



**Mount
Sinai**

The Mount Sinai Hospital
Department of Pharmacy
One Gustave L. Levy Place
New York, N.Y. 10029

To: Pharmacists
From: Simone Muller, Pharm.D., BCPS
Date: Reissue: July 8, 2021
Re: **Maximum daily doses of select seizure medications: Re-issue**

In effort to improve patient safety, beginning December 8, 2017, doses of select seizure medications above the maximum recommended daily dose need Neurology Department Chair/designee approval (use the non-formulary list for providers) for adults and pediatric neurology attending/NP for pediatrics. All changes and approvals should be documented as an I-Vent.

| Medication Name | Maximum Recommended Dose Adults | Maximum recommended Dose - Pediatrics |
|--------------------------------------|---|---|
| AcetaZOLAMIDE | 30 mg/kg/day | 30 mg/kg/day up to 1000 mg/day |
| Brivaracetam | 400 mg/day | 5 mg/kg/day up to 400 mg/day |
| Cannabidiol (Epidiolex®) | 20 mg/kg/day | 20 mg/kg/day |
| Carbamazepine | 1600 mg/day | <6 yrs: 35 mg/kg/day 6-12 yrs: 1000 mg/day >12 yrs 1200 mg/day |
| CloBAZam | 80 mg/day | 2 mg/kg/day up to 60 mg/day |
| ESLicarbazepine | 1600 mg/day | 11-21 kg: 600 mg 22-31 kg: 800 mg 32-38 kg: 900 mg >38 kg: 1200 mg/day |
| Ethosuximide | 1500 mg/day | 60 mg/kg/day up to 2000 mg/day |
| Ethotoin (NF) | 3000 mg/day | 3000 mg/day |
| Ezogabine (NF) | 1200 mg/day | Not FDA-approved in patients <18 yrs |
| Felbamate (NF) | 3600 mg/day | 45 mg/kg/day up to 3600 mg/day |
| Fosphenytoin/IV phenytoin | 20 mg PE/kg per dose *confirm patient weight on all doses over 2000 mg | Loading dose: 20 mg PE/kg (max dose 1500 mg PE) Maintenance: 10 mg PE/kg/day (max 300 mg PE/day) |
| Gabapentin | 3600 mg/day | 50 mg/kg/day up to 3600 mg/day |
| Lacosamide | 600 mg/day | 20 mg/kg/day up to 400 mg/day |
| Lamotrigine | 700 mg/day | With valproate: 5 mg/kg/day up to 400 mg/day Without valproate: 15 mg/kg/day up to 700 mg/day |
| LeveTIRACETAM | 6000 mg/day | 100 mg/kg/day up to 4500 mg/day |
| Methsuximide (NF) | 1200 mg/day | 30 mg/kg/day up to 1200 mg/day |
| OXcarbazepine | 2400 mg/day | 60 mg/kg/day up to 2400 mg/day |
| Perampanel | 12 mg/day | ≥12 yrs: 12 mg/day |
| Phenytoin PO | 700 mg oral max per dose | 10 mg/kg/day up to 500 mg/day |
| Pregabalin | 800 mg/day | Not FDA-approved in patients <18 yrs |
| Primidone | 2000 mg/day | <8 yrs: 25 mg/kg/day up to 500 mg/dose ≥8 yrs: 2000 mg/day |
| Rufinamide | 3200 mg/day | 45 mg/kg/day up to 3200 mg/day |
| Stiripentol (NF) | 50 mg/kg/day | 50 mg/kg/day |
| TiaGABine (NF) | 56 mg/day | ≥12 yrs: 56 mg/day |
| Topiramate | 1600 mg/day | 50 mg/kg/day up to 1600 mg/day |
| Valproic acid and derivatives | 40 mg/kg per dose 60 mg/kg/day | 100 mg/kg/day |
| Vigabatrin (NF) | 3000 mg/day | 150 mg/kg/day up to 3000 mg/day |
| Zonisamide | 600 mg/day | 12 mg/kg/day up to 600 mg/day |

(NF), non-formulary