



**GENERAL ANAESTHETICS**



<b>DRUG</b>	<b>MECHANISM OF ACTION</b>	<b>USES</b>	<b>STORAGE CONDITIONS</b>	<b>TYPES OF FORMULATIONS</b>	<b>BRAND NAMES</b>
<p><b>Thiopental Sodium</b></p> <ul style="list-style-type: none"> <li>- IV Anaesthetic</li> <li>- Thiobarbiturate derivative</li> </ul>	<p>Binds with GABA-A receptors and prolong the opening duration of Cl<sup>-</sup> ion channel</p>	<ul style="list-style-type: none"> <li>- Sole anaesthetic agent for short procedures</li> <li>- Preanesthetic agent</li> <li>- For supplementing regional anaesthesia</li> </ul>	<ul style="list-style-type: none"> <li>- Stable for 6 days at 22°C</li> <li>- Beyond 7 days at 3°C</li> </ul>	<ul style="list-style-type: none"> <li>○ Injection</li> <li>○ Powder</li> <li>○ Solution</li> </ul>	<ul style="list-style-type: none"> <li>○ Thiosol</li> <li>○ Thiojex</li> <li>○ Pentothal</li> <li>○ Pentone</li> </ul>
<p><b>Ketamine Hydrochloride</b></p> <ul style="list-style-type: none"> <li>- IV Anaesthetic</li> <li>- Cyclohexane ring</li> </ul>	<p>NMDA receptor antagonist</p>	<ul style="list-style-type: none"> <li>- Anaesthetic agent for diagnostic and surgical procedures</li> <li>- Preanaesthetic agent</li> </ul>	<p>2-8°C</p>	<ul style="list-style-type: none"> <li>○ Liquid solution</li> </ul>	<ul style="list-style-type: none"> <li>○ Ketalar</li> <li>○ Ketmin</li> </ul>
<p><b>Propofol</b></p> <ul style="list-style-type: none"> <li>- IV Anaesthetic</li> <li>- Alkyl phenol derivative</li> </ul>	<p>Enhances the inhibitory function of GABA via GABA-A receptors</p>	<ul style="list-style-type: none"> <li>- Sedative</li> </ul>	<p>4-22°C</p>	<ul style="list-style-type: none"> <li>○ Emulsion</li> <li>○ Suspension</li> <li>○ Injection</li> </ul>	<ul style="list-style-type: none"> <li>○ Propoven</li> <li>○ Diprivan</li> </ul>



**SEDATIVE AND HYPNOTIC**

<p><b>Diazepam</b> - Benzodiazepine derivative</p>	<p>Nonspecifically binds with BDZ receptors. BDZ receptors couple with GABA receptors. Enhances the effect of GABA by increasing its affinity with GABA-A receptors.</p>	<ul style="list-style-type: none"> <li>- Severe anxiety disorders</li> <li>- Managing insomnia for short term sedative</li> </ul>	<p>4-30°C for 90 days</p>	<ul style="list-style-type: none"> <li>○ Tablets</li> <li>○ Oral solution</li> <li>○ Rectal gel</li> <li>○ Injection</li> </ul>	<ul style="list-style-type: none"> <li>○ Diastat</li> <li>○ Valium</li> <li>○ Diastat Acugel</li> </ul>
<p><b>Alprazolam</b> - Triazolo Benzodiazepine derivative</p>	<p>Nonspecifically binds with BNZ<sub>1</sub> &amp; BNZ<sub>2</sub> receptors. BNZ<sub>1</sub> &amp; BNZ<sub>2</sub> receptors bind with GABA-A receptors. Enhances the effect of GABA by increasing its affinity with GABA-A receptors.</p>	<ul style="list-style-type: none"> <li>- Managing anxiety</li> <li>- Panic disorders</li> </ul>	<p>20-25°C</p>	<ul style="list-style-type: none"> <li>○ Tablets</li> </ul>	<ul style="list-style-type: none"> <li>○ Alprazolam Intensol</li> <li>○ Xanax</li> <li>○ Xanax XR</li> </ul>
<p><b>Nitrazepam</b> - Benzodiazepine derivative</p>	<p>Inhibits GABA-A receptors Enhances GABA binding activity</p>	<ul style="list-style-type: none"> <li>- Severe anxiety</li> <li>- Panic disorder</li> <li>- Insomnia</li> <li>- Seizure</li> </ul>	<p>15-30°C</p>	<ul style="list-style-type: none"> <li>○ Tablets</li> </ul>	<ul style="list-style-type: none"> <li>○ Nitrazepam</li> <li>○ Nitrazadon</li> </ul>
<p><b>Phenobarbital</b> - Barbituric acid derivative</p>	<ul style="list-style-type: none"> <li>- Binds to inhibitory GABA-A receptors</li> <li>- Decrease excitatory transmitter release by inhibiting Ca<sup>2+</sup> channels</li> </ul>	<ul style="list-style-type: none"> <li>- Sedative</li> <li>- Hypnotic</li> </ul>	<p>15-30°C</p>	<ul style="list-style-type: none"> <li>○ Oral elixir</li> <li>○ Oral tablet</li> </ul>	<ul style="list-style-type: none"> <li>○ Luminal</li> <li>○ Solfoton</li> </ul>

