

Preparing and Giving Intranasal Midazolam (Versed)

A video showing how to prepare and give intranasal midazolam (vials) can be found at: <https://tinyurl.com/INmidazolam>.

What is intranasal midazolam and when is it used?

Midazolam, also called Versed, is a medicine used to stop a seizure that has lasted too long. It's also used if many seizures happen in a short period of time. Give it to your child by spraying it on the skin inside the nose (intranasal injection) using a syringe and atomizer. The atomizer is the little, white, mushroom shaped button placed on the end of the syringe. It turns the liquid into a mist that goes into the nose.

What you need to know before using midazolam:

Before using this medicine, make sure you know **how much** medicine you'll give your child and **when** to give it. It's a good idea to keep this paper with the medicine.

Midazolam Dose

Based on 5mG/mL concentration.

Keep in mind, mG and mL are not the same. mG measures the dose or strength of the medicine. mL measures the amount or volume of the medicine to give.

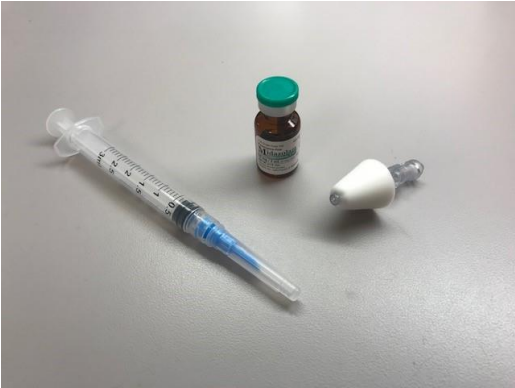


Total Dose (mG) prescribed	Total Amount (mL) to give	Amount (mL) to give in each nostril
2 mG	0.4 mL	0.2 mL
3 mG	0.6 mL	0.3 mL
4 mG	0.8 mL	0.4 mL
5 mG	1 mL	0.5 mL
6 mG	1.2 mL	0.6 mL
7 mG	1.4 mL	0.7 mL
8 mG	1.6 mL	0.8 mL
9 mG	1.8 mL	0.9 mL
10 mG	2 mL	1 mL

Your neurology team will highlight your child's dose in the chart above. For doses 5 mG and under, the pharmacy will give you a **1 mL** size vial. For doses over 5mG, you will be given a **2 mL** size vial.

Follow your Neurologist's instructions on **when** to give your child intranasal midazolam. You should **never** give more than 1mL per nostril.

Midazolam Preparation

Your pharmacy will give you midazolam in a vial. Follow the instructions below.

<p>Step 1: Gather your supplies. Your supplies, medicine, and instructions should be kept together.</p> <ul style="list-style-type: none">• Medicine (vial)• Syringe• Atomizer (white mushroom shaped device)• Plastic or metal needle	
<p>Step 2: Take the protective cap off the vial of midazolam.</p>	
<p>Step 3: Connect the syringe and needle by twisting or pushing together. Push the needle into the middle of the rubber seal.</p>	

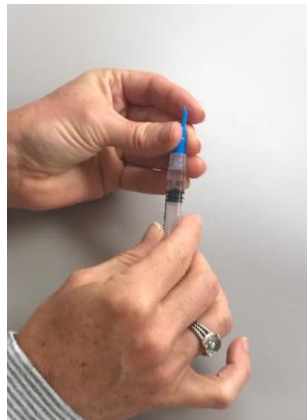
Step 4: Tip the vial upside down so the syringe is on the bottom and the vial's rubber seal faces down. Make sure the tip of the needle is in the liquid.



Step 5: Pull the plunger back and let the syringe fill with medicine. Look inside the bottle to make sure the tip of the needle is in the liquid the whole time. Pull the plunger back until the syringe fills to the **total dose** prescribed for your child. Make sure the syringe doesn't have any large air bubbles.



Step 6: Remove the needle from the syringe by twisting it off.

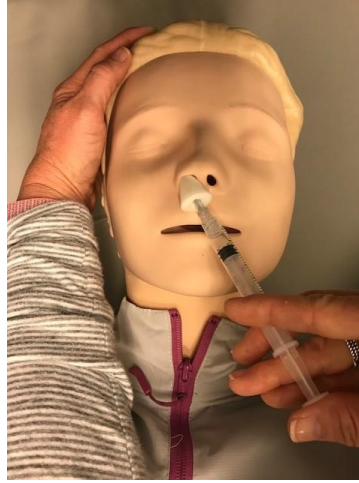


Step 7: Attach the atomizer by twisting it onto the end of the syringe.



Giving Midazolam

Step 1: Use your free hand to hold your child's head still. Put the tip of the atomizer tightly against the nostril, aiming slightly up and out toward the top of the ear.



Step 2: Quickly push the syringe plunger to give half the medicine into one nostril.



Step 3: Move the syringe over to the other nostril and give the rest of the medicine into that nostril.

Note the time you gave the medicine.



Helpful Tips

- Practice using the equipment with water. Practice drawing up the correct amount and attaching the atomizer. Practice as many times as you need to, so you feel comfortable.
 - **Don't open the vial until you need to use it.**
 - **Don't practice on your child.**
- Once opened, the vial is good for **12 hours**. Write the expiration date and time on it with a permanent pen. Throw it away after the expiration date and make sure you have a refill from the pharmacy.
 - If you pulled the medicine into the syringe and did not give it, this medicine is good for **1 hour**. After this time, throw the medicine away.
- Not all pharmacies have midazolam or the supplies to give it.
 - Consider picking this up at the pharmacy here at Children's on the 1st floor.
 - If you do not have the medicine, call 911 when your child's seizure starts
 - If you are unable to get the medicine or atomizer kit from the pharmacy, please call the Neurology Clinic.
- You, your doctor, or nurse can use a permanent marker to draw a line on the syringe to show the **total** amount to give. That way you don't make a mistake when you are scared or nervous.

For questions or concerns, please call:

- [Anschutz Neurology Department at 720-777-6895.](tel:720-777-6895)
- [Colorado Springs Neurology Department at 719-305-9050](tel:719-305-9050)