

**Package leaflet:  
Information for the user**

**Midazolam 2.5 mg oromucosal solution  
For children aged 3 months to less than 1 year**

**Midazolam 5 mg oromucosal solution  
For children aged 1 year to less than 5 years**

**Midazolam 7.5 mg oromucosal solution  
For children aged 5 years to less than 10 years**

**Midazolam 10 mg oromucosal solution  
For children aged 10 years to less than 18 years**

Midazolam

**Read all of this leaflet carefully, before you start giving this medicine because it contains important information for you.**

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for your child. Do not pass it on to others. It may harm them, even if their signs of illness are the same as those of the child for whom this medicine has been prescribed.
- If you see any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

**What is in this leaflet:**

1. What Midazolam is and what it is used for
2. What you need to know before you give Midazolam
3. How to give Midazolam
4. Possible side effects
5. How to store Midazolam
6. Contents of the pack and other information

**1. What Midazolam is and what it is used for**

This medicine contains midazolam. Midazolam belongs to a group of medicines known as benzodiazepines. Midazolam is used to stop a sudden, prolonged, convulsive, seizure in infants, toddlers, children and adolescents (from 3 months to less than 18 years of age). In infants from 3 months to less than 6 months it should only be used in a hospital setting where monitoring is possible and resuscitation equipment is available. This medicine must only be used by parents/carers where the child has been diagnosed to have epilepsy.

**2. What you need to know before you give Midazolam**

**Do not give Midazolam if the patient has:**

- An allergy to midazolam, benzodiazepines (such as diazepam) or any of the other ingredients of this medicine (listed in section 6)
- A disease of the nerves and muscles causing muscle weakness (myasthenia gravis)
- Severe difficulty breathing at rest (Midazolam can make breathing difficulties worse)
- An illness causing frequent interruption of breathing during sleep (sleep apnoea syndrome)
- Severe liver problems.

**Warnings and precautions**

Talk to your doctor or pharmacist before giving Midazolam if the patient has:

- A kidney, liver or heart condition
- A lung condition that causes difficulty breathing on a regular basis.

This medicine may cause people to forget what happened after they have been given it. Patients should be observed carefully after being given the medicine.

This medicine should be avoided in patients with a medical history of alcohol or drug abuse.

Life threatening incidents are more likely in patients with breathing difficulties or heart problems, especially when higher doses of Midazolam are given.

**Children younger than 3 months:** Midazolam should not be given to children younger than 3 months since there is not enough information in this age group.

If you are not sure if any of the above applies to the patient, talk to a doctor or pharmacist before giving this medicine.

**Other medicines and Midazolam**

Tell your doctor or pharmacist if the patient is taking, or has recently taken, or might take any other medicines. If you have any doubt about whether any medicine the patient is taking may affect the use of Midazolam, please speak to your doctor or pharmacist. This is extremely important, as using more than one medicine at the same time can strengthen or weaken the effect of the medicines involved.

The effects of Midazolam may be intensified by medicines such as:

- antiepileptics, (for treating epilepsy) e.g. phenytoin
- antibiotics, e.g. erythromycin, clarithromycin

- antifungals, e.g. ketoconazole, voriconazole, fluconazole, itraconazole, posaconazole
- anti-ulcer medicines, e.g. cimetidine, ranitidine and omeprazole
- medicines used to treat blood pressure, e.g. diltiazem, verapamil
- some medicines used to treat HIV and AIDS, e.g. saquinavir, lopinavir/ritonavir combination
- narcotic analgesics (very strong pain killers), e.g. fentanyl
- medicines used to reduce fat in the blood, e.g. atorvastatin
- medicines used to treat nausea, e.g. nabilone
- hypnotics (sleep inducing medicines)
- sedative antidepressants (medicines used to treat depression that make you sleepy)
- sedatives (medicines that relax you)
- anaesthetics (for pain relief)
- antihistamines (to treat allergies).

The effects of Midazolam may be reduced by medicines such as:

- rifampicin (used to treat tuberculosis)
- xanthines (used to treat asthma)
- St John's Wort (a herbal medicine). This should be avoided in patients taking Midazolam.

Midazolam may increase the effect of some muscle relaxants e.g. baclofen (causing increased drowsiness). This medicine may also stop some other medicines from working as well, e.g. levodopa (used to treat Parkinson's disease).

Talk to your doctor or pharmacist about medicines the patient should avoid whilst taking Midazolam.

**Midazolam with food and drink**

The patient must not drink alcohol while taking Midazolam. Alcohol may increase the sedative effects of this medicine and make them very sleepy.

The patient must not drink grapefruit juice while taking Midazolam. Grapefruit juice may increase the sedative effects of this medicine and make them very sleepy.

**Pregnancy**

If the patient who will be given this medicine is pregnant or breast-feeding, thinks she may be pregnant or is planning to have a baby, ask a doctor for advice before taking this medicine.

Giving high doses of Midazolam during the last 3 months of pregnancy can cause abnormal heart beat in the unborn child. Babies born after this medicine is administered during childbirth can also have poor suckling, breathing difficulties and poor muscle tone at birth.

