

● SIDE-EFFECTS

- ▶ **Common or very common** Depression · hypersensitivity · vision blurred
- ▶ **Uncommon** Anaemia · appetite decreased · asthma · bone marrow disorders · flushing · gastrointestinal disorders · hoarseness · hypoglycaemia · malaise · muscle cramps · nervousness · proteinuria · rhinorrhoea · sleep disorders · throat pain
- ▶ **Rare or very rare** Autoimmune disorder · gynaecomastia · hepatic disorders · lymphadenopathy · oral disorders · Raynaud's phenomenon · toxic epidermal necrolysis
- ▶ **Frequency not known** Arthritis · leucocytosis · myositis · serositis · SIADH · vasculitis
- **BREAST FEEDING** Avoid in first few weeks after delivery, particularly in preterm infants—risk of profound neonatal hypotension; can be used in mothers breast-feeding older infants if essential but monitor infant's blood pressure.
- **HEPATIC IMPAIRMENT** Enalapril is a prodrug.
- **DIRECTIONS FOR ADMINISTRATION** Tablets may be crushed and suspended in water immediately before use.
- **PATIENT AND CARER ADVICE**
Medicines for Children leaflet: Enalapril for high blood pressure www.medicinesforchildren.org.uk/enalapril-high-blood-pressure

- **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

Tablet

▶ Enalapril maleate (Non-proprietary)

Enalapril maleate 2.5 mg Enalapril 2.5mg tablets | 28 tablet PoM
£5.63 DT = £5.15

Enalapril maleate 5 mg Enalapril 5mg tablets | 28 tablet PoM
£4.13 DT = £1.74

Enalapril maleate 10 mg Enalapril 10mg tablets | 28 tablet PoM
£5.64 DT = £1.81

Enalapril maleate 20 mg Enalapril 20mg tablets | 28 tablet PoM
£6.63 DT = £1.76

▶ **Innovace** (Merck Sharp & Dohme Ltd)

Enalapril maleate 2.5 mg Innovace 2.5mg tablets | 28 tablet PoM
£5.35 DT = £5.15

Enalapril maleate 5 mg Innovace 5mg tablets | 28 tablet PoM
£7.51 DT = £1.74

Enalapril maleate 10 mg Innovace 10mg tablets | 28 tablet PoM
£10.53 DT = £1.81

Enalapril maleate 20 mg Innovace 20mg tablets | 28 tablet PoM
£12.51 DT = £1.76

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Lisinopril

● INDICATIONS AND DOSE

Hypertension

▶ BY MOUTH

- ▶ Child 6–11 years (under expert supervision): Initially 70 micrograms/kg once daily (max. per dose 5 mg), increased to up to 600 micrograms/kg once daily, alternatively increased to up to 40 mg once daily, dose to be increased in intervals of 1–2 weeks
- ▶ Child 12–17 years (under expert supervision): Initially 5 mg once daily; usual maintenance 10–20 mg once daily; maximum 80 mg per day

Proteinuria in nephritis (under expert supervision)

▶ BY MOUTH

- ▶ Child 6–11 years: Initially 70 micrograms/kg once daily (max. per dose 5 mg), increased to up to 600 micrograms/kg once daily, alternatively increased to up to 40 mg once daily, dose to be increased in intervals of 1–2 weeks
- ▶ Child 12–17 years: Initially 5 mg once daily; usual maintenance 10–20 mg once daily; maximum 80 mg per day

Diabetic nephropathy (under expert supervision)

▶ BY MOUTH

- ▶ Child 12–17 years: Initially 5 mg once daily; usual maintenance 10–20 mg once daily; maximum 80 mg per day

Heart failure (adjunct) (under close medical supervision)

▶ BY MOUTH

- ▶ Child 12–17 years: Initially 2.5 mg once daily; increased in steps of up to 10 mg at least every 2 weeks; maximum 35 mg per day

- **UNLICENSED USE** Not licensed for use in children.

- **INTERACTIONS** → Appendix 1: ACE inhibitors

● SIDE-EFFECTS

- ▶ **Common or very common** Postural disorders
- ▶ **Uncommon** Hallucination · mood altered · Raynaud's phenomenon
- ▶ **Rare or very rare** Anaemia · autoimmune disorder · azotaemia · bone marrow depression · gynaecomastia · hepatic disorders · hypersensitivity · hypoglycaemia · lymphadenopathy · olfactory nerve disorder · SIADH · sinusitis · toxic epidermal necrolysis
- ▶ **Frequency not known** Depressive symptom · leucocytosis · vasculitis
- **BREAST FEEDING** Not recommended; alternative treatment options, with better established safety information during breast-feeding, are available.
- **PRESCRIBING AND DISPENSING INFORMATION** The RCPCH and NPPG recommend that, when a liquid special of lisinopril is required, the following strength is used: 20 mg/5 mL.

● PATIENT AND CARER ADVICE

- Medicines for Children leaflet: Lisinopril for high blood pressure www.medicinesforchildren.org.uk/lisinopril-high-blood-pressure

- **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

▶ Lisinopril (Non-proprietary)

Lisinopril 1 mg per 1 ml Lisinopril 5mg/5ml oral solution sugar free sugar-free | 150 ml PoM £154.11 DT = £154.11

Tablet

▶ Lisinopril (Non-proprietary)

Lisinopril 2.5 mg Lisinopril 2.5mg tablets | 28 tablet PoM £4.81 DT = £0.80 | 500 tablet PoM £11.84

Lisinopril 5 mg Lisinopril 5mg tablets | 28 tablet PoM £7.54 DT = £0.80 | 500 tablet PoM £10.93

Lisinopril 10 mg Lisinopril 10mg tablets | 28 tablet PoM £11.81 DT = £0.80 | 500 tablet PoM £10.78

Lisinopril 20 mg Lisinopril 20mg tablets | 28 tablet PoM £10.42 DT = £0.88 | 500 tablet PoM £12.75

▶ **Zestril** (AstraZeneca UK Ltd)

Lisinopril 5 mg Zestril 5mg tablets | 28 tablet PoM £9.42 DT = £0.80

Lisinopril 10 mg Zestril 10mg tablets | 28 tablet PoM £14.76 DT = £0.80

Lisinopril 20 mg Zestril 20mg tablets | 28 tablet PoM £13.02 DT = £0.88

DRUGS ACTING ON THE RENIN-ANGIOTENSIN SYSTEM > ANGIOTENSIN II RECEPTOR ANTAGONISTS

Angiotensin II receptor antagonists

- **CAUTIONS** Afro-Caribbean patients—particularly those with left ventricular hypertrophy (may not benefit from an angiotensin-II receptor antagonist) · aortic or mitral valve