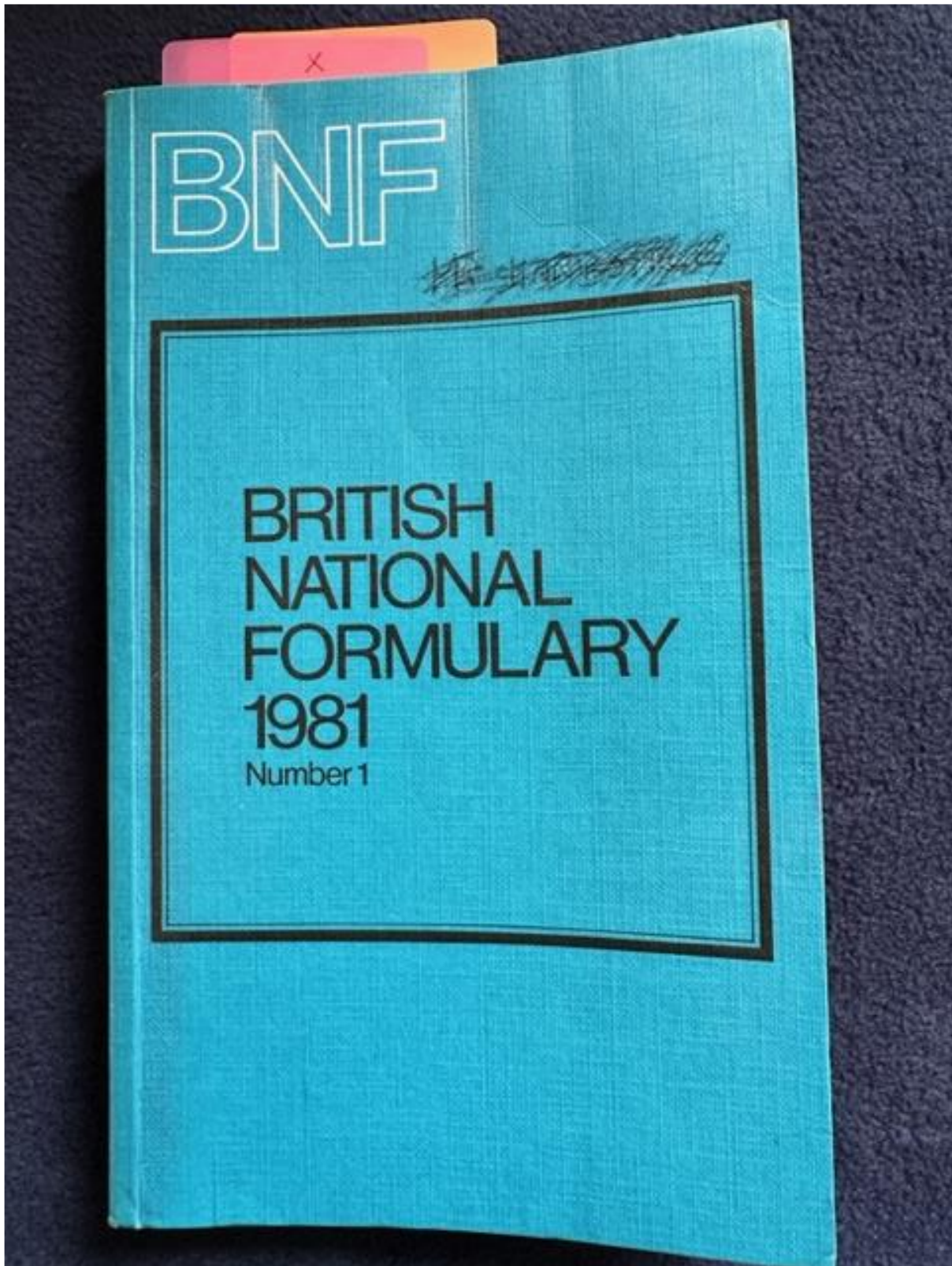


BNFS 1981 - 2023 FOR REFERENCE (AMOXICILLIN FIRST CEPHALEXIN LAST)



FLUCLOXACILLIN

Indications: osteomyelitis, pneumonia, impetigo, cellulitis, endocarditis due to *Staph. aureus*
Cautions; Contra-indications; Side-effects: see under Benzylpenicillin (section 5.1.1.1)

Dose: by mouth, 250 mg every 6 hours
 By intramuscular injection, 250 mg every 6 hours
 By slow intravenous injection, 250–500 mg every 6 hours
 CHILD, any route, $\frac{1}{2}$ – $\frac{1}{3}$ adult dose

Floxapen® (Beecham)

Capsules, black/caramel, flucloxacillin 250 mg (as sodium salt). Price 20 caps = F

Capsules, black/caramel, flucloxacillin 500 mg (as sodium salt). Price 10 caps = F

Syrup (= elixir), flucloxacillin 125 mg (as sodium salt)/5 ml when reconstituted with water for preparations. Diluent syrup, life of diluted elixir 7 days. Price 100 ml = F

Injection, powder for reconstitution, flucloxacillin (as sodium salt). Price 250-mg vial = C; 500-mg vial = D

METHICILLIN SODIUM

Indications: infections due to penicillinase-producing staphylococci

Cautions; Contra-indications; Side-effects: see under Benzylpenicillin (section 5.1.1.1)

Dose: by intramuscular or slow intravenous injection, 1 g every 4–6 hours

Celbenin® (Beecham)

Injection, powder for reconstitution, methicillin sodium. Price 1-g vial = D

5.1.1.3 BROAD-SPECTRUM PENICILLINS

Ampicillin (Penbritin®) is active against certain Gram-positive and Gram-negative organisms but is inactivated by penicillinases including those produced by *Staph. aureus* and by common Gram-negative bacilli such as *Escherichia coli*. Almost all staphylococci and one-third of *E. coli* strains are now resistant.

It can be given by mouth before food, and by injection, and is well excreted in the bile and urine. It is principally indicated for the treatment of exacerbations of chronic bronchitis and middle ear infections, both of which are usually due to *Streptococcus pneumoniae* and *Haemophilus influenzae*, and for urinary-tract infections.

