AND BETA-LACTAMASE INHIBITOR | J01DD52 | P | Reserve |
| CEFTIBUTEN | J01DD14 | O | Watch |
| CEFTIZOXIME | J01DD07 | P | Watch |
| CEFTOBIPROLE | J01DI01 | P | Reserve |
| CEFTOLOZANE | J01DI54 | P | Reserve |
| CEFTRIAXONE | J01DD04 | P | Watch |
| CEFTRIAXONE AND ENZYME INHIBITOR | J01DD63 | P | Watch |
| CEFTRIAXONE COMBINATIONS | J01DD54 | P | Watch |
| CEFUROXIME | J01DC02 | P | Watch |
| CEFUROXIME | J01DC02 | O | Watch |
| CHLORAMPHENICOL | J01BA01 | O | Watch |
| CHLORAMPHENICOL | J01BA01 | P | Watch |
| CINOXACIN | J01MB06 | O | Watch |
| CIPROFLOXACIN | J01MA02 | O | Watch |
| CIPROFLOXACIN | J01MA02 | P | Watch |
| CLARITHROMYCIN | J01FA09 | P | Watch |
| CLARITHROMYCIN | J01FA09 | O | Watch |
| CLINDAMYCIN | J01FF01 | O | Watch |
| CLINDAMYCIN | J01FF01 | P | Watch |
| CLOFAZIMINE | J04BA01 | O | Other |
| CLOXACILLIN | J01CF02 | O | Access |
| CLOXACILLIN | J01CF02 | P | Access |
| CO-FLUAMPICIL | J01CR50 | P | Other |
| CO-FLUAMPICIL | J01CR50 | O | Other |
| COLISTIN | A07AA10 | O | Reserve |
| COLISTIN | J01XB01 | P | Reserve |
| COLISTIN | J01XB01 | I | Reserve |
| COLISTIN | J01XB01 | P | Reserve |
| CO-TRIMOXAZOLE | J01EE01 | P | Access |
| CO-TRIMOXAZOLE | J01EE01 | O | Access |
| CYCLOSERINE | J04AB01 | O | Other |
| DALBAVANCIN | J01XA04 | P | Reserve |
| DAPTOMYCIN | J01XX09 | P | Reserve |
| DELAMANID | J04AK06 | O | Other |
| DEMECLOCYCLINE | J01AA01 | O | Watch |
| DICLOXACILLIN | J01CF01 | O | Other |
| DICLOXACILLIN | J01CF01 | P | Other |
| DIRITHROMYCIN | J01FA13 | O | Watch |
| DORIPENEM | J01DH04 | P | Reserve |
| DOXYCYCLINE | J01AA02 | O | Access |
| DOXYCYCLINE | A01AB22 | O | Access |
| DOXYCYCLINE | J01AA02 | P | Access |
| ENOXACIN | J01MA04 | O | Watch |
| ERTAPENEM | J01DH03 | P | Reserve |
| ERYTHROMYCIN | J01FA01 | O | Watch |
| ERYTHROMYCIN | J01FA01 | P | Watch |
| ERYTHROMYCIN ETHYLSUCCINATE | J01FA01 | O | Watch |
| ETHAMBUTOL | J04AK02 | O | Other |
| ETHAMBUTOL | J04AK02 | P | Other |
| FAROPENEM | J01DI03 | O | Watch |
| FIDAXOMICIN | A07AA12 | O | Watch |
| FLEROXACIN | J01MA08 | O | Watch |
| FLEROXACIN | J01MA08 | P | Watch |
| FLUCLOXACILLIN | J01CF05 | O | Access |
| FLUCLOXACILLIN | J01CF05 | P | Access |
| FLUMEQUINE | J01MB07 | O | Watch |
| FLURITHROMYCIN | J01FA14 | O | Watch |
| FOSFOMYCIN | J01XX01 | P | Reserve |
| FOSFOMYCIN | J01XX01 | O | Access |
| FUSIDIC\_ACID | J01XC01 | O | Access |
| GARENOXACIN | J01MA19 | O | Watch |
| GATIFLOXACIN | J01MA16 | O | Watch |
| GATIFLOXACIN | J01MA16 | P | Watch |
| GEMIFLOXACIN | J01MA15 | O | Watch |
| GENERIC\_DETECLO | J01AA01 | O | Other |
| GENERIC\_RIFATER | J04AM05 | O | Other |
| GENTAMICIN | J01GB03 | P | Access |
| GREPAFLOXACIN | J01MA11 | O | Watch |
| IMIPENEM | J01DH51 | P | Reserve |
| ISONIAZID | J04AC01 | O | Other |
| ISONIAZID | J04AC01 | P | Other |
| JOSAMYCIN | J01FA07 | O | Watch |
| LATAMOXEF | J01DD06 | P | Watch |
| LEVOFLOXACIN | J01MA12 | P | Watch |
| LEVOFLOXACIN | J01MA12 | O | Watch |
| LINEZOLID | J01XX08 | P | Reserve |
| LINEZOLID | J01XX08 | O | Reserve |
| LOMEFLOXACIN | J01MA07 | O | Watch |
| LYMECYCLINE | J01AA04 | O | Watch |
| MEROPENEM | J01DH02 | P | Reserve |
| METHENAMINE\_HIPPURATE | J01XX05 | O | Other |
