



Policy code	DTP_METO_0722	
Date	July, 2022	
Purpose	To ensure a consistent procedural approach to metoprolol 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	
Information security	UNCLASSIFIED – Queensland Government Information Security Classification Framework.	
URL	https://ambulance.qld.gov.au/clinical.html	

While the QAS has attempted to contact all copyright owners, this has not always been possible. The QAS would welcome notification from any copyright holder who has been omitted or incorrectly acknowledged.

All feedback and suggestions are welcome. Please forward to: Clinical.Guidelines@ambulance.qld.gov.au

Disclaimer

The Digital Clinical Practice Manual is expressly intended for use by appropriately qualified QAS clinicians when performing duties and delivering ambulance services for, and on behalf of, the QAS.

The QAS disclaims, to the maximum extent permitted by law, all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages and costs incurred for any reason associated with the use of this manual, including the materials within or referred to throughout this document being in any way inaccurate, out of context, incomplete or unavailable.

© State of Queensland (Queensland Ambulance Service) 2022.



This work is licensed under the Creative Commons Attribution-NonCommercial-NoDerivatives V4.0 International License

You are free to copy and communicate the work in its current form for non-commercial purposes, as long as you attribute the State of Queensland, Queensland Ambulance Service and comply with the licence terms. If you alter the work, you may not share or distribute the modified work. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc-nd/4.o/deed.en

For copyright permissions beyond the scope of this license please contact: Clinical.Guidelines@ambulance.qld.gov.au

Metoprolol

July, 2022

Drug class[1,2]

 β_1 selective adrenoceptor blocker

Pharmacology

Metoprolol is a selective β_1 receptor blocker used in the treatment of cardiovascular disease. Metoprolol blocks the action of the sympathetic nervous system thereby reducing heart rate, the force of myocardial contraction and thereby reducing blood pressure and myocardial oxygen demand. [1,2]

Metabolism

Hepatic and excreted by the kidneys.[1]

Indications

• ACS (unresponsive to nitrates)

UNCONTRO

• **Heart rate control** (in the setting of ACS)

Contraindications

- Allergy AND/OR Adverse Drug Reaction
- Acute heart failure
- Heart rate < 60 beats
- Systolic BP < 90 mmHg
- Second OR third degree AV block
- Concurrent antiarrhythmic medication
- Bronchospasm OR allergic disorders which may suggest a predisposition to bronchospasm

Precaution

- History of heart failure
- First degree AV block
- Diabetes Mellitus (patient receiving insulin or oral hypoglycaemics)

Side effects[1,2]

- Hypotension
- Bradycardia
- Palpitations
- Dizziness
- Headache



Presentation

• Ampoule, 5 mg/5 mL metoprolol

Onset (V)	Duration (IV)	Half-life
1-2 minutes	5–8 hours	3-7 hours

Schedule

S4 (Restricted drugs).

Routes of administration

Intravenous injection (IV) (RSQ taskings only)

UNCONTROL



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 OAS Clinical Consultation and Advice Line.
- Metoprolol 5 mg/5 mL ampoules are not currently available
 via QAS warehouse for procurement information please
 refer to the QAS Drug Management Code of Practice.

Adult dosages [1,3]

(unresponsive to nitrates)

Heart rate control (in the setting of ACS)



IV

RSQ Clinical Coordinator consultation and approval required in all situations.

1-2 mg
Repeated every 5 minutes.
Total maximum dose 10 mg.

Paediatric dosages

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