Less than half of the oral dose of ampicillin is absorbed from the gut but higher blood concentrations are obtained with **talampicillin** (Talpen®), the phthalidyl ester of ampicillin.

Maculo-papular rashes commonly occur with ampicillin but are not usually related to true penicillin allergy. They are almost invariably in patients with glandular fever or chronic lymphatic leukaemia who are given this antibiotic.

Amoxycillin (Amoxil®) is a derivative of ampicillin which differs by only one hydroxyl

For all abbreviations and symbols see inside cover.

group and has a similar antibacterial spectrum. It is, however, twice as well absorbed when given by mouth, producing high blood and tissue concentrations.

AMOXYCILLIN

Indications: biliary-tract infections, otitis media, chronic bronchitis, gonorrhoea

Cautions; Contra-indications; Side-effects: see under Benzylpenicillin (section 5.1.1.1); also erythematous rashes in glandular fever and chronic lymphatic leukaemia

Dose: by mouth, 250 mg every 8 hours, doubled in severe infections; CHILD, up to 10 years, 125 mg every 8 hours

By intramuscular injection, 500 mg every 8 hours

CHILD, 50–100 mg/kg daily in divided doses

By intravenous injection or infusion, (in severe infections) 1 g every 6 hours; CHILD, 50–100 mg/kg daily in divided doses

Amoxil® (Bencard)

Capsules, maroon/gold, amoxycillin 250 mg (as trihydrate). Price 20 caps = E

Capsules, maroon/gold, amoxycillin 500 mg (as trihydrate). Price 20 caps = G

Syrup (= mixture), amoxycillin 125 mg (as trihydrate)/5 ml when reconstituted with water for preparations. Diluent syrup, life of diluted mixture 14 days. Price 100 ml = D

Syrup Forte (= strong mixture), amoxycillin 250 mg (as trihydrate)/5 ml when reconstituted with water for preparations. Diluent as above. Price 100 ml = F

Paediatric suspension, amoxycillin 125 mg (as trihydrate)/1.25 ml when reconstituted with water for preparations. Measure with pipette. Price 20 ml = E

▼ **Twinnpack** (= sachets), powder, amoxycillin (as trihydrate). Price 2 × 3-g sachets = E

Dose: 3 g in water, repeated after 12 hours
 ▼ **Injection,** amoxycillin (as sodium salt). Price 250-mg vial = B; 500-mg vial = C; 1-g vial = D

AMPICILLIN

Indications: urinary-tract infections, chronic bronchitis, invasive salmonellosis

Cautions; Contra-indications; Side-effects: see under Benzylpenicillin (section 5.1.1.1); also erythematous rashes in glandular fever and chronic lymphatic leukaemia

Dose: by mouth, 0.25–1 g every 6 hours

By intramuscular or intravenous injection, 500 mg every 4–6 hours; higher doses in meningitis

CHILD, any route, $\frac{1}{2}$ adult dose

Ampicillin Capsules, ampicillin 250 mg, price 20 caps = C; 500 mg, price 20 caps = D

Ampicillin Mixture, ampicillin 125 mg/5 ml when reconstituted with water for preparations. Diluent syrup, life of diluted mixture 7 days. Price 100 ml = C

Ampicillin Mixture, Strong, ampicillin 250 mg/5 ml when reconstituted with water for preparations. Diluent as above. Price 100 ml = D

Amfipen® (Brocades)
Capsules, red/grey, ampicillin 250 mg, price 20 caps = C

Capsules, red/grey, ampicillin 500 mg, price 10 caps = D

Syrup (= mixture), pink, ampicillin 125 mg/5 ml when reconstituted with water for preparations. Diluent as above. Price 100 ml = C

Syrup Forte (= strong mixture), pink, ampicillin 250 mg/5 ml when reconstituted with water for preparations. Diluent as above. Price 100 ml = C

Penbritin® (Beecham)
Capsules, black/red, ampicillin 250 mg (as trihydrate). Price 20 caps = D

Capsules, black/red, ampicillin 500 mg (as trihydrate). Price 20 caps = E

Paediatric tablets, scored, ampicillin 125 mg (as trihydrate). Price 20 tabs = C

Syrup (= mixture), ampicillin 125 mg (as trihydrate)/5 ml when reconstituted with water for preparations. Diluent syrup, life of diluted mixture 7 days. Price 100 ml = C

Syrup Forte (= strong mixture), ampicillin 250 mg (as trihydrate)/5 ml when reconstituted with water for preparations. Diluent as above. Price 100 ml = D

Paediatric Suspension, pink, ampicillin 125 mg (as trihydrate)/1.25 ml. Measure with pipette. Price 25 ml = D

Injection, powder for reconstitution (as sodium salt). Price 250-mg vial = B

Pentrexyl® (Bristol)
Capsules, red/grey, ampicillin 250 mg (as trihydrate). Price 20 caps = C

Capsules, red/grey, ampicillin 500 mg (as trihydrate). Price 20 caps = D

Vidopen® (Berk)
Capsules, pink/red, ampicillin 250 mg (as trihydrate). Price 20 caps = C

Capsules, pink/red, ampicillin 500 mg (as trihydrate). Price 20 caps = D

Syrup (= mixture), pink, ampicillin 125 mg (as trihydrate)/5 ml when reconstituted with water for preparations. Diluent syrup, life of diluted mixture 7 days. Price 100 ml = C

Syrup Forte (= strong mixture), pink, ampicillin 250 mg (as trihydrate)/5 ml when reconstituted with water for preparations. Diluent as above. Price 100 ml = D

Preparations containing ampicillin and cloxacillin

Ampiclox® (Beecham)
Injection, ampicillin 250 mg, cloxacillin 250 mg (as sodium salt). Price 100 ml = C

Dose: by intramuscular or intravenous injection, 1–2 vials every 4–6 hours; 2–10 years, $\frac{1}{2}$ adult dose; 2–10 years, $\frac{1}{2}$ adult dose

Ampiclox Neonatal® (Beecham)
Suspension, ampicillin 60 mg, cloxacillin 30 mg (as sodium salt). Price 100 ml = D

