

Mood Stabilizing Antiepileptics Cheat Sheet

by adrianao via cheatography.com/168237/cs/35340/

Medications

Carbamazepine

Valproic Acid

Lamotrigine

Oxcarbazepine and topiramate are less frequently used and recommended for maintenance treatment of bipolar disorder.

Purpose

Heal treat and manage bipolar disorders by various mechanisms

Slowing the entrance of sodium and calcium back into the neuron and thus extending the time it takes for the nerve to return to its active state

Inhibiting glutamic acid (glutamate) which in turn suppresses CNS excitation

Therapeutic Uses

Treatment and prevention of relapse of manis and depressive episodes

Especially useful for clients who have mixed mania and rapid cycling bipolar disorders

Complications of Lamotrinige

Compli- cation	Nursing Action and Education
Double vision, blurred vision, dizziness, headache, nausea, and vomiting	Caution clients about performing activities requiring concentration or visual acuity
Serious skin rashes: stevens-j- ohnsons	Instruct clients to withhold medications and notify the provider if rash occurs. To minimize the risk of serious rash, the initial dosage should

Contraindications/ Precautions

Carbamazepine and valproic acid are pregnancy risk category D and can result in birth defects

Lamotrigine is a pregnancy risk category C, but can cause cleft lip and paleet if taken during the first trimester. Clients should discuss breastfeeding while taking lamotrigine with the provider

Carbamazepine is contraindicated in clients who have bone marrow suppression or bleeding disorders. Clients should avoid breastfeeding

Valproic acid is contraindicated in clients who have liver disorders. Clients of child-bearing potential should use contraception while taking valproic acid

Monitor plasma valproic acid and Carbamazepine levels while undergoing treatment. The therapeutic blood level range for Carbamazepine is 4 to 12 mcg/mL. Therapeutic blood level range for valproic acid is 50 to 120 mcg/mL.

Complications of Carbamazepine

Complication	Nursing Action and Education
CNS effects:	Administer low dose
Cognitive	initially, then gradually
function is	increase dose.
minimally	Administer dose at
affected, but	bedtime. Avoid driving
CNS effects	and other activities that
can include	involve alertness at the
nystagmus,	beginning of treatment.
double vision,	CNS effects should
vertigo,	subside within a few
staggering gait,	weeks
and headaches	

Complications of Carbamazepine (cont)

Blood Dyscrasias: leukopenia, anemia, thrombocytopenia Obtain baseline CBC, and platelet, and perform ongoing monitoring. Observe for indications of bruising and bleeding of gums. Monitor and report sore throat, fatigue, or other indications of infection or bleeding

Teratogenesis

avoid use in pregnancy

Hypo-osmolality: promotes secretion of ADH, which inhibits water excretion by the kidneys and places clients who have heart failure at risk for fluid overload.

Monitor blood levels of sodium levels. Monitor for edema, decreased urine output, and hypertension

Skin disorders: dermatitis, rash, stevens-Johnson syndrome (which is potentially life threatening) Treat mild reactions with anti-inflammatory or antihistamine medications. Wear sunscreen. Notify provider if stevens-johnsons syndrome rash occurs and withhold medication

Hepatotoxicity: evidenced by anorexia, nausea, vomiting, fatigue, abdominal pain, and jaundice Assess baseline liver function, and monitor liver function regularly. Avoid using in children under 2. Administer lowest effective dose. observe for indications and notify provider if they occur.



syndrome

By adrianao cheatography.com/adrianao/

be low and advanced slowly

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Complications of Valproic Acid

Compli- cation	Nursing Action and Education
GI Effects: nausea, vomiting, indigestion	Manifestations are usually self-limiting. Take medications with food or switch to enteric coated pills to reduce GI effects.
Hepatotoxicity: anorexia, nausea, vomiting, fatigue, abdominal pain, jaundice	Assess liver function, and monitor liver function regularly. Avoid using in children younger than 2. Administer lowest effective dose. Notify provider if they occur.
Pancreatitis: nausea, vomiting, abdominal pain	Monitor amylase levels. Discontinue medication if pancreatitis develops
Thrombocy- topenia	monitor platelet counts. Observe for manifestations (bruising) and notify the

Interactions for Carbamazepine

Terato-

genesis

Weight Gain

Indications Nursing Action and Education

provider

Avoid use in pregnancy

diet, engage in regular

Follow a healthy low calorie

exercise, and monitor weight

Interactions for Carbamazepine (cont)

Oral contra-	Concurrent use causes a	
ceptive,	decrease in the effects of	
warfarin	these medications due to	
	stimulation of hepatic	
	metabolizing enzymes.	
	Monitor for therapeutic	
	effects of warfarin. Dosage	
	can be adjusted.	
Grapefruit	avoid intake of grapefruit	
Grapefruit juice: inhibits	• .	
'	• .	
juice: inhibits	• .	
juice: inhibits metabolism,	• .	

Phenytoin and phenobarbital: decrease the effects of carbamazepine by

azepine levels

> Monitor phenytoin and phenobarbital levels. Adjust dosage of medications as prescribed

> > Nursing Action

stimulating metabolism

Interaction

Interactions for Lamotrigine

	and Education
Carbamazepine,	Monitor for
phenytoin, and phenob-	therapeutic
arbital: these promote	effects. Adjust
liver drug metabolizing	dosage of
enzymes, thereby	medications as
decreasing the effect of	prescribed
lamotrigine	
Oral contraceptives:	Lamotrigine
Lamotrigine can reduce	dosage change
progestin levels, estrog-	can be required
en-containing contra-	when beginning
ceptives can reduce	or stopping oral
leveles of lamotrigine	contraceptive
	therapy

Interactions for Lamotrigine (cont)

Valproic Acid: inhibits	Monitor for
metabolizing and	adverse effects.
thus increases the	adjust dosage of
half life of lamotringe	medication as
	prescribed

Interactions of Valproic Acid

Interaction	Nursing Action and Education
Phenytoin and Phenob-	Monitor
arbital: blood levels of	phenytoin and
these medications are	phenobarbital
increased when used	levels. Adjust
concurrently with	dosage of
valproic acid	medications as
	prescribed.

Nursing Evaluation of Medication Effectiveness

Depending on therapeutic intent, effectiveness is evidenced by the following

Relief of manifestations of acute mania (flight of ideas, excessive talking, agitation) or depression (fatigue, poor appetite, psychomotor retardation)

Mood stability

Ability to preform ADLs

Improved sleeping and eating habits

Appropriate interactions with peers

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