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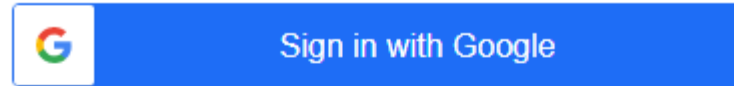
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Spotlight

Skill topics updates are now in a new, more discoverable format! Some skills have new ID numbers, which will impact interface functionality, such as persistent links, notes and bookmarks or alerts. If you are experience issues, please email customer support at dhcommunity@ebSCO.com

[Managing Chest Tubes in Adults](#)

[Changing a Central Venous Catheter Dressing in Adults](#)

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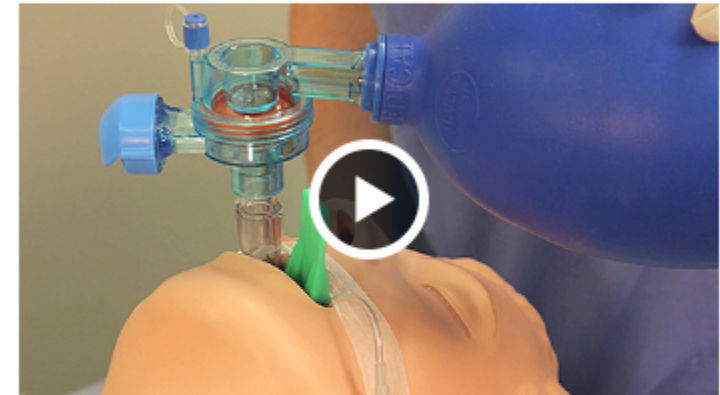
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Featured Videos



Procedure

Inserting a Laryngeal Mask Airway

Or browse through these features conveniently displayed on the landing page

Diseases

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Explore Evidence-based Information about Diseases and Conditions



Consult thousands of disease and condition topics that map to the nursing workflow and include the latest evidence known today. Topics focus on disease overviews, risk factors, prevention, diagnosis, comorbidities, prevalence in various populations, complications, treatment strategies, outcomes, and much more. [All Disease Topics](#)

Most Common Diseases



Chronic Obstructive Pulmonary Disease

COPD is the 4th leading cause of death worldwide and nurses should be aware of effective management of the disease to decrease health care costs. [View Topics](#)



Care Plans

Use these problem-based care plans, including impaired gas exchange and more, to effectively address patient problems and support patients in reaching the desired goals. [View Topics](#)



Heart Diseases


The body of evidence related to heart diseases supports many approaches, including the provision of aspirin on arrival for AMI, as discussed in the core measure. [View Topics](#)

Skills

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Skill Highlights



Skills and Skill Competency Checklists

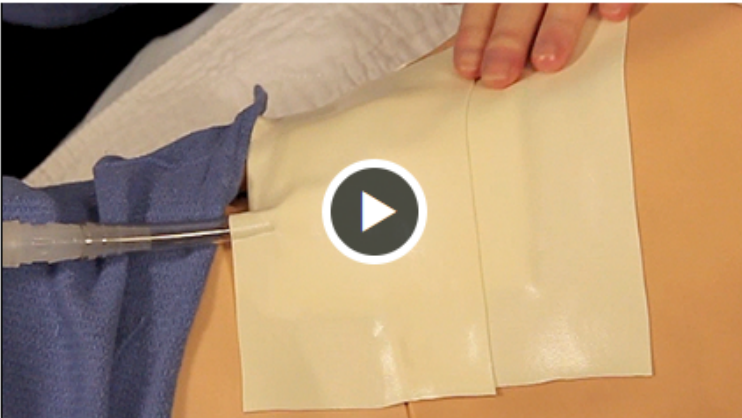
Skills are clinical topics detailing the necessary steps to achieve proficiency in specific nursing tasks. The checklists can be used to determine a nurse's proficiency in performing a needed skill. [View shorter versions of Checklists](#)



Nasogastric Tube Insertion

This suite of skills will assist navigation of this typically "blind" procedure which is very important to administer medication and provide nutrition to the patient. [View Topics](#)

Featured Videos



Procedure

Critical Skills

- [1. Inserting a Nasogastric Tube in an Adult Patient](#)
- [2. Changing a PICC Dressing in Adults](#)
- [3. Specimen Collection: Performing Nasopharyngeal Swabbing](#)
- [4. Managing Airway Obstruction Emergencies in Adults](#)
- [5. Obtaining an Oropharyngeal Throat Specimen](#)
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Drug Highlights



Antidepressants

These drugs can be part of a treatment plan for moderate or severe depression.