Relative prices: A = up to 20p, B = up to 20p, C = up to 20p, D = up to 20p, E = up to 20p, F = up to 20p, G = up to 20p, H = up to 20p, I = up to 20p, J = up to 20p, K = up to 20p, L = up to 20p, M = up to 20p, N = up to 20p, O = up to 20p, P = up to 20p, Q = up to 20p, R = up to 20p, S = up to 20p, T = up to 20p, U = up to 20p, V = up to 20p, W = up to 20p, X = up to 20p, Y = up to 20p, Z = up to 20p, AA = up to 20p, AB = up to 20p, AC = up to 20p, AD = up to 20p, AE = up to 20p, AF = up to 20p, AG = up to 20p, AH = up to 20p, AI = up to 20p, AJ = up to 20p, AK = up to 20p, AL = up to 20p, AM = up to 20p, AN = up to 20p, AO = up to 20p, AP = up to 20p, AQ = up to 20p, AR = up to 20p, AS = up to 20p, AT = up to 20p, AU = up to 20p, AV = up to 20p, AW = up to 20p, AX = up to 20p, AY = up to 20p, AZ = up to 20p, BA = up to 20p, BB = up to 20p, BC = up to 20p, BD = up to 20p, BE = up to 20p, BF = up to 20p, BG = up to 20p, BH = up to 20p, BI = up to 20p, BJ = up to 20p, BK = up to 20p, BL = up to 20p, BM = up to 20p, BN = up to 20p, BO = up to 20p, BP = up to 20p, BQ = up to 20p, BR = up to 20p, BS = up to 20p, BT = up to 20p, BU = up to 20p, BV = up to 20p, BW = up to 20p, BX = up to 20p, BY = up to 20p, BZ = up to 20p, CA = up to 20p, CB = up to 20p, CC = up to 20p, CD = up to 20p, CE = up to 20p, CF = up to 20p, CG = up to 20p, CH = up to 20p, CI = up to 20p, CJ = up to 20p, CK = up to 20p, CL = up to 20p, CM = up to 20p, CN = up to 20p, CO = up to 20p, CP = up to 20p, CQ = up to 20p, CR = up to 20p, CS = up to 20p, CT = up to 20p, CU = up to 20p, CV = up to 20p, CW = up to 20p, CX = up to 20p, CY = up to 20p, CZ = up to 20p, DA = up to 20p, DB = up to 20p, DC = up to 20p, DD = up to 20p, DE = up to 20p, DF = up to 20p, DG = up to 20p, DH = up to 20p, DI = up to 20p, DJ = up to 20p, DK = up to 20p, DL = up to 20p, DM = up to 20p, DN = up to 20p, DO = up to 20p, DP = up to 20p, DQ = up to 20p, DR = up to 20p, DS = up to 20p, DT = up to 20p, DU = up to 20p, DV = up 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ZR = up to 20p, ZS = up to 20p, ZT = up to 20p, ZU = up to 20p, ZV = up to 20p, ZW = up to 20p, ZX = up to 20p, ZY = up to 20p, ZZ = up to 20p

BNF

40

SEPTEMBER 2000

Includes
Coronary Risk
Prediction Charts

BRITISH
NATIONAL
FORMULARY

British Medical Association

Royal Pharmaceutical Society
of Great Britain

penicillinase-resistant penicillins

are now resistant to benzylpenicillin. They produce penicillinases. Flucloxacillin is not inactivated by these enzymes and is thus effective in infections caused by penicillinase-producing staphylococci, which is the reason for its use. Flucloxacillin is acid-stable and can therefore be given by mouth as well as by injection.

It is well absorbed from the gut. For patients with cholestatic jaundice see under *Staphylococcus aureus* strains resistant to methicillin.

Flucloxacillin (continued) (methicillin-resistant *Staphylococcus aureus* (MRSA) and to flucloxacillin-resistant *Staphylococcus aureus* strains) is not effective in infections caused by these organisms. Some of these organisms are only to vancomycin or teicoplanin. Other alternatives may include sodium fusidate; trimethoprim and sodium fusidate; trimethoprim and dalfopristin (section 5.1.7) for urinary-tract infections. The streptogramin antibiotics dalfopristin (section 5.1.7) and dalacin C (section 5.1.7) are not effective for MRSA but the combination of dalfopristin and dalacin C is effective for organisms resistant to other penicillins. Treatment is guided by the sensitivity of the organism.

LLIN

infections due to beta-lactamase-producing staphylococci including otitis externa, impetigo, cellulitis, osteomyelitis, and staphylococcal endocarditis (see under Benzylpenicillin (section 5.1.13)).

Under Benzylpenicillin (section 5.1.13) DICE. CSM has advised that cholestatic jaundice may occur up to several weeks after treatment with flucloxacillin has been stopped for more than 2 weeks and increasing.

Indications: see under Benzylpenicillin (section 5.1.13).

Contra-indications: see under Benzylpenicillin (section 5.1.13). Patients with cholestatic jaundice (see CSM advice above).

Dose: 250–500 mg every 6 hours, at least 2 hours before food.

Injection, 250–500 mg every 6 hours.

Oral suspension or by intravenous injection, 250–500 mg every 6 hours.

Table 1, Section 5.1, 12 g daily for 4 weeks.

Table 1, Section 5.1, up to 8 g daily in 4 doses.

Under 2 years quarter adult dose; 2–5 years half adult dose; 6–12 years 2/3 adult dose. Doses in BNF may differ from those in this monograph.

Flucloxacillin (non-proprietary) [PoM] 250 mg, net price 100 mg, 20 = £4.97. Label: 9, 23. Available from APS, Berk (*Ladropen*®), Cox, Kent, Norton.

Available from APS, Berk (*Ladropen*®), Cox, Kent, Norton.

Oral solution (= elixir or syrup), flucloxacillin (as sodium salt) for reconstitution with water, 125 mg/5 mL, net price 100 mL = £3.68. Label: 9, 23. Available from APS, Berk (*Ladropen*®), Cox, Kent, Norton.

Injection, powder for reconstitution, flucloxacillin (as sodium salt). Net price 250-mg vial = £1.02; 500-mg vial = £2.04; 1-g vial = £4.08. Available from Berk (*Ladropen*®), CP.

Floxapen® (SmithKline Beecham) [PoM] **Capsules**, both black/caramel, flucloxacillin (as sodium salt) 250 mg, net price 28-cap pack = £6.79; 500 mg, 28-cap pack = £13.61. Label: 9, 23.