| METICILLIN | J01CF03 | P | Other |
| METRONIDAZOLE | P01AB01 | O | Access |
| METRONIDAZOLE | J01XD01 | P | Access |
| METRONIDAZOLE | P01AB01 | R | Access |
| METRONIDAZOLE | G01AF01 | V | Access |
| MIDECAMYCIN | J01FA03 | P | Watch |
| MINOCYCLINE | J01AA08 | O | Watch |
| MIOCAMYCIN | J01FA11 | O | Watch |
| MOXIFLOXACIN | J01MA14 | O | Watch |
| MOXIFLOXACIN | J01MA14 | P | Watch |
| NAFCILLIN | J01CF06 | P | Other |
| NALIDIXIC\_ACID | J01MB02 | O | Watch |
| NEOMYCIN | J01GB05 | O | Access |
| NETILMICIN | J01GB07 | O | Other |
| NITROFURANTOIN | J01XE01 | O | Access |
| NORFLOXACIN | J01MA06 | O | Watch |
| OFLOXACIN | J01MA01 | P | Watch |
| OFLOXACIN | J01MA01 | O | Watch |
| OLEANDOMYCIN | J01FA05 | O | Watch |
| ORITAVANCIN | J01XA05 | P | Reserve |
| OXACILLIN | J01CF04 | O | Other |
| OXACILLIN | J01CF04 | P | Other |
| OXOLINIC ACID | J01MB05 | O | Watch |
| OXYTETRACYCLINE | J01AA06 | O | Watch |
| PANIPENEM | J01DH55 | P | Watch |
| PAZUFLOXACIN | J01MA18 | P | Watch |
| PELFLOXACIN | J01MA03 | O | Watch |
| PELFLOXACIN | J01MA03 | P | Watch |
| PHENOXYMETHYLPENICILLIN | J01CE02 | O | Access |
| PIPEMIDIC ACID | J01MB04 | O | Watch |
| PIPERACILLIN | J01CA12 | P | Watch |
| PIPERACILLIN AND ENZYME INHIBITOR | J01CR05 | P | Watch |
| PIROMIDIC ACID | J01MB03 | O | Watch |
| PIVMECILLINAM | J01CA08 | O | Access |
| POLYMIXIN B | J01XB02 | P | Reserve |
| POLYMIXIN B | A07AA05 | O | Reserve |
| PRISTINAMYCIN | J01FG01 | O | Watch |
| PROCAINE BENZYLPENICILLIN | J01CE09 | P | Access |
| PRULIFLOXACIN | J01MA17 | O | Watch |
| PYRAZINAMIDE | J04AK01 | O | Other |
| QUINUPRISTIN | J01FG02 | P | Watch |
| RIFAMPICIN | J04AB02 | P | Other |
| RIFAMPICIN | J04AB02 | O | Other |
| ROKITAMYCIN | J01FA12 | O | Watch |
| ROSOXACIN | J01MB01 | O | Watch |
| ROXITHROMYCIN | J01FA06 | O | Watch |
| RUFLOXACIN | J01MA10 | O | Watch |
| SITAFLOXACIN | J01MA21 | O | Watch |
| SODIUM\_FUSIDATE | J01XC01 | P | Access |
| SODIUM\_FUSIDATE | J01XC01 | O | Access |
| SOLITHROMYCIN | J01FA16 | O | Watch |
| SPARFLOXACIN | J01MA09 | O | Watch |
| SPECTINOMYCIN | J01XX04 | P | Access |
| SPIRAMYCIN | J01FA02 | O | Watch |
| STREPTOMYCIN | J01GA01 | P | Other |
| SULFADIAZINE | J01EC02 | O | Other |
| SULFAMETHOXYPYRIDAZINE | J01ED05 | O | Other |
| SULFAPYRIDINE | J01EB04 | O | Other |
| SULFASALAZINE | A07EC01 | R | Other |
| TEDIZOLID | J01XX11 | O | Reserve |
| TEDIZOLID | J01XX11 | P | Reserve |
| TEICOPLANIN | J01XA02 | P | Watch |
| TELAVANCIN | J01XA03 | P | Reserve |
| TELITHROMYCIN | J01FA15 | O | Watch |
| TEMAFLOXACIN | J01MA05 | O | Watch |
| TEMOCILLIN | J01CA17 | P | Watch |
| TETRACYCLINE | J01AA07 | O | Access |
| TETRACYCLINE COMBINATIONS | J01AA20 | O | Watch |
| TICARCILLIN | J01CA13 | P | Watch |
| TICARCILLIN AND ENZYME INHIBITOR | J01CR03 | P | Watch |
| TIGECYCLINE | J01AA12 | P | Reserve |
| TINIDAZOLE | P01AB02 | O | Other |
| TOBRAMYCIN | J01GB01 | P | Watch |
| TOBRAMYCIN | J01GB01 | I | Watch |
| TRIMETHOPRIM | J01EA01 | O | Access |
| TRIMETHOPRIM | J01EA01 | P | Access |
| TROLEANDOMYCIN | J01FA08 | O | Watch |
| TROVAFLOXACIN | J01MA13 | O | Watch |
| TROVAFLOXACIN | J01MA13 | P | Watch |
| VANCOMYCIN | J01XA01 | P | Watch |
| VANCOMYCIN | A07AA09 | O | Watch |