

AMIODARONE

Read in conjunction with [Disclaimer](#)

! **HIGH RISK Medication** !

Formulary: Highly Restricted Requires Neonatologist or Cardiologist approval before commencing	
Presentation	Ampoule: 150 mg/3 mL = 50 mg/mL Oral suspension: 5 mg/mL
Classification	Antiarrhythmic
Indication	Control of ventricular and supraventricular arrhythmias
Special Considerations	Amiodarone injection contains benzyl alcohol that is associated with “gaspings syndrome” (respiratory distress, gasping, metabolic acidosis) in neonates
Monitoring	ECG and blood pressure monitoring during intravenous (IV) administration (rapid infusion may cause severe hypotension and circulatory collapse)
Compatibility	Fluids: Glucose 5% only
Incompatibility	Fluids: Sodium chloride solutions Y-site: amiodarone is incompatible with aciclovir, amoxicillin-clavulanic acid, azithromycin, cefotaxime, ceftazidime, dexamethasone, digoxin, flucloxacillin, fosfomycin, ganciclovir, heparin sodium , hydrocortisone sodium succinate, meropenem, phenobarbitone, piperacillin-tazobactam, potassium phosphates, sodium acetate, sodium bicarbonate, sodium phosphates. This list is not exhaustive – contact pharmacy for further advice.
Interactions	<ul style="list-style-type: none"> • Digoxin: Amiodarone increases digoxin concentration and risk of toxicity and also has additive effects in slowing cardiac conduction • Flecainide: Amiodarone reduces metabolism of flecainide and increases risk of its toxicity • Phenytoin: Amiodarone increases phenytoin concentration and risk of toxicity. Phenytoin may decrease amiodarone concentration, possibly decreasing its efficacy. • Rifampicin: Rifampicin may decrease amiodarone concentration and reduce its clinical effect
Side Effects Intravenous (acute treatment)	Common: Hypotension, injection site reaction, arrhythmia Rare: Hot flush, hyperhidrosis, agranulocytosis, neutropenia
Side Effects Oral (ongoing therapy)	Common: Hypothyroidism, corneal deposits, visual disturbances photosensitivity, altered taste or smell, nausea/vomiting, abdominal pain, headache, ataxia, tremor, constipation, anorexia, elevated liver enzymes, fatigue Infrequent: Arrhythmias, dry mouth, myopathy, peripheral neuropathy Rare: Alopecia, aplastic or haemolytic anaemia, thrombocytopenia, vertigo, epididymo-orchitis, pulmonary toxicity, optic neuritis, hepatotoxicity

Storage & Stability

Ampoule: Store below 25°C. Protect from light. Do not freeze.
Infusion solution: Discard 12 hours after preparation
Oral suspension: Store below 25°C. Protect from light.

ORAL

Presentation Oral suspension: 5 mg/mL (available from pharmacy)

Dosage **Supraventricular tachycardia (SVT)**
Initial dose: 5 to 10 mg/kg twice a day for 7 to 10 days
Then reduce to 5 to 10 mg/kg once a day

Administration

- Shake well before use
- Draw prescribed dose into oral/enteral syringe
- Can be given Oral/OGT/NGT
- Give with or soon after a feed

**INTRAVENOUS INFUSION**

Presentation Ampoule: 150 mg/3 mL = **50 mg/mL**

Dosage

High Risk Medication, particularly with IV administration - requires neonatologist or cardiologist approval before commencing and close monitoring during administration.

Supraventricular and ventricular arrhythmias

Loading dose: 5 mg/kg over 30 to 60 minutes, followed by

Continuous infusion: 5 microg/kg/minute, gradually increase to 15 microg/kg/minute according to response

Preparation**Loading dose**

Draw up 50 mg (1 mL) and make up to 50 mL total volume with glucose 5%

Concentration now equal to 1 mg/mL

Continuous infusion

- Draw up 15 mg (0.3mL) per kg of body weight and make up to 50 mL total volume with Glucose 5%
- *Concentration now equal to 300 microgram/kg/mL*
- This will give the following infusion rate:
1 mL/hour = 5 microgram/kg/minute

Administration**Loading dose**

- Infuse via syringe driver pump over 60 minutes
- Infusion time may vary between 20 to 120 minutes depending on clinical need

Continuous infusion

- Administer via syringe driver pump at prescribed rate
- Adjust administration rate to patient's clinical condition and urgency; give slowly to patients who have a pulse (ie, perfusing arrhythmia -atrial fibrillation, stable ventricular tachycardia)
- Do not exceed recommended IV concentrations or rates of infusion (severe hepatic toxicity may occur)
- Slow the infusion rate if hypotension or bradycardia develops

Comments

- Non-PVC tubing should be used.
- Use a central line for concentrations exceeding 2mg/mL.



Related Policies, Procedures, and Guidelines

HDWA Mandatory Policies:

[MP 0131/20: WA High Risk Medication Policy](#)

Clinical Practice Guidelines:

[Neonatology – Cardiac: Arrhythmias](#)

[Neonatology- Cardiac Arrest and Arrhythmias in NICU: Treatment Algorithms](#)

Pharmaceutical and Medicines Management Guidelines:

[High Risk Medicines](#)

References

Australian Medicines Handbook. Amiodarone. In: Australian Medicines Handbook [Internet]. Adelaide (South Australia): Australian Medicines Handbook; 2024 [cited 2024 July 01]. Available from: <https://amhonline.amh.net.au/>

Takemoto CK, Hodding JH, Kraus DM. Pediatric & neonatal dosage handbook with international trade names index : a universal resource for clinicians treating pediatric and neonatal patients. 27th ed. Hudson (Ohio): Lexicomp; 2020. P120.

Truven Health Analytics. Title e.g. Amiodarone. In: NeoFax [Internet]. Greenwood Village (CO): Truven Health Analytics; 2019 [cited 2024 July 01]. Available from: <https://neofax.micromedexsolutions.com/AIDH>

British National Formulary. BNF for Children. 2023-24 ed. London, UK: BMJ Group and Pharmaceutical Press; 2023. p. 84-85.

Society of Hospital Pharmacists of Australia. Amiodarone. In: Australian Injectable Drugs Handbook [Internet]. [St Leonards, New South Wales]: Health Communication Network; 2024 [cited 2024 July 1]. Available from: <http://aidh.hcn.com.au>

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