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.