<table>
<thead>
<tr>
<th>Antiseizure Drug</th>
<th>Daily Dosage Range</th>
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<th>Uses</th>
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</thead>
<tbody>
<tr>
<td>Brivaracetam (Briviact) 2016</td>
<td>Adult: 50 – 200 mg  Child: not established</td>
<td>unknown – may involve synaptic vesicle protein 2A (SV2A)</td>
<td>Drowsiness, dizziness, fatigue, nausea, vomiting, loss of coordination, psychosis, hypersensitivity reactions (bronchospasm, angioedema)</td>
<td>partial-onset seizures with or without secondary generalization</td>
</tr>
<tr>
<td>Carbamazepine (Carbatrol, Tegretol, Tegretol XR) 1968</td>
<td>Adult: 800 - 1200 mg  Child: up to 1000 mg</td>
<td>sodium channel blocker</td>
<td>dizziness, drowsiness, headache, blurred/double vision, nausea, impotence, abnormal blood counts, rash, liver damage, cardiac arrhythmias, salt depletion</td>
<td>partial seizures, secondarily generalized tonic clonic seizures [NOT for absence or myoclonic seizures]</td>
</tr>
<tr>
<td>Clobazam (Onfi, Frisium) 2011</td>
<td>Adult: 10 - 30 mg  Child: 5 - 30 mg</td>
<td>GABA receptor agonist</td>
<td>drowsiness, dizziness, poor coordination, drooling, restlessness, aggressiveness, dependence, withdrawal symptoms, severe skin reactions</td>
<td>Lennox-Gastaut Syndrome, all seizure types</td>
</tr>
<tr>
<td>Clonazepam (Klonopin) 1975</td>
<td>Adult: 0.5 – 2 mg  Child: 0.01 – 0.2 mg/kg</td>
<td>GABA receptor agonist</td>
<td>drowsiness, dizziness, nausea, unsteadiness, irritability, memory/attention problems, hyperactivity (in children), depression, loss of appetite, blood or liver problems</td>
<td>absence &amp; myoclonic seizures, Lennox-Gastaut Syndrome, seizure clusters, prevention of seizures after auras, nocturnal seizures, seizures upon waking</td>
</tr>
<tr>
<td>Eslicarbazepine Acetate (Aptiom) 2013</td>
<td>Adult: 400 – 1200 mg  Child: not established</td>
<td>sodium channel blocker</td>
<td>dizziness, drowsiness, nausea, headache, double-vision, vomiting, fatigue, and loss of coordination, hypersensitivity reactions, salt depletion</td>
<td>partial-onset seizures with or without secondary generalization</td>
</tr>
<tr>
<td>Ethosuximide (Zarontin) 1960</td>
<td>Adult: 500 - 1500 mg  Child: 250 - 1500 mg</td>
<td>calcium channel blocker</td>
<td>gastrointestinal symptoms drowsiness, headache, fatigue, dizziness, behavior changes, insomnia, nervousness, rash, abnormal blood counts</td>
<td>absence seizures [NOT for tonic clonic, myoclonic, or partial seizures]</td>
</tr>
<tr>
<td>Ezogabine (Potiga) 2011</td>
<td>Adult: 600 – 1200 mg  Child: not established</td>
<td>potassium channel opener</td>
<td>urinary retention, skin discoloration, dizziness, neuropsychiatric symptoms, drowsiness, withdrawal seizures, psychosis, vision loss, QT interval lengthening</td>
<td>partial-onset seizures with or without secondary generalization</td>
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</table>
### MEDICATIONS FOR EPILEPSY