Antidiabetics

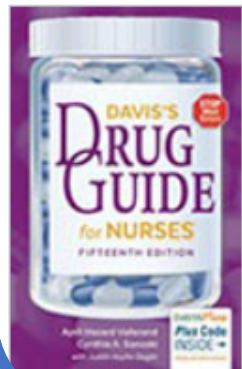
In combination with diet and exercise, antidiabetic agents can also help patients effectively manage their blood glucose level.



Beta Blockers

By blocking the sympathetic nervous system of the heart, beta blockers reduce stress on the heart and can be used to hypertension, myocardial infarction, and much more.

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AHFS Drug Information Essentials

This comprehensive reference includes over 11,700 drugs plus manufacturers of drug products; separate drug monographs for systemic topical and EENT drug formulations; drug interactions, cautions and toxicity; and extensive dosage and methods of administration.

Drug Monographs

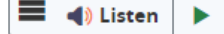
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Database: Nursing Reference Center Plus

Topiramate (TopAMAX)

Contents

- Identification
- Regulatory Status
- Description
- Common Usage/Primary Action
- Associated Laboratory/Diagnostic Tests
- Dosage and Administration
- Adverse Reactions
- Nursing Assessment/Implications
- Red Flags
- Food for Thought
- What to Tell the Patient
- Diversity, Equity, and Inclusion
- References
- Reviewer(s)



Quick Lesson

By: Lydia M. Uribe, PharmD, MLIS
Cinahl Information Systems, Glendale, CA
Edited by: Diane Pravikoff, RN, PhD, FAAN
Cinahl Information Systems, Glendale, CA

Identification

- *Therapeutic class:* Anticonvulsant, antimigraine agent^(3,4,5,6,7,8,9)
- *Type:* Sulfamate-substituted monosaccharide^(4,5,9)
- *Generic:* Topiramate (toe-PEER-uh-mate)
- *Brand(s) (drug company: region):* Epitomax, TopAMAX, Topimax (Janssen: Asia, Australia, Canada, Europe, Mexico, South America, U.K., U.S.); Qudexy XR (Upsher-Smith: U.S.); Trokendi XR (Supernus: U.S.)^(6,8,9)

Regulatory Status

- Topiramate requires a prescription but is not a controlled substance^(3,4,5,6,9)

Description

- Topiramate is available as oral tablets (IR; 25 mg, 50 mg, 100 mg, 200 mg), extended-release capsules (XR; 25 mg, 50 mg, 100 mg, 150 mg, 200 mg), and oral sprinkle capsules (IR; 15 mg, 25 mg, 50 mg)⁽⁸⁾

Common Usage/Primary Action

- Topiramate is U.S. FDA-approved as either monotherapy or adjunct therapy for tonic-clonic and partial-onset seizures (patients \geq 2 years), as adjunct therapy for Lennox-Gastaut syndrome (LGS) in patients \geq 2 years, and for migraine prophylaxis in patients \geq 12 years^(3,4,5,6,8,9)
- Off-label uses include bulimia, infantile spasm, essential tremor, and obesity/weight loss^(4,6,8)
- Topiramate's mechanism of action is unknown; it is thought to prevent seizure spread rather than raise seizure threshold^(4,8,9)

Associated Laboratory/Diagnostic Tests

- Obtain baseline serum bicarbonate for all patients; estimate glomerular filtration rate (GFR) or creatinine clearance (CrCl) for patients at high risk for renal impairment⁽⁸⁾
- Monitor CBC, serum electrolytes (particularly bicarbonate and chloride), and serum creatinine at baseline and periodically^(3,4,5,6,7,8,9)
- Obtain serum ammonia in patients presenting with unexplained lethargy, mental status changes, or vomiting^(5,6,7,8)

Dosage and Administration

- Tablets and sprinkle capsules are therapeutically equivalent and can be freely interchanged; bioequivalence of Qudexy XR and Trokendi XR has not been shown^(5,6,8)
- Unless otherwise stated, administer in 2 evenly divided doses without regard to meals. Tablets should be swallowed whole; sprinkles and Qudexy XR capsules can either be swallowed whole or opened, mixed with ~ 1 teaspoonful of soft food, swallowed immediately without chewing, and followed with water. Trokendi XR capsules must be swallowed whole^(3,4,5,6,7,8,9)
- Seizures:^(3,5,6,9)
 - Monotherapy:

Related Information

- Quick Lesson
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- Skills
- Drug Monographs
- Patient Handouts
- CEUs
- Legal Issues
- Books
- Journals

Find Similar Results using SmartText Searching.