ANTIPSYCHOTICS



<p><b>Chlorpromazine</b> - Phenothiazine derivative</p>	<p>Blocks post synaptic D<sub>2</sub> Dopamine receptors</p>	<ul style="list-style-type: none"> <li>- Schizophrenia</li> <li>- Maniac depressive illness</li> <li>- Severe behavioral problems in children</li> </ul>	<ul style="list-style-type: none"> <li>- Oral solution, tablet, injection: &lt;40°C</li> <li>- Suppositories: 15-30°C</li> </ul>	<ul style="list-style-type: none"> <li>○ Injection</li> <li>○ Oral solution</li> <li>○ Tablet</li> </ul>	<ul style="list-style-type: none"> <li>○ Ormazine</li> <li>○ Thorazine</li> <li>○ Thorazine Spanzule</li> </ul>
<p><b>Haloperidol</b> - Butyrophenone derivative</p>	<p>Antagonizes the action of Glutamic acid in extrapyramidal system</p>	<ul style="list-style-type: none"> <li>- Acute psychosis</li> <li>- Hyperactivity</li> <li>- Aggression</li> <li>- Acute delirium</li> <li>- Behavioral disorders in children</li> </ul>	<p>20-25°C</p>	<ul style="list-style-type: none"> <li>○ Tablet</li> <li>○ Oral concentration</li> </ul>	<ul style="list-style-type: none"> <li>○ Haloperidol LA</li> <li>○ Peridol</li> </ul>
<p><b>Risperidone</b> - Atypical neuroleptic/ Atypical antipsychotic</p>	<p>Inhibits 5-HT<sub>2A</sub> and D<sub>2</sub> receptors</p>	<ul style="list-style-type: none"> <li>- Schizophrenia</li> <li>- Mood disorders</li> <li>- Bipolar disorder</li> <li>- Depression with psychosis</li> </ul>	<p>Room temperature</p>	<ul style="list-style-type: none"> <li>○ Tablet</li> <li>○ Oral suspension</li> </ul>	<ul style="list-style-type: none"> <li>○ Risperidol</li> <li>○ Perseris</li> </ul>
<p><b>Sulpiride</b> - Substituted benzamide</p>	<p>Blocks D<sub>1</sub> and D<sub>2</sub> receptors</p>	<ul style="list-style-type: none"> <li>- Schizophrenia</li> </ul>	<p>Cool and dry place</p>	<ul style="list-style-type: none"> <li>○ Tablet</li> <li>○ Solution</li> <li>○ Capsule</li> </ul>	<ul style="list-style-type: none"> <li>○ Espiride</li> <li>○ sulpor</li> </ul>

