



MONOGRAPH

Flecainide

Scope (Staff):	Medical, Pharmacy, Nursing
Scope (Area):	All Clinical Areas

Child Safe Organisation Statement of Commitment

CAHS commits to being a child safe organisation by applying the National Principles for Child Safe Organisations. This is a commitment to a strong culture supported by robust policies and procedures to reduce the likelihood of harm to children and young people.

This document should be read in conjunction with this [DISCLAIMER](#)

! HIGH RISK MEDICINE !

QUICKLINKS

Dosage/Dosage Adjustments	Administration	Compatibility	Monitoring
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DRUG CLASS

Antiarrhythmic⁽¹⁾

Flecainide is a [High Risk Medicine](#).

INDICATIONS AND RESTRICTIONS

Flecainide is restricted for use under the direction of a Cardiologist.

****Flecainide solution is a special access scheme (SAS) product**.** [SAS application\(s\)](#) must be completed in accordance with the [TGA regulations](#).

- Suppression and prevention of life-threatening ventricular arrhythmias refractory to other treatment (e.g. sustained ventricular tachycardia)⁽²⁻⁴⁾
- Suppression and prevention of supraventricular arrhythmias (e.g. Wolff-Parkinson-White syndrome, atrial fibrillation/flutter)⁽²⁻⁴⁾
- Maintenance of sinus rhythm after cardioversion⁽¹⁾

CONTRAINDICATIONS

- Hypersensitivity to flecainide or any component of the formulation.^(2, 3, 5)
- Second- or third-degree heart block without a pacemaker.^(2, 3, 5)
- Right bundle branch block (when associated with a left hemiblock) without a pacemaker.^(3, 5)
- Cardiogenic shock/abnormal left ventricular function or history of myocardial infarction.^(2, 3, 5)
- Concurrent treatment with disopyramide.⁽¹⁾

PRECAUTIONS

- Concurrent use with other anti-arrhythmic drugs – May cause a proarrhythmic effect⁽²⁾
- Electrolyte disturbances (e.g. hypokalaemia, hyperkalaemia, hypomagnesaemia) – May increase the risk of arrhythmias. Correct before starting treatment if possible. ^(1, 3)
- Sick Sinus Syndrome – May increase the risk of significant bradycardia. Use with extreme caution and only if pacing facilities are available⁽¹⁾
- Heart failure – may worsen with flecainide use⁽¹⁾
- Paediatric patients – May experience a disproportionate increase in plasma concentrations following small changes in dose.⁽⁶⁾
- Patients with atrial flutter after surgery and patients with structural heart disease – May be at an increased risk of potentially fatal arrhythmias. Use with extreme caution after other antiarrhythmic agents have been tried or considered inappropriate. ^(1-3, 5, 6)

FORMULATIONS

Listed below are products available at PCH, other formulations may be available, check with pharmacy if required:

- 150 mg / 15 mL ampoule
- 50 mg tablet
- 5 mg/ mL solution (SAS product)

Imprest location: [Formulary One](#)

DOSAGE & DOSAGE ADJUSTMENTS

Neonates: [Refer to Neonatal Medication Protocols](#)

Oral:

- ≥ 4 weeks – 11 years: Initially 1 – 3 mg/kg/day in two to three divided doses⁽⁴⁾
 - Titrate dose every 4 days to a maximum of 8 mg/kg/day⁽⁶⁾
 - Usual maintenance range: 3 – 6 mg/kg/day⁽⁶⁾
- 12 – 17 years: Initially 50 – 100 mg twice daily⁽⁴⁾
 - Titrate up to a maximum dose of 400 mg daily

Most patients will require less than 300 mg daily.⁽⁴⁾

Intravenous:

Intravenous Flecainide is rarely indicated.
Prescribing and administration must only occur under the direction of a Consultant Cardiologist