**Breast-feeding**

Tell the doctor if the patient is breast-feeding. Even though small amounts of Midazolam may pass into breast milk, it may not be necessary to stop breast-feeding. The doctor will advise if the patient should breast-feed after being given this medicine.

**Driving and using machines**

The medicine can affect your ability to drive as it may make you sleepy or dizzy.

- Do not drive while taking this medicine until you know how it affects you.
- It is an offence to drive if this medicine affects your ability to drive.
- However, you would not be committing an offence if:
  - The medicine has been prescribed to treat a medical or dental problem and
  - You have taken it according to the instructions given by the prescriber or in the information provided with the medicine and
  - It was not affecting your ability to drive safely

Talk to you doctor or pharmacist if you are not sure whether it is safe for you to drive while taking this medicine.

Midazolam may make the patient sleepy, forgetful or affect their concentration and co-ordination. This may affect their performance at skilled tasks such as driving, riding a bicycle, or using machines.

After receiving this medicine, the patient should not drive a vehicle, ride a bicycle or operate a machine until they have completely recovered. Please discuss with your doctor if you need further advice.

**Midazolam contains sodium**

This medicine contains less than 1 mmol sodium (23 mg) per oral syringe, that is to say essentially 'sodium-free'.

**3. How to give Midazolam**

Always give this medicine exactly as a doctor has told you. Check with a doctor or pharmacist if you are not sure.

**Dosage**

Your doctor will prescribe the appropriate dose of Midazolam your child needs, generally according to your child's age. The different doses each have a different colour, which is shown on the carton, the tube and the syringe containing the medicine.

**Depending on age, your child will have received one of the following doses, in specifically colour labelled packaging:**

3 months to less than 1 year: 2.5 mg - yellow labelled packaging

1 year to less than 5 years: 5 mg - blue labelled packaging

5 years to less than 10 years: 7.5 mg - purple labelled packaging

10 years to less than 18 years: 10 mg - orange labelled packaging

**The dose is the full contents of one oral syringe. Do not give more than one dose.**

Toddlers aged from 3 months to less than 6 months should only be treated in a hospital setting where monitoring is possible and resuscitation equipment is available.

**Preparing to give this medicine**

If the child is having a seizure, allow their body to move freely, do not try to restrain them. Only move them if they are in danger from, for example, deep water, fire or sharp objects.

Support your child's head with something soft, such as a cushion or your lap.

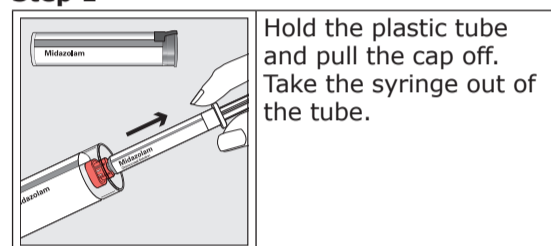
Check that the medicine is the correct dose for your child, according to their age.

**How to give this medicine**

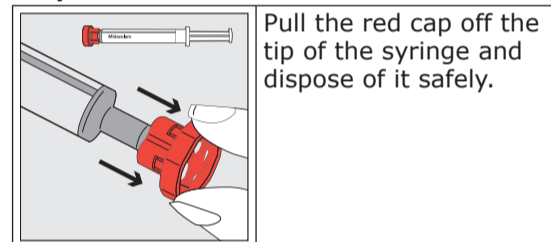
Ask a doctor, pharmacist or nurse to show you how to take or administer this medicine. Always check with them if you are not sure. The information on how to give this medicine is also shown on the tube label.

**Midazolam must not be injected. Do not attach a needle to the syringe**

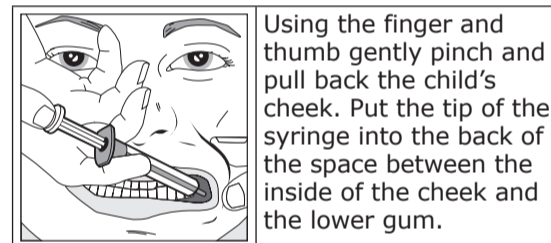
**Step 1**



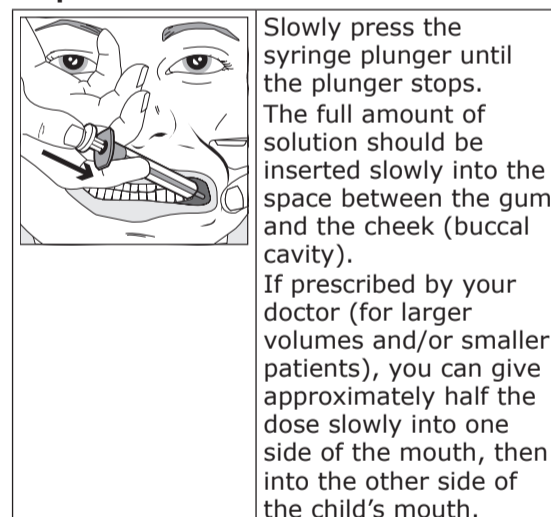
**Step 2**



**Step 3**



**Step 4**



**When to call an ambulance**

ALWAYS follow the treatment advice provided by the patient's doctor or as explained by a healthcare professional. If in any doubt, call for immediate medical help if:

