

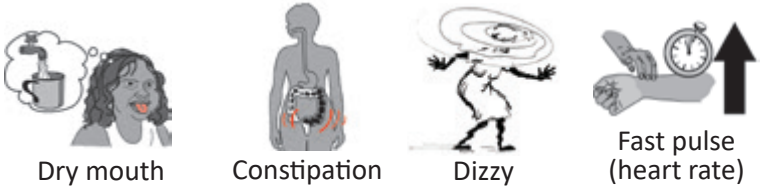
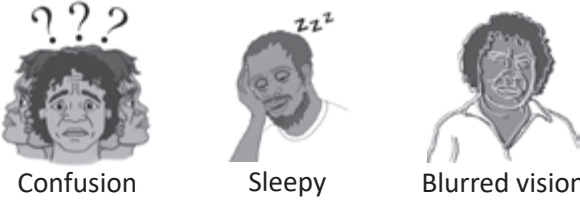











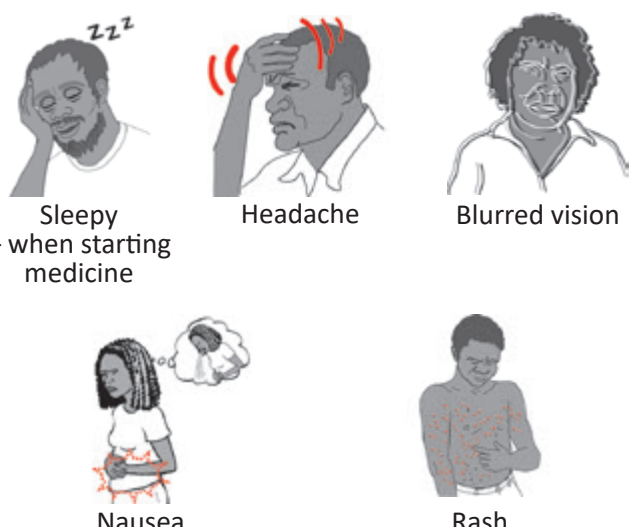











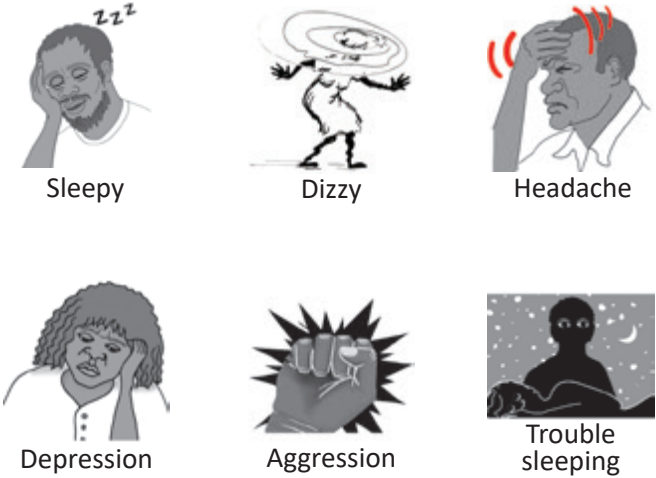











<p>Active ingredients (generic names)</p>	<p>BENZATROPINE (benz-a-tro-peen) Common brands include: <i>Bentrop, Cogentin</i></p>  <p>Other anticholinergic medicines Not included in this monograph — see <i>AMH</i> for information:</p> <ul style="list-style-type: none"> • Benzhexol • Biperiden
<p>What it is used for</p>	<ul style="list-style-type: none"> • Controlling side effects of antipsychotic medicines (eg haloperidol, depot antipsychotics) <ul style="list-style-type: none"> ◦ Mental health emergency (<i>CARPA STM p194</i>) ◦ Psychosis (<i>CARPA STM p206</i>) ◦ Oculogyric crisis (<i>CARPA STM p106</i>) • Parkinson's disease
<p>How it works</p>	<ul style="list-style-type: none"> • Works in brain to block cholinergic hormone receptors. This reduces some symptoms of Parkinson's disease (tremor, rigidity, too much saliva) and side effects of antipsychotics 
<p>Side effects</p>	<ul style="list-style-type: none"> • Urinary retention (can't pass urine properly)  <p>Dry mouth Constipation Dizzy Fast pulse (heart rate)</p>  <p>Confusion Sleepy Blurred vision</p>