Syrup, flucloxacillin (as magnesium salt) for reconstitution with water, 125 mg/5 mL, net price 100 mL = £3.49; 250 mg/5 mL, 100 mL = £6.97. Label: 9, 23.

Excipients: include sucrose. **Injection, powder for reconstitution, flucloxacillin** (as sodium salt). Net price 250-mg vial = 98p; 500-mg vial = £1.95; 1-g vial = £3.90.

Electrolytes: Na⁺ 0.57 mmol/250-mg vial, 1.13 mmol/500-mg vial, 2.26 mmol/1-g vial.

5.1.1.3 Broad-spectrum penicillins

Ampicillin is active against certain Gram-positive and Gram-negative organisms but is inactivated by penicillinases including those produced by *Staphylococcus aureus* and by common Gram-negative bacilli such as *Escherichia coli*. Almost all staphylococci, 50% of *E. coli* strains and 15% of *Haemophilus influenzae* strains are now resistant. The likelihood of resistance should therefore be considered before using ampicillin for the 'blind' treatment of infections; in particular, it should not be used for hospital patients without checking sensitivity.

Ampicillin is well excreted in the bile and urine. It is principally indicated for the treatment of exacerbations of chronic bronchitis and middle ear infections, both of which are usually due to *Streptococcus pneumoniae* and *H. influenzae*, and for urinary-tract infections (section 5.1.13) and gonorrhoea.

Ampicillin can be given by mouth but less than half the dose is absorbed, and absorption is further decreased by the presence of food in the gut.

Maculopapular rashes commonly occur with ampicillin (and amoxicillin) but are not usually related to true penicillin allergy. They almost always occur in patients with glandular fever; broad-spectrum penicillins should not therefore be used for 'blind' treatment of a sore throat. Rashes are also common in patients with chronic lymphatic leukaemia.

Amoxicillin (amoxycillin) is a derivative of ampicillin and has a similar antibacterial spectrum. It is better absorbed than ampicillin when given by mouth, producing higher plasma and tissue concentrations; unlike ampicillin, absorption is not affected by the presence of food in the stomach. Amoxicillin is used for endocarditis prophylaxis (section 5.1, table 2); it may also be used for the treatment of Lyme disease in children [not licensed].

Co-amoxiclav consists of amoxicillin with the beta-lactamase inhibitor clavulanic acid. Clavulanic

acid itself has no significant antibacterial activity but, by inactivating beta-lactamases, it makes the combination active against beta-lactamase-producing bacteria that are resistant to amoxicillin. These include resistant strains of *Staph. aureus*, *E. coli*, and *H. influenzae*, as well as many *Bacteroides* and *Klebsiella* spp. Co-amoxiclav should be reserved for infections likely, or known, to be caused by amoxicillin-resistant beta-lactamase-producing strains; for CSM warning on cholestatic jaundice see under Co-amoxiclav.

A combination of ampicillin with flucloxacillin (as co-fluampicil) is available.

AMOXICILLIN

(Amoxycillin)

Indications: see under Ampicillin; also endocarditis prophylaxis (section 5.1, table 2); adjunct in listerial meningitis (section 5.1, table 1); *Helicobacter pylori* eradication (section 1.3).

Cautions: see under Ampicillin

Contra-indications: see under Ampicillin

Side-effects: see under Ampicillin

Dose: by mouth, 250 mg every 8 hours, doubled in severe infections; CHILD up to 10 years, 125 mg every 8 hours, doubled in severe infections. Severe or recurrent purulent respiratory infection, 3 g every 12 hours.

Short-course oral therapy

Dental abscess, 3 g repeated after 8 hours

Urinary-tract infections, 3 g repeated after 10–12 hours

Gonorrhoea, 2–3 g as a single dose with probenecid 1 g

Otitis media, CHILD 3–10 years, 750 mg twice daily for 2 days

By intramuscular injection, 500 mg every 8 hours; CHILD, 50–100 mg/kg daily in divided doses

By intravenous injection or infusion, 500 mg every 8 hours increased to 1 g every 6 hours; CHILD, 50–100 mg/kg daily in divided doses

Amoxicillin (Non-proprietary) [PoM]

Capsules, amoxicillin (as trihydrate) 250 mg, net price 20 = £2.01; 500 mg, 20 = £3.58. Label: 9. Available from APS, Ashbourne (*Amix*®), Berk (*Almodan*®), Cox, DDSA, Eastern (*Amoram*®), Galen (*Galenamox*®), Hillcross, Kent, Norton, Ranbaxy (*Rimoxallin*®).

Oral suspension, amoxicillin (as trihydrate) for reconstitution with water, 125 mg/5 mL, net price 100 mL = £1.39; 250 mg/5 mL, 100 mL = £2.34. Label: 9.

Note. Sugar-free versions are available and can be ordered by specifying 'sugar-free' on the prescription. Available from APS, Ashbourne (*Amix*®), Berk (*Almodan*®), Cox, Eastern (*Amoram*®), Galen (*Galenamox*®), Hillcross, Kent, Norton, Ranbaxy (*Rimoxallin*®).

Sachets, sugar-free, amoxicillin (as trihydrate) 3 g/sachet, net price 2-sachet pack = £5.16, 14-sachet pack = £34.84. Label: 9, 13.

Available from Hillcross, Kent, Norton. **Injection**, powder for reconstitution, amoxicillin (as sodium salt), net price 250-mg vial = 34p; 500-mg vial = 63p; 1-g vial = £1.25.

Available from CP.

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*Incorporates
Prescribing in Dental
Practice, see page 20*

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BRITISH
NATIONAL
FORMULARY

British Medical Association

Royal Pharmaceutical Society
of Great Britain

lococcus aureus and by common Gram-negative bacilli such as *Escherichia coli*. Almost all staphylococci, 50% of *E. coli* strains and 15% of *Haemophilus influenzae* strains are now resistant. The likelihood of resistance should therefore be considered before using ampicillin for the 'blind' treatment of infections; in particular, it should not be used for hospital patients without checking sensitivity.

Ampicillin is well excreted in the bile and urine. It is principally indicated for the treatment of exacerbations of chronic bronchitis and middle ear infections, both of which are usually due to *Streptococcus pneumoniae* and *H. influenzae*, and for urinary-tract infections (section 5.1.13).