- The seizure does not stop within 10 minutes
- You're unable to empty the syringe or you spill some of the contents
- The child's breathing slows down or stops e.g. slow or shallow breathing or blue lips
- You observe signs of a heart attack which may include chest pain or pain that spreads to the neck and shoulders and down the left arm
- The child is sick (vomits) and the seizure does not stop within 10 minutes
- You give too much Midazolam and there are signs of overdose which include:
  - Drowsiness, tiredness, fatigue
  - Confusion or feeling disorientated
  - Absence of knee reflex or a response to a pinch
  - Breathing difficulties (slow or shallow breathing)
  - Low blood pressure (giddiness and feeling faint)
  - Coma

Keep the syringe to show to the ambulance staff or doctor.

Do not give more than the amount of medicine prescribed by a doctor for the patient.

**If the child is sick (vomits)**

- Do not give the patient another dose of Midazolam.

- If the seizure does not stop within 10 minutes, call an ambulance. If you have any further questions on the use of this medicine, ask a doctor or pharmacist.

**4. Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them.

**Serious side effects**

Seek medical advice immediately or telephone for an ambulance if the patient experiences the following:

- Severe breathing difficulties e.g. slow or shallow breathing or blue lips. In very rare cases breathing might stop.
- Heart attack. Signs may include chest pain which may spread to the child's neck and shoulders and down their left arm.
- Swelling of the face, lips, tongue or throat which makes it difficult to swallow or breathe, or a pale skin, a weak and rapid pulse, or feeling of loss of consciousness. You may be having a serious allergic reaction.

**Other side effects**

If the patient gets any side effects, talk to their doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet.

Common side effects (may affect up to 1 in 10 people):

- Feeling and being sick
  - Sleepiness or losing consciousness
- Uncommon side effects (may affect up to 1 in 100 people):
- Rash, hives (lumpy rash), itchiness

Very rare side effects (may affect up to 1 in 10,000 people):

- Agitation, restlessness, hostility, rage or aggression, excitement, confusion, euphoria (an excessive feeling of happiness or excitement), or hallucinations (seeing and possibly hearing things that are not really there)
- Muscle spasms and muscle tremors (shaking of your muscles that you cannot control)
- Reduced alertness
- Headache
- Dizziness
- Difficulty co-ordinating muscles
- Fits (convulsions)
- Temporary memory loss. How long this lasts depends on how much Midazolam was given
- Low blood pressure, slow heart rate, or redness of the face and neck (flushing)
- Laryngospasm (tightening of the vocal cords causing difficult and noisy breathing)
- Constipation
- Dry mouth
- Tiredness
- Hiccups

**Reporting of side effects**

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via Yellow Card Scheme, Website: [www.mhra.gov.uk/yellowcard](http://www.mhra.gov.uk/yellowcard) or search for MHRA Yellow Card in the Google Play or Apple App Store.

By reporting side effects you can help provide more information on the safety of this medicine.

**5. How to store Midazolam**

**Keep this medicine out of the sight and reach of children.**

Do not give this medicine after the expiry date which is stated on the carton, tube and oral syringe labels after EXP. The expiry date refers to the last day of that month.

Do not refrigerate or freeze. Keep the oral syringe in the protective plastic tube.

**Disposal of oral syringes**

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help to protect the environment.

**6. Contents of the pack and other information**

**What Midazolam contains**

- The active substance is midazolam
- Each 2.5 mg pre-filled oral syringe contains 2.5 mg midazolam (as hydrochloride) in 0.5 ml solution.
- Each 5 mg pre-filled oral syringe contains 5 mg midazolam (as hydrochloride) in 1 ml solution.
- Each 7.5 mg pre-filled oral syringe contains 7.5 mg midazolam (as hydrochloride) in 1.5 ml solution.
- Each 10 mg pre-filled oral syringe contains 10 mg midazolam (as hydrochloride) in 2 ml solution.

The other ingredients are sodium chloride, water for injections, hydrochloric acid and sodium hydroxide (for pH adjustment).

**What Midazolam looks like and contents of the pack**

3 months to less than 1 year: 2.5 mg  
- yellow labelled packaging

1 year to less than 5 years: 5 mg  
- blue labelled packaging

5 years to less than 10 years: 7.5 mg  
- purple labelled packaging

10 years to less than 18 years: 10 mg  
- orange labelled packaging

Midazolam oromucosal solution is a clear, colourless to yellowish liquid. It is supplied in an amber coloured pre-filled, single-use oral syringe. Each oral syringe is individually packed in a protective plastic tube. Midazolam is available in cartons containing 2 and 4 pre-filled oral syringes/tubes (of the same dose). Not all pack sizes may be marketed.

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