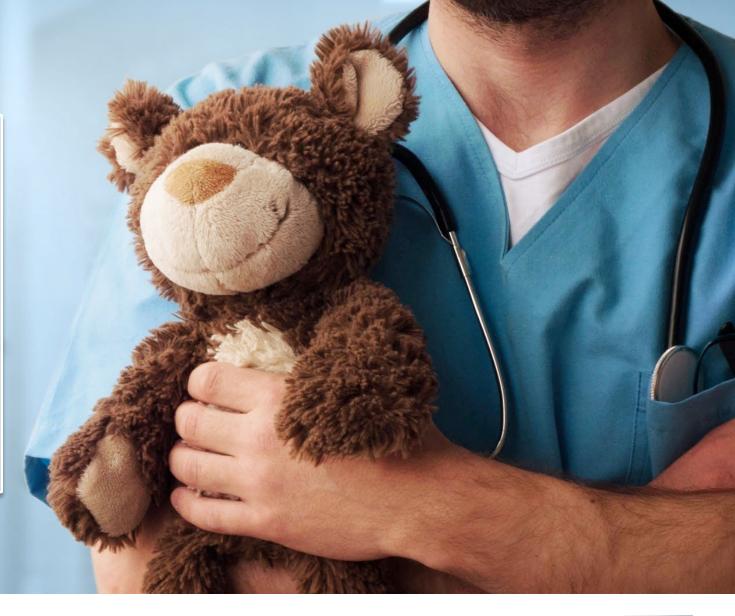
Keep Calm and Chill On:
Intranasal Versed for
Pediatric Anxiolysis in
the Community
Emergency Department





# Learning Objectives

Upon completion of this presentation, you will be able to:

- ► Define pharmacologic anxiolysis
- ▶ Identify and calculate recommended pediatric weight based anxiolytic dosing of intranasal (IN) versed
- ▶ Describe monitoring parameters required for pediatric patients receiving intranasal versed for anxiolysis
- Demonstrate appropriate administration of intranasal medication using atomizer

# Pharmacologic Anxiolysis

Defined as a drug-induced state during which:

- ► Patient responds normally to verbal commands
- Respiratory and cardiovascular functions are unaffected
- Cognitive function and coordination may be impaired

### Intranasal (IN) Versed for Pediatric **Anxiolysis**



#### **Onset of Action**

#### Pediatric Dosing

#### Safety Considerations

#### Fast onset and short acting

- Onset: 3-5 minutes
- Peak Effect: 35 minutes
- 0.5mg/kg (max dose=10mg)
- Redosing with 0.5mg/kg (max=10 mg) is OK 35 minutes after the initial dose for prolonged procedures

• When using more than one agent (IN Versed and opioid), refer to hospital sedation policy

- Versed does NOT provide analgesia
- Utilize LET/LMX/EMLA, Lidocaine, Ibuprofen/ Acetaminophen, oral sucrose as indicated

## Why do we like IN Versed for pediatric anxiolysis?

SAFE

Respiratory and cardiovascular functions are unaffected

SIMPLE

Use of IN Versed for anxiolysis in pediatrics is <a href="NOT">NOT</a> conscious or moderate sedation

**EFFECTIVE** 

A single dose is effective in achieving anxiolysis for the majority of pediatric patients

PATIENT-CAREGIVER
SATISFIER

IN Versed causes anxiolysis and anterograde amnesia



### Indications for Use















# Nursing Considerations

- ► NO 1:1 nursing observation
- ► <u>NO</u> cardiac or respiratory monitoring
- ► NO IV insertion
- ► NO NPO requirement



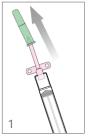


### Pediatric Administration Tips

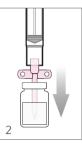
- Have younger patients sit on caregiver's lap
- ▶ Draw up additional 0.1 ml to account for atomizer dead space
- Maximum volume=1 ml for each nostril
- ► Administer IN medication <u>simultaneously</u> in both nares
- Medication will be absorbed quickly through nasal mucosa despite patient trying to "spit" medication out
- Patients may complain of burning sensation. Offer sip of juice after administration
- Place side rails up for safety
- ▶ Dim lights and decrease stimulation in the room
- Allow 10 minutes before RN and provider return to room to begin setting up for procedure

#### Using the MAD Nasal<sup>tm</sup> Intranasal Mucosal Atomization Device

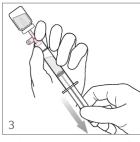
#### Procedure



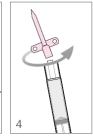
Remove and discard the green vial adapter cap



Pierce the medication vial with the syringe vial adapter



Aspirate the proper volume of medication required to treat the patient (including medication to account for the dead space in the device)



Remove (twist off) the syringe from the vial adapter



Attach the MAD Nasal Device to the syringe via the luer lock connector



Using the free hand to hold the occiput of the head stable, place the tip of the MAD Nasal Device snugly against the nostril aiming slightly up and outward (toward the top of the ear)



Briskly compress the syringe plunger to deliver half of the medication into the nostril



Move the device over to the opposite nostril and, repeating steps 6 and 7, administer the remaining medication into the nostril if indicated



# Preparing the Caregiver

#### The child will...

- ▶ Be awake throughout the procedure
- Appear intoxicated
- ► Respond to painful interventions
- ► Not remember the event





## Discharge Home

- ▶ Child can have something to drink (or popsicle) once procedure is done
- ➤ To prevent injuries/falls at home, parents should be advised child should avoid activities requiring concentration or coordination such as climbing stairs unsupervised, running, bike riding, swings, trampolines or swimming upon discharge
- ► Children can resume normal activities the following day

#### References

American Society of Anesthesiologists, Continuum of Depth of Sedation: Definition of General Anesthesia and Levels of Sedation/Analgesia, Last amended on October 23, 2019.

Lane, Roni D. MD & Schunk, Jeff E. MD (2008). Atomized Intranasal Midazolam Use for Minor Procedures in the Pediatric Emergency Department. *Pediatric Emergency Care*, 24 (5), 300-303.

MAD Nasal™ Device Animation Video:

https://www.teleflex.com/usa/en/productareas/emergency-medicine/intranasal-drug-delivery/madnasal-intranasal-device/index