Ampicillin can be given by mouth but less than half the dose is absorbed, and absorption is further decreased by the presence of food in the gut.

Maculopapular rashes commonly occur with ampicillin (and amoxicillin) but are not usually related to true penicillin allergy. They almost always occur in patients with glandular fever; broad-spectrum penicillins should not therefore be used for 'blind' treatment of a sore throat. Rashes are also common in patients with acute or chronic lymphocytic leukaemia or in cytomegalovirus infection.

Amoxicillin (amoxicillin) is a derivative of ampicillin and has a similar antibacterial spectrum. It is better absorbed than ampicillin when given by mouth, producing higher plasma and tissue concentrations; unlike ampicillin, absorption is not affected by the presence of food in the stomach. Amoxicillin is used for endocarditis prophylaxis (section 5.1, table 2); it may also be used for the treatment of Lyme disease [not licensed], see below.

Co-amoxiclav consists of amoxicillin with the beta-lactamase inhibitor clavulanic acid. Clavulanic acid itself has no significant antibacterial activity but, by inactivating beta-lactamases, it makes the combination active against beta-lactamase-producing bacteria that are resistant to amoxicillin. These include resistant strains of *Staph. aureus*, *E. coli*, and *H. influenzae*, as well as many *Bacteroides* and *Klebsiella* spp. Co-amoxiclav should be reserved for infections likely, or known, to be caused by amoxicillin-resistant beta-lactamase-producing strains; for CSM warning on cholestatic jaundice see under Co-amoxiclav.

A combination of ampicillin with flucloxacillin (as co-fluampicil) is available to treat infections involving either streptococci or staphylococci (e.g. cellulitis).

LYME DISEASE. Lyme disease should generally be treated by those experienced in its management.

Doxycycline is the antibacterial of choice for early Lyme disease. **Amoxicillin** [unlicensed indication], **cefuroxime axetil**, or **azithromycin** [unlicensed indication] are alternatives if doxycycline is contra-indicated. Intravenous administration of **cefotaxime**, **ceftriaxone**, or **benzylpenicillin** is recommended for Lyme disease associated with moderate to severe cardiac or neurological abnormalities, late Lyme disease, and Lyme arthritis. The duration of treatment is generally 2-4 weeks; Lyme arthritis requires longer treatment with oral antibacterial drugs.

ORAL INFECTIONS. Amoxicillin or ampicillin are as effective as phenoxymethylpenicillin (section 5.1.1.1) but they are better absorbed; however, they may encourage emergence of resistant organisms,

Like phenoxymethylpenicillin, amoxicillin and ampicillin are ineffective against bacteria that produce beta-lactamases. Amoxicillin may be useful for short-course oral regimens. Amoxicillin is also used for prophylaxis of endocarditis (Table 2, section 5.1).

AMOXICILLIN

(Amoxicillin)

Indications: see under Ampicillin; oral infections (see notes above); also endocarditis prophylaxis (Table 2, section 5.1) and treatment (Table 1, section 5.1); anthrax (section 5.1.12); adjunct in listerial meningitis (Table 1, section 5.1); *Helicobacter pylori* eradication (section 1.3)

Cautions: see under Ampicillin

Contra-indications: see under Ampicillin

Side-effects: see under Ampicillin

Dose: by mouth, 250 mg every 8 hours, doubled in severe infections; CHILD up to 10 years, 125 mg every 8 hours, doubled in severe infections

Otitis media, 1 g every 8 hours; CHILD 40 mg/kg daily in 3 divided doses (max. 3 g daily)

Pneumonia, 0.5-1 g every 8 hours

Anthrax (treatment and post-exposure prophylaxis—see also section 5.1.12), 500 mg every 8 hours; CHILD body-weight under 20 kg, 80 mg/kg daily in 3 divided doses, body-weight over 20 kg, adult dose

Short-course oral therapy

Dental abscess, 3 g repeated after 8 hours

Urinary-tract infections, 3 g repeated after 10-12 hours

By intramuscular injection, 500 mg every 8 hours; CHILD, 50-100 mg/kg daily in divided doses

By intravenous injection or infusion, 500 mg every 8 hours increased to 1 g every 6 hours in severe infections; CHILD, 50-100 mg/kg daily in divided doses

Listerial meningitis (in combination with another antibiotic, see Table 1, section 5.1), by intravenous infusion, 2 g every 4 hours for 10-14 days

Endocarditis (in combination with another antibiotic if necessary, see Table 1, section 5.1), by intravenous infusion, 2 g every 6 hours, increased to 2 g every 4 hours e.g. in enterococcal endocarditis or if amoxicillin used alone

NOTE. Amoxicillin doses in BNF may differ from those in product literature

Amoxicillin (Non-proprietary) [PoM]

Capsules, amoxicillin (as trihydrate) 250 mg, net price 21 = £1.25; 500 mg, 21 = £1.85. Label: 9

Brands include Amix[®], Amoram[®], Amoxident[®], Galenamox[®], Rimoxallin[®]

Oral suspension, amoxicillin (as trihydrate) for reconstitution with water, 125 mg/5 mL, net price 100 mL = £1.15; 250 mg/5 mL, 100 mL = £1.80. Label: 9

NOTE. Sugar-free versions are available and can be ordered by specifying 'sugar-free' on the prescription

Brands include Amix[®], Amoram[®], Galenamox[®], Rimoxallin[®]

Sachets, sugar-free, amoxicillin (as trihydrate) 3 g/sachet, net price 2-sachet pack = £4.69, 14-sachet pack = £31.94. Label: 9, 13

Injection, powder for reconstitution, amoxicillin (as sodium salt), net price 250-mg vial = 34p; 500-mg vial = 63p; 1-g vial = £1.25

DENTAL PRESCRIBING ON NHS. Amoxicillin Capsules and Oral Suspension may be prescribed. Amoxicillin Sachets may be prescribed as Amoxicillin Oral Powder

Amoxil[®] (GS Capsules, bo drate), 250 r 500 mg, 21- Syrup SF, bo lemon-flavo reconstitution 100 mL = £2 Label: 9 Paediatric s trihydrate)/1 water, net pr lemon-flavo use of pipett Excipients: inclu Sachets SF, trihydrate) 3 strawberry: 4 Label: 9, 13 Injection, pow sodium salt), = £1.16 Electrolytes: Na

AMPICILLIN

Indications: u

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Contra-indica

Side-effects: 1

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Dose: by mout

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adult dose

Urinary-tract

CHILD under

By intramuscul

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Endocarditis (in

if necessary),

hours, increa

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alone

Listerial mening

antibiotic), by

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hours; INFANT

hours; CHILD 3

6 hours (max.

