**Table S-3.** Drugs used as input variables for RNN model.

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| **Drugs** |

|  |  |  |
| --- | --- | --- |
| Acetami/Codeine - inter | Epinephrine - inter | Midazolam HCl - cont |
| Acetami/Hydrocodone - inter | Epoetin - inter | Midazolam HCl - inter |
| Acetaminophen - inter | Famotidine - inter | Milrinone - cont |
| Acetazolamide - inter | Fentanyl - cont | Montelukast Sodium - inter |
| Acyclovir - inter | Fentanyl - inter | Morphine - inter |
| Albumin - inter | Ferrous Sulfate - inter | Mycophenolate  Mofetl - inter |
| Albuterol - inter | Filgrastim - inter | Naloxone HCL - cont |
| Alteplase - inter | Fluconazole - inter | Nifedipine - inter |
| Amikacin - inter | Fluticasone - inter | Norepinephrine - cont |
| Aminophylline - cont | Fosphenytoin - inter | Nystatin - inter |
| Aminophylline - inter | Furosemide - cont | Olanzapine - inter |
| Amlodipine - inter | Furosemide - inter | Ondansetron - inter |
| Amoxicillin/clavulanic acid - inter | Gabapentin - inter | Oseltamivir - inter |
| Amoxicillin - inter | Gentamicin - inter | Oxcarbazepine - inter |
| Amphotericin B Lipid  Complex - inter | Glycopyrrolate - inter | Oxycodone - inter |
| Ampicillin/Sulbactam - inter | Heparin - cont | Pantoprazole - inter |
| Ampicillin - inter | Heparin - inter | Phenobarbital - inter |
| Aspirin - inter | Hydrocortisone - inter | Piperacillin /  Tazobactam - inter |
| Atropine - inter | Hydromorphone - cont | Potassium Chloride - inter |
| Azithromycin - inter | Hydromorphone - inter | Potassium Phosphate - inter |
| Baclofen - inter | Ibuprofen - inter | Prednisolone - inter |
| Basiliximab - inter | Immune Globulin - inter | Prednisone - inter |
| Budesonide - inter | Insulin - cont | Propofol - cont |
| Calcium Chloride - inter | Insulin - inter | Propofol - inter |
| Calcium Gluconate - inter | Ipratropium Bromide - inter | Racemic Epi - inter |
| Cefazolin - inter | Isradipine - inter | Ranitidine - inter |
| Cefepime - inter | Ketamine - inter | Risperidone - inter |
| Cefotaxime - inter | Ketorolac - inter | Rocuronium - inter |
| Ceftazidime - inter | Labetalol - inter | Sildenafil - inter |
| Ceftriaxone - inter | Lactobacillus - inter | Sodium Bicarbonate - inter |
| Cephalexin - inter | Lansoprazole - inter | Sodium Chloride - inter |
| Chlorothiazide - inter | Levalbuterol - inter | Sodium Phosphate - inter |
| Ciprofloxacin HCL - inter | Levetiracetam - inter | Spironolactone - inter |
| Cisatracurium - cont | Levocarnitine - inter | Sucralfate - inter |
| Clindamycin - inter | Levothyroxine Sodium - inter | Tacrolimus - inter |
| Clonazepam - inter | Lidocaine - inter | Tobramycin - inter |
| Clonidine HCl - inter | Lisinopril - inter | Topiramate - inter |
| Desmopressin - inter | Lorazepam - inter | Trimethoprim /  Sulfamethoxazole - inter |
| Dexamethasone - inter | Magnesium Sulfate - inter | Ursodiol - inter |
| Dexmedetomidine - cont | Mannitol - inter | Valganciclovir - inter |
| Diazepam - inter | Meropenem - inter | Valproic Acid - inter |
| Diphenhydramine HCl - inter | Methadone - inter | Vancomycin - inter |
| Dopamine - cont | Methylprednisolone - inter | Vasopressin - cont |
| Enalapril - inter | Metoclopramide - inter | Vecuronium - inter |
| Enoxaparin - inter | Metronidazole - inter | Vitamin K - inter |
| Epinephrine - cont | Micafungin - inter | Voriconazole - inter |

See Table S-5 for acronym expansions.