- Intravenous administration should only be used when the rapid control of arrhythmias is required in an emergency. Oral therapy to be substituted as soon as possible.
 - At PCH, a Cardiologist, Anaesthetist, Neonatologist or Paediatric Critical Care Consultant must be present when IV flecainide is administered to a neonate.
- > 4 weeks – 17 years: 0.5 – 2 mg/kg⁽¹¹⁾ (to a maximum of 150 mg)

Renal impairment:

- Reduce dose by 25–50% if eGFR less than 35 mL/minute/1.73 m² ⁽⁴⁾
- [eGFR calculator](#)

Hepatic impairment:

- Avoid or reduce dose in severe impairment⁽⁴⁾

RECONSTITUTION & ADMINISTRATION**Oral Administration:**

- Separate doses from milk, infant formula and dairy products as absorption of flecainide may be reduced.^(3, 4)
 - If not possible (during times of reduced milk consumption such as illness or weaning), monitor closely and reduce dose if required.⁽³⁾

Intravenous Administration:

IV Flecainide must only be administered in a critical care setting (i.e. Neonatal Intensive Care Unit (NICU), Paediatric Critical Care (PCC), Theatre or Emergency Department)

- Intravenous Injection: Inject all doses over at least 10 minutes⁽⁷⁾

For all doses less than 2 mg the flecainide 150 mg/15 mL ampoule must be first diluted to allow for the accurate measurement of the dose.

The following dilution should be used:

Withdraw 1 mL (10 mg) of Flecainide and make up to 10 mL total volume with Glucose 5%

Concentration now equal to 1 mg/mL

- Dilute dose to a suitable volume with a compatible fluid to allow for administration via an infusion pump or injected undiluted (if volume is sufficient).

COMPATIBILITY (LIST IS NOT EXHAUSTIVE)**Compatible fluids:** Glucose 5%⁽⁸⁾**Compatible at Y-site:** At 2 mg/mL and 10 mg/mL of Flecainide: Insulin (Novorapid®)⁽⁸⁾**INCOMPATIBLE drugs:** No information⁽⁸⁾**MONITORING**

- ECG, blood pressure and pulse^(3, 6)
- Renal function⁽⁶⁾

Symptoms of toxicity:

- Non-cardiac manifestations: nausea, vomiting, seizures⁽⁵⁾
- Cardiotoxicity: bradycardia, hypotension, ventricular tachyarrhythmias, heart block and asystole⁽⁵⁾

Therapeutic drug monitoring:

- Therapeutic drug monitoring is not routinely performed at PCH.
- References indicate a therapeutic trough plasma level of 0.2 – 1 mg/L; paediatric patients usually respond to the lower end of the range (0.2 – 0.5 mg/L)^(5, 6)

ADVERSE EFFECTS

Common: exacerbation of arrhythmias, nausea, vomiting, diarrhoea, constipation, headache, dizziness, tinnitus, visual disturbances, fatigue, tremor, nervousness, paraesthesia, ataxia, dyspnoea, flushing, increased sweating, rash⁽¹⁾

Infrequent: bradyarrhythmia's, heart block (second- or third-degree), hallucinations, amnesia, confusion⁽¹⁾

Rare: cardiac arrest, sudden death, hepatic dysfunction⁽¹⁾

STORAGE

Ampoule: Store below 30°C. Protect from light⁽²⁾

Tablets: Store below 30°C⁽²⁾

Oral Solution: Store below 25°C. Do not refrigerate or freeze (crystallisation may occur)⁽⁹⁾

INTERACTIONS

This medication may interact with other medications; consult PCH approved references (e.g. [Clinical Pharmacology](#)), a clinical pharmacist or PCH Medicines Information Service on extension 63546 for more information.

****Please note:** The information contained in this guideline is to assist with the preparation and administration of **Flecainide**. Any variations to the doses recommended should be clarified with the prescriber prior to administration**




Related CAHS internal policies, procedures and guidelines

[High Risk Medicines \(CAHS Policy Manual\)](#)

References

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