

## **VIGABATRIN:**

**Class:** Anticonvulsant

**Indications:** Treatment of infantile spasms; refractory complex partial seizures not controlled by usual treatments

**Available dosage form in the hospital:** 500MG TAB

### **Dosage:**

**Refractory complex partial seizures:** Oral: Initial: 500 mg twice daily; increase daily dose by 500 mg at weekly intervals based on response and tolerability. Recommended dose: 3 g/day. (**Note:** Canadian labeling suggests that initial doses up to 2 g/day may be considered in patients with severe seizures.)

**Note:** To taper, decrease dose by 1 g/day on a weekly basis

### **Geriatric**

Refractory complex partial seizures: Refer to adult dosing. Initiate at low end of dosage range; monitor closely for sedation and confusion.

### **Renal Impairment:**

**Note:** Renal function may be estimated using the Cockcroft-Gault formula: Adults:

- $Cl_{cr} > 50-80$  mL/minute: Decrease dose by 25%
- $Cl_{cr} > 30-50$  mL/minute: Decrease dose by 50%
- $Cl_{cr} > 10-30$  mL/minute: Decrease dose by 75%

### **Hepatic Impairment:**

No dosage adjustment provided in manufacturer's labeling; has not been studied. However, does not undergo appreciable hepatic metabolism

### **Common side effect:**

Central nervous system: Somnolence (adults 22% to 24%; infants 17% to 45%), headache (33%), fever (adults 4% to 5%; infants 19% to 29%), fatigue (23% to 28%), dizziness (21% to 24%), irritability (adults 10%; infants 16% to 23%), sedation (adults 2% to 4%; infants 17% to 19%), insomnia (infants 10% to 12%)

Dermatologic: Rash (infants 8% to 11%)

Gastrointestinal: Vomiting (adults 7%; infants 14% to 20%), constipation (adults 6% to 8%; infants 12% to 14%), diarrhea (10% to 13%)

Neuromuscular & skeletal: Tremor (14% to 15%)

Ocular: Visual field constriction ( $\geq 30\%$ ), nystagmus (13% to 15%), blurred vision (11% to 13%)

Otic: Otitis media (infants 10% to 44%)

Respiratory: Upper respiratory tract infection (adults 7% to 9%; infants 46% to 51%), bronchitis (infants 30%), pharyngitis (13% to 14%), pneumonia (infants 11% to 13%), nasal congestion (infants 4% to 13%)

Miscellaneous: Viral infection (infants 19% to 20%)

**Pregnancy Risk Factor:** C