

1246 topiramate

PHARMACOKINETICS

Peak 2-4 hr, protein binding 99%, metabolized by CYP3A4, terminal half-life 12 hr

INTERACTIONS

Increase: concentrations of tolvaptan—CYP3A4 inhibitors (efavirenz, fosamprenavir, quinine); P-gp inhibitors (cyclosporine, azithromycin, mefloquine, paliperidone, propafenone, quinidine, testosterone)

Decrease: concentration of tolvaptan—CYP3A4 inducers (carbamazepine, dexamethasone, etravirine, flutamide, griseofulvin, metyrapone, modafinil, nafcillin, nevirapine, oxcarbazepine, phenytoin, rifampin, rifabutin, rifapentine, topiramate)

Drug/Herb

Decrease: tolvaptan effect—CYP3A4 inducer (St. John's wort)

Drug/Food

• Grapefruit/grapefruit juice; do not use together

NURSING CONSIDERATIONS

Assess:

• Renal, hepatic function

Black Box Warning: Osmotic demyelination syndrome: frequent sodium vol status; overly rapid correction of sodium concentration (>12 mEq/L per 24 hr); may occur in alcoholism, severe malnutrition, advanced liver disease, syndrome of inappropriate antidiuretic hormone; correct sodium levels slowly, may result in dysarthria, mutism, dysphagia, coma, seizure, death

• CV status: ventricular fibrillation, hypertension; monitor B/P, pulse
• Monitor electrolytes (sodium, potassium)

Black Box Warning: Specialized care setting: needed so that neurologic status and sodium can be monitored

• **Liver injury:** fatigue, abdominal pain, dark urine, clay-colored stools, jaundice
• **Pregnancy/breastfeeding:** use only if benefits outweigh fetal risk; do not breastfeed

Evaluate:

• Therapeutic response: correction of serum sodium levels

Teach patient/family:

• About administration procedure and expected results; that product will be used for ≤30 days

• **To report difficulty swallowing, speaking, seizures, dizziness, drowsiness; embolism may be the cause**

• To drink fluid in response to thirst

• Not to use grapefruit juice

• To notify prescriber before using other products

• **To report right upper abdominal pain, nausea, vomiting, anorexia, dark urine, yellowing of skin, eyes (hepatic injury)**

• That product will be started or restarted in the hospital when monitoring is possible

• **To avoid pregnancy, breastfeeding while taking this product**

topiramate (Rx)

(toh-pire'ah-mate)

Qudexy XR, Topamax, Topamax Sprinkle, Trokendi XR

Func. class.: Anticonvulsant—miscellaneous

Chem. class.: Monosaccharide derivative

Do not confuse:

Topamax/Toprol XL

ACTION: May prevent seizure spread as opposed to an elevation of seizure threshold, increases GABA activity

USES: Partial seizures in adults and children 2-16 yr old; tonic-clonic seizures; seizures with Lennox-Gastaut syndrome; migraine prophylaxis

Unlabeled uses: Infantile spasms, bipolar disorder, alcohol dependence, absence seizures, neuropathic pain, cluster headaches, mania, bulimia nervosa

CONTRAINDICATIONS: Hypersensitivity, metabolic acidosis, pregnancy