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| **Felbamate** (Felbatol) 1993 | Adult: 1200 – 3600 mg  
Child: 1200 mg | Multiple – glutamate, GABA, sodium and calcium channels | **Insomnia, nausea, headache, aplastic anemia, liver failure**  
**USE WITH CAUTION** | Partial and generalized seizures, Lennox-Gastaut syndrome |
| **Gabapentin** (Neurontin) 1993 | Adult: 900 – 5400 mg  
Child: 25 – 100 mg/kg | GABA analogue | Sleepiness, dizziness, clumsiness, fatigue, aggression & hyperactivity (in children), weight gain | Partial seizures with or without secondary generalization [NOT for primary generalized seizures] |
| **Lacosamide** (Vimpat) 2008 | Adult: 100 – 400 mg  
Child: 1–200 mg | Sodium channel modulator | Dizziness, headache, nausea or vomiting, double vision, sleepiness and fatigue, unsteadiness and shakiness, **heart, liver, or blood abnormalities** | Partial seizures with or without secondary generalization |
| **Lamotrigine** (Lamictal, Lamictal XR) 1994 | Adult: 100 – 700 mg  
Child: 1 – 200 mg | Sodium channel blocker | Dizziness, headache, insomnia, blurred/double vision, nausea, clumsiness, drowsiness, tics, skin rash, **severe skin conditions, severe hypersensitivity reactions** | Partial seizures; Lennox-Gastaut syndrome; absence seizures (in newly diagnosed children); generalized tonic clonic seizures; may worsen myoclonic or atonic seizures |
| **Levetiracetam** (Keppra, Keppra XR, Spritam) 1999 | Adult: 1000 – 3000 mg  
Child: 10 – 40 mg/kg | Unknown – may involve synaptic vesicle protein 2A (SV2A) | Drowsiness, fatigue, poor coordination, dizziness, infection, irritability, **behavioral abnormalities** | Partial seizures; myoclonic seizures; primary generalized tonic clonic seizures |
| **Oxcarbazepine** (Trileptal, Oxtellar XR) 2000 | Adult: 600 – 2400 mg  
Child: 6 – 51 mg/kg | Sodium channel blocker | Fatigue, headache, sleepiness, difficulty concentrating, nausea, dizziness, double vision, **severe skin conditions, hypersensitivity reactions, salt depletion** | Partial seizures, secondarily generalized tonic clonic seizures [NOT for absence or myoclonic seizures] |
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| Phenobarbital (Luminal, Solfoton) 1912 | Adult: 1.5 – 4 mg/kg  
Child: 2 – 8 mg/kg  
Adult: 250 – 500 mg  
Child: up to 25 mg/kg | GABA receptor agonist  
GABA receptor agonist | drowsiness, irritability, hyperactivity (children), behavioral problems, difficulty concentrating, depression, **hypersensitivity reactions** | all types of seizures  
neonatal seizures (Phenobarbital) |
| Primidone (Mysoline) 1954         | Adult: 200 – 600 mg  
Child: up to 300 mg  | sodium channel blocker | clumsiness, insomnia, confusion, drowsiness, slurred speech, nausea, rash, gum overgrowth, hairiness, vitamin deficiencies, thickening of features, **severe skin problems, lupus** | partial seizures,  
generalized tonic clonic seizures [NOT for absence, myoclonic seizures, or infantile spasms] |
| Phenytoin (Dilantin, Phenytek) 1939 | Adult: 200 – 600 mg  
Child: up to 300 mg  | sodium channel blocker | dizziness, imbalance, drowsiness, no serious side effects yet reported | partial seizures;  
secondarily generalized seizures [NOT for primary generalized seizures] |
| Pregabalin (Lyrica) 2004          | Adult: 150 – 600 mg  
Child: not established | GABA analogue | drowsiness, anxiety, confusion, imbalance, double vision, dizziness, irritability, gastrointestinal distress or nausea, weight gain, **serious neuropsychiatric events** | partial seizures |
| Perampanel (Fycompa) 2012         | Adult: 2 – 8 mg  
Child: not established | glutamate blocker | headache, dizziness, fatigue, drowsiness, double vision, tremor, **hypersensitivity reactions**, shortened QT interval | Lennox-Gastaut syndrome |
| Rufinamide (Banzel) 2008          | Adult: 400 – 3200 mg  
Child: 10 – 45 mg/kg | sodium channel modulator | tremor, dizziness, nervousness, difficulty concentrating, sleepiness, weakness, stupor | partial seizures;  
infantile spasms [may make non-convulsive generalized seizures worse] |
| Tiagabine (Gabitril) 1997         | Adult: 32 – 56 mg  
Child: 5 – 2 mg/kg | GABA reuptake inhibitor | | |

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| **Topiramate** (Topamax, Trokendi XR, Qudexy XR) 1996 | Adult: 200 – 400 mg  
Child: up to 25 mg/kg | Multiple — works on glutamate, GABA, and sodium and calcium channels | confusion, sleepiness, fatigue, dizziness, clumsiness, difficulty thinking or talking, decreased appetite/weight loss, kidney stones, glaucoma, psychosis | Lennox-Gastaut syndrome; partial seizures; generalized tonic clonic seizures; myoclonic seizures, infantile spasms |
| **Vigabatrin** (Sabril) 2009   | Adult: 2000 – 4000 mg  
Child: 50 mg/kg – 150 mg/kg | GABA transaminase inhibitor | drowsiness, fatigue, rash, psychosis, irreversible vision impairment in 25% of patients **USE WITH CAUTION** | infantile spasms (most effective in patients with tuberous sclerosis), partial seizures [may make absence and myoclonic seizures worse] |
| **Valproate/valproic acid/ divalproex sodium** (Depakene or Depakote) 1978 | Adult: up to 60 mg/kg  
Child: up to 60 mg/kg | works on GABA, and blocks sodium and calcium channels | nausea, vomiting, menstrual irregularities, hair loss, weight gain, tremor, **liver failure, pancreatitis**  
(Women who are considering pregnancy should ask their doctor about risks of valproate to the fetus) | partial seizures; absence seizures; generalized tonic clonic seizures; myoclonic seizures; infantile spasms; Lennox-Gastaut syndrome; atonic seizures |
| **Zonisamide** (Zonegran) 2000 | Adult: 100 – 600 mg  
Child: 2 – 12 mg/kg | sodium channel blocker | sleepiness, fatigue, loss of appetite/weight loss, depression, difficulty with concentrating and speech, unsteadiness, rash, kidney stones, abnormal reduction in perspiration | partial seizures, generalized tonic clonic seizures, absence seizures, myoclonic seizures, Lennox-Gastaut syndrome, infantile spasms |

The information provided on the medications listed above is not comprehensive, and there are other medications not listed. For more information on any medication, ask your doctor or pharmacist. You can also find out more about these and other antiepileptic drugs by calling Epilepsy Foundation of Michigan. **Never make any decisions about a medication without consulting your doctor.**

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