 <p>Warnings</p>	<ul style="list-style-type: none"> • Bladder and bowel trouble • Dementia <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Heart trouble</p> </div> <div style="text-align: center;">  <p>Old people</p> </div> <div style="text-align: center;">  <p>Eye trouble – glaucoma</p> </div> </div>
	<p>Interactions — Do not use together without medical consult</p> <p>BENZATROPINE with:</p> <ul style="list-style-type: none"> • Other anticholinergic medicines (eg amitriptyline, chlorpheniramine, promethazine, chlorpromazine, olanzapine, oxybutynin, tiotropium)
 <p>Tell the patient</p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Do not drink alcohol (grog)</p> </div> <div style="text-align: center;">  <p>Do not drive or operate machinery if sleepy or dizzy</p> </div> </div> <div style="text-align: center; margin-top: 20px;">  <p>Do not stop taking medicine – take as instructed to stop symptoms coming back</p> </div>
	<p>Warning stickers (p298): 1, 9 (if taking for a long time)</p>
<p>Check</p>	 <p>BP</p>











<p>Active ingredients (generic names)</p>	<p>CARBAMAZEPINE (car-ba-maz-e-peen) Common brands include: <i>Tegretol</i></p> 
<p>What it is used for</p>	<ul style="list-style-type: none"> • Epilepsy (fitting) • Nerve (neuropathic) pain • Bipolar disorder — to even out mood swings
<p>How it works</p>	<ul style="list-style-type: none"> • Changes pattern of electrical activity in brain. May be useful where electrical activity is disturbed (eg epilepsy, bipolar disorder, nerve [neuropathic] pain) 
<p>Side effects</p>	 <p>Sleepy – when starting medicine</p> <p>Headache</p> <p>Blurred vision</p> <p>Nausea</p> <p>Rash</p>

 <p>Warnings</p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Pregnant</p> </div> <div style="text-align: center;">  <p>Liver trouble</p> </div> </div> <p>Interactions — Do not use together without medical consult</p> <ul style="list-style-type: none"> • Carbamazepine interacts with a lot of different medicines — always check with doctor or pharmacist before adding another medicine
 <p>Tell the patient</p>	<ul style="list-style-type: none"> • May stop combined oral or injected contraceptives (pill or implant) from working properly. Talk about using other contraceptive • You will feel tired for first few weeks • Do not drink grapefruit juice — can increase amount of medicine in your bloodstream and chance of getting side effects • Swallow slow-release medicines whole <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 20px;"> <div style="text-align: center;">  <p>Take with food or milk</p> </div> <div style="text-align: center;">  <p>Do not drink alcohol (grog)</p> </div> <div style="text-align: center;">  <p>Do not stop taking medicine – take as instructed to stop symptoms coming back</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 20px;"> <div style="text-align: center;">  <p>Do not drive or operate machinery if sleepy or blurred vision</p> </div> <div style="text-align: center;">  <p>Return to clinic straight away if rash, sore throat, fever, mouth ulcers, bruising, or bleeding <i>OR</i> you are very sleepy</p> </div> </div> <p>Warning stickers (p298): 5, 9, 12, 13, 18, A (slow-release), B</p>
<p>Check</p>	<ul style="list-style-type: none"> • If used long-term — consider bone mineral density test <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="margin-left: 10px;"> <p>Check FBC before starting medicine. If using to treat epilepsy – check carbamazepine levels</p> </div> </div> <p style="text-align: center;">Blood test</p>

<p>Active ingredients (generic names)</p>	<p>LEVETIRACETAM (lee-ve-tyr-ra-se-tam) Common brands include:</p> 
<p>What it is used for</p>	<ul style="list-style-type: none"> • Epilepsy (fitting) • Preventing fitting after head injury (<i>CARPA STM p77</i>)
<p>How it works</p>	<ul style="list-style-type: none"> • Exact mechanism unknown. May change the way messages are transmitted by the nerves (neurotransmission)
<p>Side effects</p>	<ul style="list-style-type: none"> • Loss of appetite 

 <p>Warnings</p>	    <p>Pregnant Breastfeeding Kidney trouble – reduce dose Mental health problems</p>
 <p>Tell the patient</p>	<ul style="list-style-type: none"> • Can dilute medicine mixture in a glass of water  <p>Do not drive or operate machinery if sleepy or dizzy</p>  <p>Do not drink alcohol (grog) – medicine increases the effects</p>  <p>Do not stop taking medicine suddenly</p>
<p>Check</p>	<p>Warning stickers (p298): 1, 9</p>

