

### ● SIDE-EFFECTS

- ▶ **Rare or very rare** Alopecia · memory loss · mood altered · neuromuscular dysfunction · postural hypotension · psychosis · skin reactions · thrombocytopenia
- ▶ **Frequency not known** Hypoglycaemia

**Overdose** Severe overdoses with propranolol may cause cardiovascular collapse, CNS depression, and convulsions.

- **HEPATIC IMPAIRMENT** Manufacturer advises caution (increased risk of hepatic encephalopathy; risk of increased half-life).

**Dose adjustments** ▶ With oral use Manufacturer advises consider dose reduction.

### ● RENAL IMPAIRMENT

**Dose adjustments** Manufacturer advises caution; dose reduction may be required.

- **DIRECTIONS FOR ADMINISTRATION** For *slow intravenous injection*, give over at least 3–5 minutes; rate of administration should not exceed 1 mg/minute. May be diluted with Sodium Chloride 0.9% or Glucose 5%. Incompatible with bicarbonate.

- **PRESCRIBING AND DISPENSING INFORMATION** Modified-release preparations can be used for once daily administration.

- **MEDICINAL FORMS** There can be variation in the licensing of different medicines containing the same drug. Forms available from special-order manufacturers include: oral suspension, oral solution

### Oral solution

CAUTIONARY AND ADVISORY LABELS 8

- ▶ **Propranolol hydrochloride (Non-proprietary)**

**Propranolol hydrochloride 1 mg per 1 ml** Propranolol 5mg/5ml oral solution sugar-free | 150 ml [PoM] £23.51 DT = £23.51

**Propranolol hydrochloride 2 mg per 1 ml** Propranolol 10mg/5ml oral solution sugar-free | 150 ml [PoM] £28.45 DT = £28.45

**Propranolol hydrochloride 8 mg per 1 ml** Propranolol 40mg/5ml oral solution sugar-free | 150 ml [PoM] £36.51 DT = £36.51

**Propranolol hydrochloride 10 mg per 1 ml** Propranolol 50mg/5ml oral solution sugar-free | 150 ml [PoM] £38.51 DT = £38.51

### Modified-release capsule

CAUTIONARY AND ADVISORY LABELS 8, 25

- ▶ **Bedranol SR** (Sandoz Ltd, Almus Pharmaceuticals Ltd)

**Propranolol hydrochloride 80 mg** Bedranol SR 80mg capsules | 28 capsule [PoM] £4.16 DT = £4.95

**Propranolol hydrochloride 160 mg** Bedranol SR 160mg capsules | 28 capsule [PoM] £4.59-£5.09 DT = £4.88

- ▶ **Beta-Prograne** (Actavis UK Ltd, Teva UK Ltd, Tillomed Laboratories Ltd)

**Propranolol hydrochloride 160 mg** Beta-Prograne 160mg modified-release capsules | 28 capsule [PoM] £4.88-£6.11 DT = £4.88

- ▶ **Half Beta-Prograne** (Actavis UK Ltd, Tillomed Laboratories Ltd, Teva UK Ltd)

**Propranolol hydrochloride 80 mg** Half Beta-Prograne 80mg modified-release capsules | 28 capsule [PoM] £4.95 DT = £4.95

### Tablet

CAUTIONARY AND ADVISORY LABELS 8

- ▶ **Propranolol hydrochloride (Non-proprietary)**

**Propranolol hydrochloride 10 mg** Propranolol 10mg tablets | 28 tablet [PoM] £7.00 DT = £1.97

**Propranolol hydrochloride 40 mg** Propranolol 40mg tablets | 28 tablet [PoM] £7.00 DT = £2.07

**Propranolol hydrochloride 80 mg** Propranolol 80mg tablets | 56 tablet [PoM] £5.23 DT = £2.54

**Propranolol hydrochloride 160 mg** Propranolol 160mg tablets | 56 tablet [PoM] £5.88 DT = £5.88

- ▶ **Bedranol** (Ennogen Pharma Ltd)

**Propranolol hydrochloride 10 mg** Bedranol 10mg tablets | 28 tablet [PoM] £1.54 DT = £1.97

**Propranolol hydrochloride 40 mg** Bedranol 40mg tablets | 28 tablet [PoM] £1.38 DT = £2.07

**Propranolol hydrochloride 80 mg** Bedranol 80mg tablets | 56 tablet [PoM] £0.95 DT = £2.54

**Propranolol hydrochloride 160 mg** Bedranol 160mg tablets | 56 tablet [PoM] £4.70 DT = £5.88

## BETA-ADRENOCEPTOR BLOCKERS > SELECTIVE

F 109

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### Atenolol

#### ● INDICATIONS AND DOSE

#### Hypertension

##### ▶ BY MOUTH

- ▶ Neonate: 0.5–2 mg/kg once daily, dose may be given in 2 divided doses.

- ▶ Child 1 month–11 years: 0.5–2 mg/kg once daily, dose may be given in 2 divided doses, doses higher than 50 mg daily are rarely necessary

- ▶ Child 12–17 years: 25–50 mg once daily, dose may be given in 2 divided doses, higher doses are rarely necessary

#### Arrhythmias

##### ▶ BY MOUTH

- ▶ Neonate: 0.5–2 mg/kg once daily, dose may be given in 2 divided doses.

- ▶ Child 1 month–11 years: 0.5–2 mg/kg once daily, dose may be given in 2 divided doses; maximum 100 mg per day

- ▶ Child 12–17 years: 50–100 mg once daily, dose may be given in 2 divided doses

- **UNLICENSED USE** Not licensed for use in children under 12 years.

#### IMPORTANT SAFETY INFORMATION

##### SAFE PRACTICE

Atenolol has been confused with amlodipine; care must be taken to ensure the correct drug is prescribed and dispensed.

- **INTERACTIONS** → Appendix 1: beta blockers, selective

#### ● SIDE-EFFECTS

- ▶ **Common or very common** Gastrointestinal disorder

- ▶ **Rare or very rare** Alopecia · dry mouth · hepatic disorders · mood altered · postural hypotension · psychosis · skin reactions · thrombocytopenia

- ▶ **Frequency not known** Hypersensitivity · lupus-like syndrome

- **BREAST FEEDING** Water soluble beta-blockers such as atenolol are present in breast milk in greater amounts than other beta blockers.

#### ● RENAL IMPAIRMENT

**Dose adjustments** Initially use 50% of usual dose if estimated glomerular filtration rate 10–35 mL/minute/1.73 m<sup>2</sup>; initially use 30–50% of usual dose if estimated glomerular filtration rate less than 10 mL/minute/1.73 m<sup>2</sup>.

#### ● PATIENT AND CARER ADVICE

Medicines for Children leaflet: Atenolol for hypertension

[www.medicinesforchildren.org.uk/atenolol-hypertension-0](http://www.medicinesforchildren.org.uk/atenolol-hypertension-0)

- **MEDICINAL FORMS** There can be variation in the licensing of different medicines containing the same drug. Forms available from special-order manufacturers include: oral suspension, oral solution

#### Oral solution

CAUTIONARY AND ADVISORY LABELS 8

- ▶ **Atenolol (Non-proprietary)**

**Atenolol 5 mg per 1 ml** Atenolol 25mg/5ml oral solution sugar-free | 300 ml [PoM] £73.00 DT = £5.60

#### Tablet

CAUTIONARY AND ADVISORY LABELS 8

- ▶ **Atenolol (Non-proprietary)**

**Atenolol 25 mg** Atenolol 25mg tablets | 28 tablet [PoM] £1.39 DT = £0.71