NOTE. Ampicillin

product literature

Ampicillin (Non

Capsules, ampi

500 mg, 20 = £

Brands include Ri

BNF

See +
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BNF.ORG

482 Bacterial infection

Tablet

CAUTIONARY AND ADVISORY LABELS 9, 23

► PHENOXYMETHYLPENICILLIN (Non-proprietary)

Phenoxymethylpenicillin (as Phenoxymethylpenicillin potassium) 250 mg Phenoxymethylpenicillin 250mg tablets | 28 tablet (POM) £5.00 DT price = £1.20

Oral solution

CAUTIONARY AND ADVISORY LABELS 9, 23

► PHENOXYMETHYLPENICILLIN (Non-proprietary)

Phenoxymethylpenicillin (as Phenoxymethylpenicillin potassium) 25 mg per 1 ml Phenoxymethylpenicillin 125mg/5ml oral solution | 100 ml (POM) £80.00 DT price = £14.73
Phenoxymethylpenicillin 125mg/5ml oral solution sugar free (sugar-free) | 100 ml (POM) £25.00 DT price = £16.04
Phenoxymethylpenicillin (as Phenoxymethylpenicillin potassium) 50 mg per 1 ml Phenoxymethylpenicillin 250mg/5ml oral solution | 100 ml (POM) £80.00 DT price = £14.66
Phenoxymethylpenicillin 250mg/5ml oral solution sugar free (sugar-free) | 100 ml (POM) £35.00 DT price = £16.04

PENICILLINS (BROAD-SPECTRUM)

Amoxicillin (Amoxycillin)

INDICATIONS AND DOSE

Susceptible infections (including urinary-tract infections, otitis media, sinusitis, uncomplicated community acquired pneumonia, salmonellosis, oral infections)

BY MOUTH

- Child 1-11 months: 125 mg 3 times a day; increased if necessary up to 30 mg/kg 3 times a day
- Child 1-4 years: 250 mg 3 times a day; increased if necessary up to 30 mg/kg 3 times a day
- Child 5-11 years: 500 mg 3 times a day; increased if necessary up to 30 mg/kg 3 times a day (max. per dose 1 g)
- Child 12-17 years: 500 mg 3 times a day; increased if necessary up to 1 g 3 times a day, use increased dose in severe infections
- Adult: 500 mg every 8 hours, increased if necessary to 1 g every 8 hours, increased dose used in severe infections

BY INTRAMUSCULAR INJECTION

► Adult: 500 mg every 8 hours

BY INTRAVENOUS INJECTION OR BY INTRAVENOUS INFUSION

► Adult: 500 mg every 8 hours, increased to 1 g every 6 hours, use increased dose in severe infections

Lyme disease (under expert supervision)

BY MOUTH

- Child 5-17 years: 500 mg 3 times a day for 14-21 days (for 28 days in Lyme arthritis)
- Adult: 500 mg 3 times a day for 14-21 days (for 28 days in Lyme arthritis)

Anthrax (treatment and post-exposure prophylaxis)

BY MOUTH

- Child (body-weight up to 20 kg): 80 mg/kg daily in 3 divided doses
- Child (body-weight 20 kg and above): 500 mg 3 times a day
- Adult: 500 mg 3 times a day

Dental abscess (short course)

BY MOUTH

► Adult: 3 g, then 3 g after 8 hours

Urinary-tract infections (short course)

BY MOUTH

► Adult: 3 g, then 3 g after 10-12 hours

Listerial meningitis (in combination with another antibiotic)

BY INTRAVENOUS INFUSION

► Adult: 2 g every 4 hours

Endocarditis (in combination with another antibiotic if necessary)

BY INTRAVENOUS INFUSION

► Adult: 2 g every 4 hours

Prevention of pneumococcal infection in asplenia or in patients with sickle-cell disease—if cover also needed for

Haemophilus influenzae

BY MOUTH

- Child 1 month-4 years: 125 mg twice daily
- Child 5-11 years: 250 mg twice daily
- Child 12-17 years: 500 mg twice daily

Helicobacter pylori eradication in combination with metronidazole and omeprazole

BY MOUTH

► Adult: 500 mg 3 times a day

► *Helicobacter pylori* eradication; in combination with clarithromycin and esomeprazole; or in combination with clarithromycin and lansoprazole; or in combination with metronidazole and lansoprazole; or in combination with clarithromycin and omeprazole; or in combination with clarithromycin and pantoprazole; or in combination with clarithromycin and rabeprazole

BY MOUTH

► Adult: 1 g twice daily

● UNLICENSED USE Amoxicillin doses in BNF Publications may differ from those in product literature. Amoxicillin not licensed for use for treatment of Lyme disease.

● CAUTIONS

GENERAL CAUTIONS

Acute lymphocytic leukaemia (increased risk of erythematous rashes) · chronic lymphocytic leukaemia (increased risk of erythematous rashes) · cytomegalovirus infection (increased risk of erythematous rashes) · glandular fever (erythematous rashes common) · maintain adequate hydration with high doses (particularly during parenteral therapy)

SPECIFIC CAUTIONS

► With intravenous use Accumulation of sodium can occur at high parenteral doses

● SIDE-EFFECTS

● Common or very common Nausea · vomiting

SIDE-EFFECTS, FURTHER INFORMATION

If rash occurs, discontinue treatment.

● PREGNANCY Not known to be harmful.

● BREAST FEEDING Trace amount in milk, but appropriate to use.

● RENAL IMPAIRMENT Reduce dose in severe impairment. Rashes more common. Risk of crystalluria with high doses (particularly during parenteral therapy). Accumulation of sodium from injection can occur in patients with renal failure.

