# Intravenous Midazolam® for procedures

# **Facts**

IV midazolam titrated and given as incremental boluses is a safe method of delivery, providing the risk factors are considered prior to administration and the child is adequately monitored.

# **Pharmacodynamics**

- Anxiolytic relieves anxiety/sedative/amnesic
- No analgesic effect

Duration of effect	Onset of action
Effect may last 30-60 minutes	1–5 minutes
	Incremental boluses to achieve 'anxiolytic effect' to safely execute the procedure*
* The desired effect is the relief of 'anxiety' rather than sedation	

### Dose

	weight 50kgDrug interactions, caution with drugs which cause sedation, respiratory depression or hypotension
dilute to 10mls of dilute to 10mls of dilute to	idazolam(e.g. opioids, benzodiazepines, antihistamines, antihypertensives)10mls of mal saline• Cardiorespiratory instability e.g. altered depth and/or rate
Bolus: Give 1ml and repeat bolus at intervals of no less than 5 minutes to achieve or maintain anxiolysis* Bolus: Give 1–2mls and repeat bolus at intervals of no less than 3 minutes to achieve or maintain anxiolysis	<ul> <li>of respiration, apnoea, and low blood pressure</li> <li>Previous failure to sedate or paradoxic excitement with midazolam</li> <li>Further information: Clinical Practice Guidelines</li> </ul>
of 0.15mg/kg in 15mls of of 0.15mg/kg in 15mls of of 7.5mg i	<ul> <li>Procedural Sedation' www.rch.org.au/</li> <li>comfortkids/professional.cfm?doc_id=10138</li> <li>Acknowledgements: RCH Department of</li> <li>Anaesthesia and Pain Management, Comfort Kids</li> <li>Program, RCH. University of Michigan Sedation</li> </ul>
* Monitor blood pressure 5 minutely, saturations and UMMS score	Score (UMSS). MIMS Pharmacy.
For procedural sedation consultations contact: the Children's Pain Management Service/Comfort Kids or the In-Charge Anaesthetist	

## **Documentation**

**Utilise the Record of Sedation** for Procedures (MR56S) for fasting/ observations/documentation requirements

# Side effects

Rapid administration of IV midazolam increases the risk of cardiorespiratory depression.

# **Adverse effects**

- Excessive sedation (UMSS score  $\geq 2$ )
- Respiratory depression/apnoea
- Airway obstruction
- Hypotension, especially in patients with impaired cardiovascular stability
- Delirium/paradoxical agitation
- Hiccups
- Impaired coordination/balance. Patients are at risk for falls.

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