<p>Active ingredients (generic names)</p>	<p>LEVODOPA + BENSERAZIDE (le-vo-doe-pa + ben-ser-a-zide) Common brands include: <i>Madopar, Madopar HBS, Madopar Rapid</i></p> <p>LEVODOPA + CARBIDOPA (le-vo-doe-pa + car-be-do-pa) Common brands include: <i>Kinson, Sinemet, Sinemet CR</i></p>  <p>Other dopaminergic combinations Not included in this monograph — see <i>AMH</i> for information:</p> <ul style="list-style-type: none"> • Levodopa + carbidopa + entacapone (eg <i>Stalevo</i>)
<p>What it is used for</p>	<ul style="list-style-type: none"> • Parkinson's disease — levodopa • Benserazide or carbidopa added to reduce side effects like nausea, vomiting, low BP (hypotension) • Entacapone added to improve movement in people with Parkinson's disease
<p>How it works</p>	<ul style="list-style-type: none"> • Dopamine is an important chemical messenger in the brain. Parkinson's disease happens when not enough dopamine. Levodopa increases dopamine in the brain 
<p>Side effects</p>	<ul style="list-style-type: none"> • Agitation • Hallucinations • Strange movements (dyskinesia) • Loss of appetite (anorexia)  <p>Nausea and vomiting</p>  <p>Dizzy when standing up</p>  <p>Confusion</p>  <p>Depression</p>  <p>Sleepy</p>  <p>Trouble sleeping</p>




 <p>Warnings</p>	    <p>Breastfeeding Eye trouble – glaucoma Heart trouble Mental health problems</p>
 <p>Tell the patient</p>	<p>• Swallow whole. Do not chew</p>    <p>Take at same time every day Do not stop taking medicine suddenly Do not drive or operate machinery if sleepy</p>
<p>Check</p>	<p>• Check for abnormal body movements</p>  <p>BP</p>











Interactions — Do not use together without medical consult




BENSERAZIDE with:




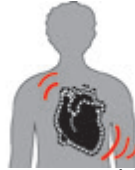








- Antiemetics (eg metoclopramide, prochlorperazine), domperidone OK
- Antipsychotics (eg haloperidol, risperidone)
- Iron — can take 2 hours before or after medicine
- Methyldopa
- Nutritional supplement drinks — give medicine first
- Phenytoin







Warning stickers ([p298](#)): 4b, 9, 16, A










<p>Active ingredients (generic names)</p>	<p>MIDAZOLAM (mi-daz-o-lam) Common brands include: <i>Hypnovel</i></p>  <p>Solution for injections can be trickled between the cheek and teeth (buccal), given in the nose, or given rectally.</p> <p>Other benzodiazepines (neurological) Not included in this monograph — see individual monograph or <i>AMH</i> for information:</p> <ul style="list-style-type: none"> • Clobazam • Clonazepam • Diazepam (p258) • Nitrazepam
<p>What it is used for</p>	<ul style="list-style-type: none"> • Acute treatment of fits (CARPA STM p57) <ul style="list-style-type: none"> ◦ Includes seizures associated with poisoning, drug or alcohol withdrawal, high temperature (febrile), long lasting seizures (status epilepticus) • Sedation in mental health emergency (CARPA STM p193) • Palliative care (CPM p135) <p>Doses — CARPA STM p58</p>
<p>How it works</p>	<ul style="list-style-type: none"> • Works in the brain to stop or prevent fits, and cause sedation 
<p>Side effects</p>	<ul style="list-style-type: none"> • Irritability and hyperactivity — mainly in children and the elderly  <p>Sleepy Aggression Confusion Breathing trouble – may be slow</p>

 <p>Warnings</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Pregnant – during labour</p> </div> <div style="text-align: center;">  <p>Breastfeeding</p> </div> <div style="text-align: center;">  <p>Old people</p> </div> <div style="text-align: center;">  <p>Kidney trouble</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>Liver trouble</p> </div> <div style="text-align: center;">  <p>Breathing trouble</p> </div> <div style="text-align: center;">  <p>Warning – do not use if person drank alcohol in last 6–8 hours</p> </div> </div>
	<p>Interactions — Do not use together without medical consult</p> <p>MIDAZOLAM with:</p> <ul style="list-style-type: none"> • Diazepam — unless able to manage airway and breathing • Olanzapine IM — unless able to manage airway and breathing • Magnesium sulfate — unless able to manage airway and breathing
 <p>Tell the patient</p>	<div style="text-align: center;">  <p>Do not drive or operate machinery if sleepy</p> </div>
	<p>Warning stickers (p298): 1 or 1a</p> <ul style="list-style-type: none"> • Remember to sign the drug register
<p>Check</p>	