DRUGS ACTING ON CENTRAL NERVOUS SYSTEM

<p><b>Olanzapine</b></p> <ul style="list-style-type: none"> <li>- Atypical neuroleptic</li> <li>- Thieno Benzodiazepine derivative</li> </ul>	<ul style="list-style-type: none"> <li>- Antagonize D<sub>1</sub>, D<sub>2</sub> and D<sub>3</sub> receptors in brain</li> <li>- Blocks 5HT<sub>2A</sub>, 5HT<sub>2C</sub>, 5HT<sub>3</sub> and 5HT<sub>6</sub> receptors.</li> </ul>	<ul style="list-style-type: none"> <li>- Schizophrenia</li> <li>- Bipolar disorder</li> </ul>	20-25°C	<ul style="list-style-type: none"> <li>○ Tablet</li> </ul>	<ul style="list-style-type: none"> <li>○ ZyPREXA</li> <li>○ ZyPREXA Zydis</li> </ul>
<p><b>Quetiapine</b></p> <ul style="list-style-type: none"> <li>- Atypical neuroleptic</li> </ul>	Blocks D <sub>2</sub> and 5HT <sub>2A</sub> receptors	<ul style="list-style-type: none"> <li>- Schizophrenia</li> <li>- Bipolar disorder</li> </ul>	15-30°C	<ul style="list-style-type: none"> <li>○ Tablet</li> <li>○ Capsule</li> </ul>	<ul style="list-style-type: none"> <li>○ SERO quel</li> <li>○ SERO quel XR</li> </ul>
<p><b>Lurasidone</b></p> <ul style="list-style-type: none"> <li>- Atypical neuroleptic</li> </ul>	Blocks D <sub>2</sub> and 5HT <sub>2A</sub> receptors	<ul style="list-style-type: none"> <li>- Schizophrenia</li> <li>- Depressive episode associated with bipolar I disorder</li> </ul>	Room temperature	<ul style="list-style-type: none"> <li>○ Tablet</li> </ul>	<ul style="list-style-type: none"> <li>○ Latuda</li> </ul>

ANTICONVULSANTS



<p><b>Phenytoin</b></p> <ul style="list-style-type: none"> <li>- Imidazolidine dione/ Hydantoin derivative</li> </ul>	Enhances Na <sup>+</sup> channel inactivation	<ul style="list-style-type: none"> <li>- Status epilepticus</li> <li>- Trigeminal neuralgia</li> <li>- Cardiac arrhythmia</li> <li>- Generalized tonic-clonic seizures</li> <li>- Complex partial seizures</li> </ul>	Room temperature	<ul style="list-style-type: none"> <li>○ Capsules</li> <li>○ Tablets</li> <li>○ Oral suspension</li> <li>○ Injection</li> </ul>	<ul style="list-style-type: none"> <li>○ Phenytoin sodium</li> <li>○ Dilantin</li> </ul>
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**DRUGS ACTING ON CENTRAL NERVOUS SYSTEM**

