

MIDAZOLAM

Comfort Kids Program 2016

OBJECTIVES

- To understand what midazolam is.
- To compare oral versus intravenous midazolam
- To increase confidence in using midazolam in the clinical setting.
- To competently manage the patient receiving intravenous midazolam in the clinical setting.
- To be prepared for the possibility of an adverse event and its appropriate management.

WHAT IS MIDAZOLAM?

- Benzodiazepine.
- Sedative that reduces anxiety and produces amnesia.
- Administration
orally (bitter) intranasal (burn) intravenously (credentialed staff only)
- Absorption varies depending on route.
- Midazolam has **no analgesic effect**.

ORAL MIDAZOLAM

PROS

- Convenient
- Painless

CONS

- Tastes bitter
- Prolonged sedation to procedure time
- Erratic absorption
- Longer recovery time than IV

INTRAVENOUS MIDAZOLAM

PROS

- Easy to administer to patient with IV access
- Can be controlled with titration
- Shorter recovery time than oral

CONS

- Need IV access
- Need to know how to titrate
- Credentialed staff limits use

TITRATION

Necessary to avoid over sedation

> 6 months & < 50kg

- **Mix 0.1mg/kg of midazolam into 10mL 0.9% normal saline**
 - 1mL bolus doses (> 6months < 12months) 5 minutely
 - 1- 2mL (>12months < 50kg) 3 minutely
- **Do not exceed total dose**
 - **0.15 mg/kg in 15mL 0.9% normal saline**

TITRATION

Necessary to avoid over sedation

➤ 50kg

- **Mix 5mg midazolam into 10mL 0.9% normal saline**
 - 1-2 mL bolus doses 3 minutely
- **Do not exceed total dose**
 - 7.5mg in 15mL 0.9% normal saline

PRIOR TO SEDATION

- Sedation Narrator pre –sedation checklist
- Assess risk & consultation
- Order per EMR Procedural Sedation order set
- Fasting - different for oral and IV
- Consent – verbal on Sedation Narrator
- Accredited staff member to give sedation and stay with patient throughout sedation period

ADVERSE REACTIONS

- Cardio respiratory depression
- Emergence delirium
- Paradoxical excitement
- Difficult to manage behaviour
- **Monitor** UMSS Vital signs, **& BP (5 minutely)**

Report and **Document** all adverse reactions on the Sedation Narrator and per RCH procedure

REVERSAL AGENT

- Reversal agent for all benzodiazepines is **FLUMAZENIL**
- Dose – 5 mcg/kg every 60 seconds to a total of 40 mcg/kg
- Must be immediately on hand when administering midazolam

QUESTIONS?

