

Policy code	DTP_ROC_0722		
Date	July, 2022		
Purpose	To ensure a consistent procedural approach to rocuronium 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		
Review date	July, 2024		
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Rocuronium

Drug class^[1,2]

Non depolarizing skeletal muscle relaxant. [1,2]

Pharmacology

Acts by competing with the natural transmitter acetylcholine and blocks the receptors at the motor neuron endplate in striated muscle.^[1,2]

Metabolism

Hepatic with hepato-biliary excretion.^[1]

ndications

- To facilitate paralysis (for endotracheal intubation)
- **To maintain paralysis** (following endotracheal intubation)

Contraindication

- Allergy AND/OR Adverse Drug Reaction
- Muscular dystrophies AND myotonias

Precautions

- CNS or neuromuscular dysfunction where residual curarisation is likely, effect is often unpredictable.
- Cardiac and respiratory dysfunction may be potentiated.
- Renal and hepatic dysfunction may lead to prolonged neuromuscular blockade.
- Older people will have a slower onset and prolonged duration of action.
- Burn victims may develop resistance and require more frequent dosing.
- Pain at injection site
- Rash
- Hypotension

• Vial, 50 mg/5 mL rocuronium bromide

Onset	Duration	Hali-life
60–90 seconds	≈ 45 minutes	14–18 minutes

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Schedule

• S4 (Restricted drugs).

Routes of administratio

Intravenous injection (IV)

- 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*.
- The actions of rocuronium can be antagonised by acetylcholinesterase inhibitors (neostigmine) or nonselective relaxant binding agents (sugammadex).
- Rocuronium is not expected to modulate the cardiovascular effects of other anaesthetic agents.
- Store at 2–8°C. Once out of refridgeration it should not be returned but rather kept at 8–30°C for a maximum of 12 weeks.
- All canulae and IV lines must be flushed thoroughly with sodium chloride 0.9% following each medication administration.
- A dose of 1.2 mg/kg should provide paralysis for approximately 45 minutes.
- All parenteral medications must be prepared in an aseptic manner. The rubber stopper of all vials must be disinfected with an appropriate antimicrobial swab and allowed to dry prior to piercing.

Adult dosages [1-3]

CCP

To facili	late par	alysis (for endotracheal intubation)	
CCP	IV	QAS Clinical Consultation and Advice Line consultation and approval required in all situations. 1.2 mg/kg Single dose only.	
To main	tain par	alysis (following endotracheal intubation)	
E CP	IV	o.5 mg/kg PRN.	
Paediatric	c dosago	es [1-3] PRINTE	
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