<p><b>Carbamazepine</b> - Dibenzazepine derivative</p>	<p>Enhances Na<sup>+</sup> channel inactivation</p>	<ul style="list-style-type: none"> <li>- Epilepsy</li> <li>- Pain related to true trigeminal neuralgia</li> </ul>	<p>Room temperature</p>	<ul style="list-style-type: none"> <li>○ Capsules</li> <li>○ Tablets</li> <li>○ Oral suspension</li> </ul>	<ul style="list-style-type: none"> <li>○ Carbamazepine Chewtabs</li> <li>○ Carbamazepine suspension</li> <li>○ CR</li> </ul>
<p><b>Clonazepam</b> - Benzodiazepine derivative</p>	<p>Effects of GABA are potentiated by allosteric interactions between central BDZ &amp; GABA receptors</p>	<ul style="list-style-type: none"> <li>- Myotonic, Myoclonic, Absence &amp; Petitmal variant seizures</li> </ul>	<p>15-30°C</p>	<ul style="list-style-type: none"> <li>○ Tablet</li> <li>○ Solution</li> </ul>	<ul style="list-style-type: none"> <li>○ Klonopin</li> <li>○ Rivotril</li> </ul>
<p><b>Valproic acid</b> - Fatty acid - 2 propyl pentanoic acid</p>	<p>Valproate ions bind and inhibit GABA transaminase enzyme and increases the concentration of GABA in brain</p>	<p>Mania, Absence, Tonic-clonic &amp; Complex partial seizure</p>	<p>15-30°C</p>	<ul style="list-style-type: none"> <li>○ Capsule</li> <li>○ Syringe</li> <li>○ Injection</li> </ul>	<ul style="list-style-type: none"> <li>○ Valproate sodium</li> <li>○ Depacon</li> </ul>
<p><b>Gabapentin</b> - GABA Analogue - Cyclohexane</p>	<p>Interact with Voltage sensitive Ca<sup>2+</sup> channels and increases synaptic concentration of GABA</p>	<ul style="list-style-type: none"> <li>- Partial seizure</li> </ul>	<p>At 4°C- stable for 6 days</p>	<ul style="list-style-type: none"> <li>○ Capsule</li> <li>○ Solution</li> <li>○ Tablet</li> <li>○ Suspension</li> </ul>	<ul style="list-style-type: none"> <li>○ Gabarone</li> <li>○ Neurontin</li> </ul>
<p><b>Topiramate</b> - Newer anticonvulsant</p>	<ul style="list-style-type: none"> <li>- Stimulates GABA-A receptor activity (inhibitory neuronal activity) at brain non BDZ receptor sites</li> <li>- Reduces Glutamate activity (stimulatory neuronal activity) at both AMPA &amp; Kainate receptors</li> </ul>	<ul style="list-style-type: none"> <li>- Seizure</li> </ul>	<p>Room temperature</p>	<ul style="list-style-type: none"> <li>○ Tablet</li> <li>○ Capsule</li> </ul>	<ul style="list-style-type: none"> <li>○ Topamax</li> <li>○ Topamax sprinkle</li> </ul>

DRUGS ACTING ON CENTRAL NERVOUS SYSTEM

<b>Vigabatrin</b> - GABA Analogue	GABA Transaminase inhibitor	- Refractory complex partial seizure	- Oral syringes: 20-25°C - Powder: Room temperature	<input type="radio"/> Tablet <input type="radio"/> Powder	<input type="radio"/> Vigadrone <input type="radio"/> Sabril
<b>Lamotrigine</b> - Phenyl triazine derivative	Enhances Na <sup>+</sup> channel inactivation	- Epileptic seizure	Room temperature	<input type="radio"/> Tablet	<input type="radio"/> Lamictal



ANTIDEPRESSANTS

<b>Amitriptyline Hydrochloride</b> - Tricyclic antidepressants (TCA) - Dibenz cycloheptane ring	Inhibits Norepinephrine and Serotonin reuptake in adrenergic and serotonergic neurons	- Anxiety accompanied by depression	20-25°C	<input type="radio"/> Tablet <input type="radio"/> Oral Solution	<input type="radio"/> Elavil <input type="radio"/> Tryptizol
<b>Imipramine Hydrochloride</b> - Tricyclic antidepressants (TCA) - Dibenzazepine ring	Inhibits Norepinephrine and Serotonin reuptake by nerve cells	- Endogenous depression	Room temperature	<input type="radio"/> Capsule <input type="radio"/> Tablet	<input type="radio"/> Tofranil

