



Policy code	DTP_LORAZ_1122	
Date	November, 2022	
Purpose	To ensure a consistent procedural approach to lorazepam administration.	
Scope	Applies to all Queensland Ambulance Service (QAS) clinical staff.	
Health care setting	Pre-hospital assessment and treatment.	
Population	Applies to all ages unless specifically mentioned.	
Source of funding	Internal – 100%	
Author	Clinical Quality & Patient Safety Unit, QAS	
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Drug class

Benzodiazepine^[1,2]

Pharmacology

Benzodiazepines potentiate the inhibitory effects of GABA throughout the CNS, resulting in anxiolytic, sedative, hypnotic, muscle relaxant and antiepileptic effects. [1,2]

Metabolism

Liver metabolism, excreted by the kidneys [1]



Indications

Post-ictal acute psychosis
 (as specifically authorised in AMP 139/12)



Contraindications

• Allergy AND/OR Adverse Drug Reaction



Precautions

• Nil in this setting



Side effects [1,2]

- Hypotension
- Respiratory depression
- Arrhythmias

Presentation

- Ampoule, 2 mg/1 mL lorazepam: OR
- Ampoule, 4 mg/1 mL lorazepam

Onset (peak)	Duration	Half-life
2–3 hours (IM) 15 minutes (IV)	Variable	12–14 hours

Schedule

• S4 (Restricted drugs).

Routes of administration

Intramuscular injection (IM)



Intravenous injection (IV)



Special notes

- Ambulance officers must only administer medications for the listed indications and dosing range. Any consideration for treatment outside the listed scope of practice requires mandatory approval via the QAS Clinical Consultation and Advice Line.
- All lorazepam administrations must be from the patient's own supplies. Lorazepam will not be carried by QAS.
- Lorazepam strengths and presentations may vary.
 Ambulance clinicians must check the presentation of the product being administered and refer to the relevant preparation instructions within the DTP.
- Lorazepam is highly irritant, extravasation may cause significant tissue damage. Monitor the injection site closely.
- Paramedics should be cognizant and prepared for any complication associated with the cumulative effects of benzodiazepines.
- All cannulae and IV lines must be flushed thoroughly with sodium chloride 0.9% following each medication administration.

Paediatric dosages

Note: QAS officers are **NOT** authorised to administer lorazepam to paediatric patients.

Adult dosages [1,2]

Post-ictal acute psychosis

(as specifically authorised in AMP 139/12)



IM

4 mg Single dose only.

Syringe preparation (2 mg/mL presentation): No preparation required. Draw up required dose into a suitably sized syringe.

Syringe preparation (4 mg/mL presentation): Dilute 4 mg/1 mL of lorazepam with 1 mL of sodium chloride 0.9% to achieve a final concentration of 4 mg/2 mL.



IV

4 mg

Slow push over 2 minutes. **Single dose only.**

Syringe preparation (2 mg/mL presentation): Dilute 4 mg/2 mL of lorazepam with 2 mL of sodium chloride 0.9% to achieve a final concentration of 4 mg/4 mL.

Syringe preparation (4 mg/mL presentation):
Dilute 4 mg/1 mL of lorazepam with 1 mL of sodium chloride 0.9% to achieve a final concentration of 4 mg/2 mL.