Intranasal Midazolam Administration *Midazolam 15 mg/3mL Ampoule*
This leaflet illustrates the proper method of ampoule breaking and administering midazolam intranasally from the ampoule.

**Note:** Ensure nose is not blocked prior to administration of midazolam

**Step 1:**
- Remove blunt needle cover
  (Do not dispose blunt needle cover)
- Assemble the blunt needle and the syringe as shown in this picture

**Step 2:**
- Gently swirl the ampoule until all the solution is at the bottom as shown in the picture on the right
- The solution should be clear; do not use if cloudy.

**Step 3:**
- Hold the bottom part of the ampoule between the thumb and first finger of one hand.
- Ensure that the spot on the ampoule is facing away from you.
- If possible, cover the top of the ampoule with a tissue or towel before holding the top between the thumb and first finger of your other hand
- Snap the top of the ampoule off by pushing away from the side with the spot (in the direction of the arrow).

**Step 4:**
- Place the assembled needle and syringe into the ampoule as shown
- Withdraw the prescribed volume of solution
- Hold the syringe upright with nozzle facing up against the light to check that the solution is clear
- Expel trapped air if present. Withdraw midazolam again if volume falls below prescribed
- Cap the blunt needle once the required volume has been withdrawn
- Remove the capped needle

**Step 5:**
- Assemble the atomizer to the syringe as shown

**Step 6:**
- Lie the child on a flat surface
- Place the assembled atomizer and the syringe firmly on the nostril
- Press the plunger of the syringe quickly to administer about half of the volume as atomised spray into a nostril
- Move the device over to the opposite nostril and administer the remaining medication into that nostril

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**Intranasal midazolam dosing chart**

<table>
<thead>
<tr>
<th>Patient age in months</th>
<th>Weight</th>
<th>Dose (mg)</th>
<th>Volume (5mg/ml)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 month to 5 months old</td>
<td>6 kg</td>
<td>1.2 mg</td>
<td>0.3 ml</td>
</tr>
<tr>
<td>6 month old and older</td>
<td>6.1 to 8 kg</td>
<td>1.6 mg</td>
<td>0.4 ml</td>
</tr>
<tr>
<td></td>
<td>8.1 to 10 kg</td>
<td>2 mg</td>
<td>0.5 ml</td>
</tr>
<tr>
<td></td>
<td>10.1 to 14 kg</td>
<td>3 mg</td>
<td>0.7 ml</td>
</tr>
<tr>
<td></td>
<td>14.1 to 20 kg</td>
<td>4.2 mg</td>
<td>0.9 ml</td>
</tr>
<tr>
<td></td>
<td>20.1 to 28 kg</td>
<td>6 mg</td>
<td>1.3 ml</td>
</tr>
<tr>
<td></td>
<td>28.1 to 35 kg</td>
<td>8.4 mg</td>
<td>1.8 ml</td>
</tr>
<tr>
<td>Teenager or adult</td>
<td>35.1 kg or more</td>
<td>10 mg</td>
<td>2 ml</td>
</tr>
</tbody>
</table>

* Volume is based on the calculated dose plus 0.10 ml dead space in the device

For children 1 month to 5 months old, intranasal midazolam is dosed at 0.2mg/kg/dose.
For children of 6 months old to adults, intranasal midazolam is dosed at 0.2 – 0.3mg/kg/dose. Max of 10mg/dose.

**Maintenance of accessories:**
- To flush accessories (atomizer, blunt needle and syringe) with water after use
- Dry them thoroughly
- Store them together with the midazolam ampoules in a cool dry place, away from sunlight

**Note:** Accessories are only available for purchase at outpatient pharmacy during office hours only