DRUGS ACTING ON CENTRAL NERVOUS SYSTEM

<p><b>Fluoxetine</b></p> <ul style="list-style-type: none"> <li>- Selective Serotonin Reuptake Inhibitor (SSRI)</li> <li>- Atypical antidepressant</li> </ul>	<p>Blocks the reuptake of serotonin at the serotonin reuptake pump of neuronal membrane</p>	<ul style="list-style-type: none"> <li>- Endogenous depression</li> <li>- Obsessive compulsive disorder</li> </ul>	<p>15-30°C</p>	<ul style="list-style-type: none"> <li>○ Capsule</li> <li>○ Tablet</li> <li>○ Solution</li> </ul>	<ul style="list-style-type: none"> <li>○ Act Fluoxetine</li> <li>○ Prozac</li> </ul>
<p><b>Venlafaxine</b></p> <ul style="list-style-type: none"> <li>- Selective Serotonin and Norepinephrine Reuptake Inhibitor (SSNRI)</li> </ul>	<p>Inhibits the reuptake of both Norepinephrine and Serotonin</p>	<ul style="list-style-type: none"> <li>- Major depression</li> <li>- Anxiety</li> <li>- Panic disorder</li> </ul>	<p>Cool and dry place</p>	<ul style="list-style-type: none"> <li>○ Capsule</li> <li>○ Tablet</li> </ul>	<ul style="list-style-type: none"> <li>○ Effexor</li> </ul>
<p><b>Duloxetine</b></p> <ul style="list-style-type: none"> <li>- Selective Serotonin &amp; Norepinephrine Reuptake Inhibitor (SSNRI)</li> </ul>	<p>Inhibits neuronal Serotonin and Norepinephrine reuptake</p>	<ul style="list-style-type: none"> <li>- Major depressive disorder</li> <li>- General anxiety disorder</li> </ul>	<p>-20°C</p>	<ul style="list-style-type: none"> <li>○ Capsule</li> <li>○ Tablet</li> </ul>	<ul style="list-style-type: none"> <li>○ Cymbalta</li> <li>○ Drizalma sprinkle</li> <li>○ Irenka</li> </ul>
<p><b>Sertraline</b></p> <ul style="list-style-type: none"> <li>- Selective Serotonin Reuptake Inhibitor (SSRI)</li> </ul>	<p>Reuptake of serotonin at presynaptic neuronal membrane gets inhibited</p>	<ul style="list-style-type: none"> <li>- Major depressive disorder</li> <li>- Social anxiety disorder</li> <li>- Obsessive compulsive disorder</li> <li>- Panic disorder</li> <li>- Post-traumatic stress disorder</li> <li>- Premenstrual dysphoric disorder</li> </ul>	<p>20-25°C</p>	<ul style="list-style-type: none"> <li>○ Tablet</li> <li>○ Oral concentration</li> </ul>	<ul style="list-style-type: none"> <li>○ Zoloft</li> </ul>

DRUGS ACTING ON CENTRAL NERVOUS SYSTEM

<p><b>Citalopram</b> - Selective Serotonin Reuptake Inhibitor (SSRI)</p>	<p>Inhibits neuronal Serotonin reuptake</p>	<p>- Depression</p>	<p>Room temperature</p>	<p>○ Tablet ○ Oral Solution</p>	<p>○ CeleXA</p>
<p><b>Fluvoxamine</b> - Selective Serotonin Reuptake Inhibitor (SSRI)</p>	<p>Inhibits neuronal Serotonin reuptake</p>	<p>- Obsessive compulsive disorder</p>	<p>15-30°C</p>	<p>○ Capsule ○ Tablet</p>	<p>○ Luvox</p>
<p><b>Escitalopram</b> - Selective Serotonin Reuptake Inhibitor (SSRI)</p>	<p>Reuptake of serotonin at presynaptic neuronal membrane gets inhibited</p>	<p>- Major depressive disorder - Generalized anxiety disorder - Obsessive compulsive disorder</p>	<p>Room temperature</p>	<p>○ Tablet</p>	<p>○ Cipralelex ○ Lexapro</p>
<p><b>Paroxetine</b> - Selective Serotonin Reuptake Inhibitor (SSRI)</p>	<p>Reuptake of serotonin at presynaptic neuronal membrane gets inhibited</p>	<p>- Major depressive disorder - Obsessive compulsive disorder - Panic disorder - Social phobia - Premenstrual dysphoric disorder</p>	<p>15-30°C</p>	<p>○ Tablet</p>	<p>○ Paxil ○ Paxil CR</p>