Drug Monographs

Adverse Reactions




- Common adverse reactions (≥ 15%, most to least frequent) include paresthesias, somnolence, dizziness, cognitive dysfunction, fatigue, nervousness, anorexia, ataxia, psychomotor slowing, and dysgeusia^(5,8)
- Serious adverse reactions include erythema multiforme, toxic epidermal necrolysis, Stevens-Johnson syndrome, hyperammonemia (with/without encephalopathy), oligohidrosis, hyperthermia, metabolic acidosis, anemia, rash (in children), hepatitis, worsening seizures, maculopathy, acute myopia with angle-closure glaucoma, depression, **suicidal ideation**, nephrolithiasis, and pneumonia (in children)^(4,8)
- See *Drug Information Handbook* for additional adverse reactions

Nursing Assessment/Implications

- Monitor mental status for signs of **suicidal ideation**^(3,4,5,6,7,8,9)
- Monitor seizure frequency; hydration status; and for unexplained lethargy, vomiting, and altered mental status⁽⁷⁾
- Monitor for hyperthermia and reduced sweating, particularly in children and patients at risk for heat-related disorders⁽⁸⁾

Bright red font and red flags are used to highlight important factors

Red Flags

- 
- **Drug Interactions**
 - Alcohol: **Contraindicated** 6 hours before and after Trokendi XR capsules; altered release rate and associated erratic topiramate levels^(4,6,8,9)
 - Alcohol is **not recommended** with any other form of topiramate⁽⁶⁾
 - Carbonic anhydrase inhibitors (e.g., acetazolamide, dichlorphenamide): **Not recommended**; ↑ risk for nephrolithiasis, possible ↑ metabolic acidosis severity^(5,6,8)
 - Azelastine (nasal), bromazepam, bromperidol, carbinoxamine, doxylamine, opioids for cough (e.g., codeine, hydrocodone), orphenadrine, oxememazine, paraldehyde, thalidomide: **Not recommended**; ↑ CNS depression^(6,8)
 - Valproic acid: Possible ↑ risk for hypothermia, hyperammonemia, and encephalopathy; use **cautiously**^(3,5,6,8)
 - Metformin: Possible ↑ risk for metabolic acidosis; use **cautiously**^(6,8)
 - Carbamazepine, phenytoin: Possible ↓ topiramate levels^(3,4,5,6,7,8)
 - Hormonal contraceptives: Possible ↓ contraceptive effectiveness^(3,5,6,8)
 - Citalopram: Possible ↑ citalopram levels and risk for QT prolongation; if used concurrently, maximum citalopram dose is 20 mg/day⁽⁸⁾
 - See *Drugdex System* for additional drug interactions
 - **Drug Precautions**
 - Anticonvulsants can ↑ **suicidal ideation** and/or risk for **suicide**; monitor closely for mood and/or behavioral changes^(3,4,5,6,7,8,9)
 - Topiramate has been associated with^(3,5,6,8,9)
 - acute myopia, secondary angle-closure glaucoma (discontinue as rapidly as possible)
 - hyperthermia, oligohidrosis (i.e., ↓ sweating), primarily in children
 - hyperchloremic non-anion gap metabolic acidosis
 - Use **cautiously** in older patients, and patients with hepatic impairment, moderate/severe renal impairment, inborn errors of metabolism, ↓ hepatic mitochondrial activity, renal disease, severe respiratory disorders, status epilepticus, diarrhea, surgery, or ketogenic diet⁽⁸⁾
 - Abrupt discontinuation can ↑ seizure incidence/frequency regardless of seizure history; discontinue gradually whenever possible^(5,6,7,8)
 - **Drug Allergy**
 - Topiramate is **contraindicated** in patients with known hypersensitivity to topiramate or formulation components^(4,7)
- 
- 

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R	Published research (not randomized controlled trial)
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RU	Published research utilization report
QI	Published quality improvement report
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PFR	Published funded report

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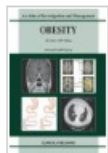
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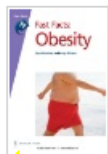
By: Aditya, B. S.; Wilding, John. Oxford, UK : Clinical Publishing. 2011. eBook.

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2. **Obesity**



By: Haslam, David W.; Wittert, Gary. Series: Fast Facts. Abingdon : Health Press. 2009. eBook.

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3. **Case Management: Obesity**



March P; Pravikoff D; CINAHL Nursing Guide, EBSCO Publishing, 2022 Apr 01 (Evidence-Based)

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4. **Obesity in Children and Adolescents**



Church LK; Pravikoff D; CINAHL Nursing Guide, EBSCO Publishing, 2018 Nov 16 (Quick Lesson)

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Marcel C; Pravikoff D; CINAHL Nursing Guide, EBSCO Publishing, 2018 Jul 20 (Quick Lesson)

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Drug Highlights



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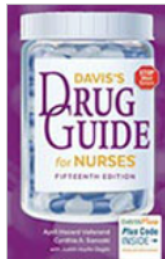
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