● DIRECTIONS FOR ADMINISTRATION

- With intravenous use in children Displacement value may be significant when reconstituting injection, consult local guidelines. Dilute intravenous injection to a concentration of 50 mg/mL (100 mg/mL for neonates). May be further diluted with Glucose 5% or Glucose 0.9%. Sodium chloride 0.9% or 0.45% for intravenous infusion. Give intravenous infusion over 30 minutes when using doses over 30 mg/kg.
- With intravenous use in adults For intravenous infusion (Amoxil®), give intermittently in Glucose 5% or Sodium chloride 0.9%. Reconstituted solutions diluted and given without delay; suggested volume 100 mL given over 30-60 minutes or give via drip tubing in Glucose 5% or Sodium chloride 0.9%; continuous infusion not usually recommended.

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● PRESCRIBING AND DISPENSING oral liquid formulation strawberry, or lemon

● PATIENT AND CARER Patient counselling paediatric suspensions Medicines for Children infections www.medicinesforchildren.org.uk amoxicillin-bacterial-in

● PROFESSION SPECIFIC Dental practitioners should be prescribed. Amoxicillin Oral Powder may be prescribed.

● MEDICAL FORMS There can be variations containing the same

Capsule

CAUTIONARY AND ADVISORY LABELS 9, 23

► AMOXICILLIN (Non-proprietary)

Amoxicillin (as Amoxicillin) 15 capsules | 15 capsule (POM) £5.1

Amoxicillin (as Amoxicillin) 15 capsules | 15 capsule (POM) £15.00 DT price = £1

► Amoxil (GlaxoSmithKline)

Amoxicillin (as Amoxicillin) 15 capsules | 15 capsule (POM) £15.00 DT price = £1

Amoxicillin (as Amoxicillin) 21 capsules | 21 capsule (POM) £15.00 DT price = £1

Amoxicillin (as Amoxicillin) 21 capsules | 21 capsule (POM) £15.00 DT price = £1

Oral suspension

CAUTIONARY AND ADVISORY LABELS 9, 23

► AMOXICILLIN (Non-proprietary)

Amoxicillin (as Amoxicillin) 125mg/5ml oral suspension | 15 capsules | 15 capsule (POM) £25.00 DT price = £1

Amoxicillin 125mg/5ml oral suspension | 15 capsules | 15 capsule (POM) £1.21

Amoxicillin (as Amoxicillin) 250mg/5ml oral suspension | 15 capsules | 15 capsule (POM) £35.00 DT price = £1

Amoxicillin 250mg/5ml oral suspension | 15 capsules | 15 capsule (POM) £1.34

► Amoxil (GlaxoSmithKline)

Amoxicillin (as Amoxicillin) 125mg/5ml oral suspension | 15 capsules | 15 capsule (POM) £3.18

Amoxicillin (as Amoxicillin) 125mg/5ml oral suspension | 15 capsules | 15 capsule (POM) £3.18

Powder for solution

ELECTROLYTES: May contain sodium

► AMOXICILLIN (Non-proprietary)

Amoxicillin (as Amoxicillin) powder for solution | 15 capsules | 15 capsule (POM) £5.48

Amoxicillin (as Amoxicillin) powder for solution | 15 capsules | 15 capsule (POM) £15.50 DT price = £1

Amoxil (GlaxoSmithKline)

Amoxicillin (as Amoxicillin) powder for solution | 15 capsules | 15 capsule (POM) £5.48

Amoxicillin (as Amoxicillin) powder for solution | 15 capsules | 15 capsule (POM) £5.48

Amoxicillin (as Amoxicillin) powder for injection | 15 capsules | 15 capsule (POM) £9.97

Amoxil (GlaxoSmithKline)

Amoxicillin (as Amoxicillin) powder sachets | 15 capsules | 15 capsule (POM) £9.97

Amoxil (GlaxoSmithKline)

Amoxicillin (as Amoxicillin) powder sachets | 15 capsules | 15 capsule (POM) £9.97

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Prevention of pneumococcal infection in asplenia or in patients with sickle-cell disease

- ▶ BY MOUTH
- ▶ Child 1-11 months: 62.5 mg twice daily
- ▶ Child 1-4 years: 125 mg twice daily
- ▶ Child 5-17 years: 250 mg twice daily
- ▶ Adult: 250 mg twice daily

Acute sinusitis

- ▶ BY MOUTH
- ▶ Child 1-11 months: 62.5 mg 4 times a day for 5 days
- ▶ Child 1-5 years: 125 mg 4 times a day for 5 days
- ▶ Child 6-11 years: 250 mg 4 times a day for 5 days
- ▶ Child 12-17 years: 500 mg 4 times a day for 5 days
- ▶ Adult: 500 mg 4 times a day for 5 days

- UNLICENSED USE ^[EvGr] Duration of treatment for acute sinusitis adheres to national guidelines. ^[A] See Sinusitis (acute) p. 1321 for further information.

^[EvGr] Phenoxymethylpenicillin is used for the prevention of recurrent cellulitis, ^[A] but is not licensed for this indication.

^[EvGr] Phenoxymethylpenicillin is used for the prevention of recurrent erysipelas, ^[A] but is not licensed for this indication.

Phenoxymethylpenicillin doses in BNF Publications may differ from product literature.

- INTERACTIONS → Appendix 1: penicillins
- SIDE-EFFECTS Circulatory collapse · coagulation disorder · eosinophilia · faeces soft · fever · increased risk of infection · neurotoxicity · oral disorders · paraesthesia
- PREGNANCY Not known to be harmful.
- BREAST FEEDING Trace amounts in milk, but appropriate to use.
- EFFECT ON LABORATORY TESTS False-positive urinary glucose (if tested for reducing substances).

● PRESCRIBING AND DISPENSING INFORMATION For choice of antibacterial therapy, see Antibacterials, use for prophylaxis p. 548, Nose infections, antibacterial therapy p. 556, Oral bacterial infections p. 557, Oropharyngeal infections, antibacterial therapy p. 1334, Skin infections, antibacterial therapy p. 560.

