Supplementary Information

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| **Multi\_lvl1\_label** |
| Diseases of the digestive system |
| Diseases of the respiratory system |
| Diseases of the skin and subcutaneous tissue |
| Infectious and parasitic diseases |
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| **Multi\_lvl2\_label** |
| Bacterial infection |
| Intestinal infection [135.] |
| Mycoses [4.] |
| Other infections; including parasitic [8.] |
| Respiratory infections |
| Skin and subcutaneous tissue infections [197.] |
| Viral infection |

Supplementary Table 1. Clinical Classification Systems categories used for analysis.

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| **Drug** |  |  |  |
| ABACAVIR | DALBAVANCIN | | MENINGOCOCCAL OLIGOSACCHARIDE CONJUGATE |
| ABACAVIR/DOLUTEGRAVIR/LAMIVUDINE | DALFOPRISTIN/QUINUPRISTIN | | MENINGOCOCCAL POLYSACCHARIDE |
| ABACAVIR/LAMIVUDINE | DAPSONE | | MENINGOCOCCAL POLYSACCHARIDE CONJUGATE |
| ACYCLOVIR | DAPTOMYCIN | | MEROPENEM |
| AMANTADINE | DARUNAVIR | | METHENAMINE |
| AMIKACIN | DASABUVIR/OMBITASVIR/PARITAPREVIR/RITONAVIR | | METRONIDAZOLE |
| AMOXICILLIN | DEMECLOCYCLINE | | METRONIDAZOLE/SODIUM CHLORIDE |
| AMOXICILLIN/CLAVULANATE | DEXAMETHASONE/NEOMYCIN/POLYMYXIN B | | MICAFUNGIN |
| AMPHOTERICIN B | DICLOXACILLIN | | MICONAZOLE |
| AMPICILLIN | DIDANOSINE | | MINOCYCLINE |
| AMPICILLIN/SULBACTAM | DIPHTHERIA TOXOID/PERTUSSIS VACCINE/TETANUS TOXOID | | MOXIFLOXACIN |
| ATAZANAVIR | DIPHTHERIA TOXOID/TETANUS TOXOID | | NAFCILLIN |
| ATAZANAVIR/COBICISTAT | DOLUTEGRAVIR | | NELFINAVIR |
| ATOVAQUONE | DOLUTEGRAVIR/RILPIVIRINE | | NEOMYCIN |
| AVIBACTAM/CEFTAZIDIME | DORAVIRINE | | NEVIRAPINE |
| AZITHROMYCIN | DORIPENEM | | NITAZOXANIDE |
| AZTREONAM | DOXYCYCLINE | | NITROFURANTOIN |
| BACITRACIN | EFAVIRENZ | | NYSTATIN |
| BACITRACIN/HYDROCORTISONE/NEOMYCIN/POLYMYXIN B | EFAVIRENZ/EMTRICITABINE/TENOFOVIR | | OFLOXACIN |
| BACITRACIN/NEOMYCIN/POLYMYXIN B | ELBASVIR/GRAZOPREVIR | | ORITAVANCIN |
| BACITRACIN/POLYMYXIN B | EMTRICITABINE | | OSELTAMIVIR |
| BENZOYL PEROXIDE/ERYTHROMYCIN | EMTRICITABINE/RILPIVIRINE/TENOFOVIR | | PENICILLIN |
| BICTEGRAVIR/EMTRICITABINE/TENOFOVIR | EMTRICITABINE/TENOFOVIR | | PENTAMIDINE ISETHIONATE |
| CASPOFUNGIN | ENTECAVIR | | PIPERACILLIN/TAZOBACTAM |
| CEFACLOR | ERTAPENEM | | POLYMYXIN B |
| CEFAZOLIN | ERYTHROMYCIN | | POLYMYXIN B/TRIMETHOPRIM |
| CEFAZOLIN/DEXTROSE | ETHAMBUTOL | | POSACONAZOLE |
| CEFAZOLIN/SODIUM CHLORIDE | ETRAVIRINE | | PYRAZINAMIDE |
| CEFDINIR | FAMCICLOVIR | | RABIES IMMUNE GLOBULIN,HUMAN |
| CEFEPIME | FIDAXOMICIN | | RALTEGRAVIR |
| CEFIXIME | FLUCONAZOLE | | RIBAVIRIN |
| CEFOTAXIME | FLUCYTOSINE | | RIFABUTIN |
| CEFOXITIN | FOSAMPRENAVIR | | RIFAMPIN |
| CEFOXITIN/DEXTROSE | FOSCARNET | | RIFAPENTINE |
| CEFPODOXIME PROXETIL | FOSFOMYCIN | | RIFAXIMIN |
| CEFTAROLINE | GANCICLOVIR | | RILPIVIRINE |
| CEFTAZIDIME | GATIFLOXACIN | | RITONAVIR |
| CEFTOLOZANE/TAZOBACTAM | GENTAMICIN | | SAQUINAVIR |
| CEFTRIAXONE | GENTAMICIN/PREDNISOLONE | | SILVER SULFADIAZINE |
| CEFTRIAXONE/DEXTROSE | GENTAMICIN/SODIUM CHLORIDE | | SOFOSBUVIR |
| CEFUROXIME | GLECAPREVIR/PIBRENTASVIR | | SOFOSBUVIR/VELPATASVIR |
| CEPHALEXIN | GRAMICIDIN/NEOMYCIN/POLYMYXIN B | | STAVUDINE (d4T) |
| CILASTATIN/IMIPENEM | HYDROCORTISONE/NEOMYCIN/POLYMYXIN B | | SULFAMETHOXAZOLE/TRIMETHOPRIM |
| CIPROFLOXACIN | ISAVUCONAZONIUM SULFATE | | TEDIZOLID |
| CIPROFLOXACIN/DEXAMETHASONE | ISONIAZID | | TENOFOVIR |
| CIPROFLOXACIN/DEXTROSE | ITRACONAZOLE | | TERBINAFINE |
| CIPROFLOXACIN/HYDROCORTISONE | KETOCONAZOLE | | TETRACYCLINE |
| CISATRACURIUM | LAMIVUDINE | | TIGECYCLINE |
| CLARITHROMYCIN | LAMIVUDINE/ZIDOVUDINE | | TOBRAMYCIN |
| CLINDAMYCIN | LEDIPASVIR/SOFOSBUVIR | | TRIMETHOPRIM |
| CLOTRIMAZOLE | LEVOFLOXACIN | | VALACYCLOVIR |
| COBICISTAT/DARUNAVIR | LINEZOLID | | VALGANCICLOVIR |
| COBICISTAT/ELVITEGRAVIR/EMTRICITABINE/TENOFOVIR | LOPINAVIR/RITONAVIR | | VANCOMYCIN |
| COLISTIMETHATE | MARAVIROC | | VORICONAZOLE |
|  |  |  | ZIDOVUDINE |

Supplementary Table 2. Relevant antimicrobials from the National Healthcare Safety Network standardized list included in the analysis.