<p>Active ingredients (generic names)</p>	<p>PHENYTOIN (fen-i-toyn) Common brands include: <i>Dilantin</i></p> 
<p>What it is used for</p>	<ul style="list-style-type: none"> • Epilepsy (fitting) • Preventing fitting
<p>How it works</p>	<ul style="list-style-type: none"> • Works in the brain to stop or prevent fits 
<p>Side effects</p>	 <ul style="list-style-type: none"> • Signs of overdose — agitation, blurred vision, clumsy walking, jerking of eyes

 <p>Warnings</p>	<ul style="list-style-type: none"> Diabetes — risk of high blood glucose (hyperglycaemia) <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Pregnant</p> </div> <div style="text-align: center;">  <p>Liver trouble – use lower dose</p> </div> <div style="text-align: center;">  <p>Heart trouble (phenytoin IV)</p> </div> </div> <p>Interactions — Do not use together without medical consult</p> <ul style="list-style-type: none"> Phenytoin interacts with a lot of different medicines — always check with doctor or pharmacist before adding another medicine
 <p>Tell the patient</p>	<ul style="list-style-type: none"> May stop combined oral or injected contraceptives (pill or implant) from working properly. Use condoms while taking medicine and for 4 weeks after treatment Have regular checks with dentist <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;">  <p>Take with food or milk – so it doesn't make you feel sick</p> </div> <div style="text-align: center;">  <p>Do not drive or operate machinery if sleepy or blurred vision</p> </div> <div style="text-align: center;">  <p>Do not stop taking medicine – take as instructed to stop symptoms coming back</p> </div> <div style="text-align: center;">  <p>Brush teeth – if gums swell keep mouth and gums clean, brush teeth very gently</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <div style="text-align: center;">  <p>Do not drink alcohol (grog)</p> </div> <div style="text-align: center;">  <p>Return to clinic straight away if signs of overdose (see <i>Side effects</i>) OR fever, sore throat, rash, mouth ulcers, bruising, or bleeding</p> </div> </div> <p>Warning stickers (p298): 5, 9, 12, 13</p>
<p>Check</p>	<ul style="list-style-type: none"> Capsules, tablets and liquid are not all equal — check you have the right phenytoin <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <p>Check phenytoin levels</p> </div> </div> <p>Blood test</p>

<p>Active ingredients (generic names)</p>	<p>VALPROATE (val-pro-ate) Common brands include: <i>Epilim, Valprease, Valpro</i></p> 
<p>What it is used for</p>	<ul style="list-style-type: none"> • Epilepsy (fitting) (CARPA STM p59) • Bipolar (mood) disorder • Preventing migraine when other medicines haven't worked
<p>How it works</p>	<ul style="list-style-type: none"> • Works in the brain to stop or prevent fits 
<p>Side effects</p>	 <p>Nausea and vomiting</p>  <p>Tremor</p>  <p>Weight gain</p>  <p>Bleeding or bruising</p>

 <p>Warnings</p>	<ul style="list-style-type: none"> • Pancreatitis <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Pregnant</p> </div> <div style="text-align: center;">  <p>Liver trouble</p> </div> </div> <p>Interactions — Do not use together without medical consult</p> <ul style="list-style-type: none"> • Valproate interacts with a lot of different medicines — always check with doctor or pharmacist before adding another medicine
 <p>Tell the patient</p>	<ul style="list-style-type: none"> • Swallow tablets whole. Do not chew them • Do not take more than 1 aspirin a day — low dose (100mg) <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Take with food or milk – so it doesn't make you feel sick</p> </div> <div style="text-align: center;">  <p>Do not stop taking medicine – take as instructed to stop symptoms coming back</p> </div> </div> <div style="text-align: center; margin-top: 20px;">  <p>Return to clinic straight away if fever, abdominal pain, vomiting, yellowing of skin or eyes, bruising or bleeding</p> </div> <p>Warning stickers (p298): 9, 10a, 12, 13, A, B</p>
<p>Check</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Weight</p> </div> <div style="text-align: center;">  <p>Blood test</p> </div> </div> <p>Check liver function tests (LFT), FBC</p>