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ANTIMANIC AGENTS





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Antimanic drug, any drug that stabilizes mood by controlling symptoms of mania, the abnormal psychological state of excitement.



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♣ As the episode builds, the person experiences racing thoughts, extreme agitation, and incoherence, frequently replaced with delusions, hallucinations, and paranoia, and ultimately may become hostile and violent and may finally collapse.

In some persons, periods of depression and mania alternate, giving rise to bipolar disorder.



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Mode of action

- Anti-manic agent produce many neurochemical changes in the area of brain.
- These changes may affect norepinephrine and serotonin in the part of CNS involved in emotions.
- It may decrease the nerve impulse resulting in depression or mania.



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Indication:

- Treatment of acute mania
- Prophylaxis of bipolar disorder
- Treatment of schizoaffected disorder
- Prophylaxis of unipolar mood disorder
- Treatment of cyclothymia
- Treatment of acute depression
- Treatment of chronic alcoholism
- Treatment of impulsive aggression



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Side effects:

- Drowsiness
- Dizziness
- Headache
- Dry mouth
- Thirsty
- Nausea/vomiting
- Fine hand tremors
- Hypotension
- Pulse irregularities



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Contd...

- Arrythmias
- Polyuria
- Dehydration
- Weight gain
- Thyroid enlargement



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Contraindication:

- # Hypersensitivity to drugs

- # Brain damage



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Nursing Roles

- Make observe of the side effect.
- Instruct patient to drink 10-12 glasses of water everyday.
- Make intake and output chart to note the kidney functioning.
- Monitor vital signs on regular basis.
- Monitor skin turgor daily.
- Weekly weight record.



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Contd...

- Emphasize importance of maintaining adequate intake of sodium.
- Advise patient not to increase or decrease medicine unless advise.



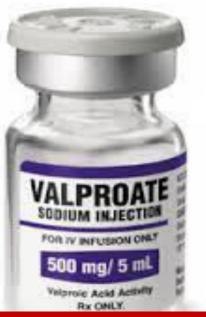
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Valproate

 Valproic acid(depakene), sodium valproate(depacon) and divalpreoex sodium have been used as antiepileptic agents, and these drugs were approved for treatment of mania and are considered first line agents







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■ Mechanism of action

- Valproate increases levels of γ-amino butyric acid (gaba)in the brain ,which decreases seizure activity.
- □ Uses
- Manic episodes associated with bipolar disorder
- Prophylaxis of migraine
- Adjunct for schizophrenia
- Tardive dyskinesia
- Organic brain syndrome, mania



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- □ Doses
- 15mg/kg day
- ☐ Contraindications:
- Hypersensitivity to drug
- Liver disease
- Pregnancy
- Renal disease



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☐ Side effects

- CNS: sedation, drowsiness, dizziness, depression, coma
- GI: nausea, vomiting, dyspepsia, anorexia, cramps
- Rash, alopecia, dry skin
- Leucopenia, bruising
- □ Pharmacokinetics
- Metabolized by liver
- Excreted by kidney
- Plasma life life:6-16hour



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■ Nursing consideration

- Assess seizure disorder: location, duration
- Migraine: frequency, intensity, alleviating factors
- Blood studies: RBC, serum folate, serum ammonia, PT
- Blood levels: therapeutic level 50-100mcg/ml
- Respiratory dysfunction: respiratory depression, character, rate, rhythm



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