● PATIENT AND CARER ADVICE

Medicines for Children leaflet: Penicillin V for bacterial infections www.medicinesforchildren.org.uk/medicines/penicillin-v-for-bacterial-infections/

Medicines for Children leaflet: Penicillin V for prevention of pneumococcal infection www.medicinesforchildren.org.uk/medicines/penicillin-v-for-prevention-of-pneumococcal-infection/

● PROFESSION SPECIFIC INFORMATION

Dental practitioners' formulary Phenoxymethylpenicillin Tablets may be prescribed.

Phenoxymethylpenicillin Oral Solution may be prescribed.

- MEDICAL FORMS There can be variation in the licensing of different medicines containing the same drug.

Oral solution

CAUTIONARY AND ADVISORY LABELS 9, 23

▶ Phenoxymethylpenicillin (Non-proprietary)

Phenoxymethylpenicillin (as Phenoxymethylpenicillin potassium) 25 mg per 1 ml Phenoxymethylpenicillin 125mg/5ml oral solution | 100 ml ^[PoM] £34.00 DT = £1.45

Phenoxymethylpenicillin 125mg/5ml oral solution sugar free sugar-free | 100 ml ^[PoM] £25.00 DT = £3.64

Phenoxymethylpenicillin (as Phenoxymethylpenicillin potassium) 50 mg per 1 ml Phenoxymethylpenicillin 250mg/5ml oral solution | 100 ml ^[PoM] £35.00 DT = £2.00

Phenoxymethylpenicillin 250mg/5ml oral solution sugar free sugar-free | 100 ml ^[PoM] £35.00 DT = £4.00

Tablet

CAUTIONARY AND ADVISORY LABELS 9, 23

▶ Phenoxymethylpenicillin (Non-proprietary)

Phenoxymethylpenicillin (as Phenoxymethylpenicillin potassium) 250 mg Phenoxymethylpenicillin 250mg tablets | 28 tablets ^[PoM] £5.00 DT = £1.32

ANTIBACTERIALS > PENICILLINS, BROAD-SPECTRUM

Amoxicillin (Amoxycillin)

● INDICATIONS AND DOSE

Susceptible infections (e.g. sinusitis, salmonellosis, etc infections)

- ▶ BY MOUTH
- ▶ Child 1-11 months: 125 mg 3 times a day; increased if necessary up to 30 mg/kg 3 times a day
- ▶ Child 1-4 years: 250 mg 3 times a day; increased if necessary up to 30 mg/kg 3 times a day
- ▶ Child 5-11 years: 500 mg 3 times a day; increased if necessary up to 30 mg/kg 3 times a day (max. per dose 1 g)
- ▶ Child 12-17 years: 500 mg 3 times a day; increased if necessary up to 1 g 3 times a day, use increased doses in severe infections
- ▶ Adult: 500 mg every 8 hours, increased if necessary to 1 g every 8 hours, increased dose used in severe infections

▶ BY INTRAMUSCULAR INJECTION

▶ Adult: 500 mg every 8 hours

▶ BY INTRAVENOUS INJECTION, OR BY INTRAVENOUS INFUSION

▶ Adult: 500 mg every 8 hours, increased to 1 g every 6 hours, use increased dose in severe infections

Community-acquired pneumonia

- ▶ BY MOUTH
- ▶ Child 1-11 months: 125 mg 3 times a day for 5 days; increased if necessary up to 30 mg/kg 3 times a day
- ▶ Child 1-4 years: 250 mg 3 times a day for 5 days; increased if necessary up to 30 mg/kg 3 times a day
- ▶ Child 5-11 years: 500 mg 3 times a day for 5 days; increased if necessary up to 30 mg/kg 3 times a day (max. per dose 1 g 3 times a day)
- ▶ Child 12-17 years: 500 mg 3 times a day for 5 days; increased if necessary up to 1 g 3 times a day
- ▶ Adult: 500 mg 3 times a day for 5 days; increased if necessary to 1 g 3 times a day

Acute exacerbation of bronchiectasis

- ▶ BY MOUTH
- ▶ Child 1-11 months: 125 mg 3 times a day for 7-14 days
- ▶ Child 1-4 years: 250 mg 3 times a day for 7-14 days
- ▶ Child 5-17 years: 500 mg 3 times a day for 7-14 days
- ▶ Adult: 500 mg 3 times a day for 7-14 days

Acute exacerbation of chronic obstructive pulmonary disease

- ▶ BY MOUTH
- ▶ Adult: 500 mg 3 times a day for 5 days, increased if necessary to 1 g 3 times a day, increased dose used in severe infections
- ▶ BY INTRAVENOUS INJECTION, OR BY INTRAVENOUS INFUSION
- ▶ Adult: 500 mg every 8 hours, increased to 1 g every 6 hours, increased dose used in severe infections

Acute cough [if systemically very unwell or at higher risk of complications]

- ▶ BY MOUTH
- ▶ Child 1-11 months: 125 mg 3 times a day for 5 days
- ▶ Child 1-4 years: 250 mg 3 times a day for 5 days
- ▶ Child 5-17 years: 500 mg 3 times a day for 5 days
- ▶ Adult: 500 mg 3 times a day for 5 days

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Acute otitis media

- ▶ BY MOUTH
- ▶ Child 1-11 months: 62.5 mg 4 times a day for 5 days
- ▶ Child 1-4 years: 125 mg 4 times a day for 5 days
- ▶ Child 5-17 years: 250 mg 4 times a day for 5 days
- ▶ Adult: 500 mg 4 times a day for 5 days

Lyme disease [erythema migrans] | Lyme peripheral neuropathy

- ▶ BY MOUTH
- ▶ Adult: 1 g 3 times a day for 5 days

Lyme arthritis | Acute Lyme disease

- ▶ BY MOUTH
- ▶ Adult: 1 g 3 times a day for 5 days

Anthrax (treatment)

- ▶ BY MOUTH
- ▶ Adult: 500 mg 3 times a day for 5 days

Dental abscess (systemic)

- ▶ BY MOUTH
- ▶ Adult: 3 g, then 1 g 3 times a day for 5 days

Listerial meningitis (antibiotic)

- ▶ BY INTRAVENOUS INJECTION
- ▶ Adult: 2 g every 8 hours for 5 days

Endocarditis (infective) (if necessary)

- ▶ BY INTRAVENOUS INJECTION
- ▶ Adult: 2 g every 8 hours for 5 days

Helicobacter pylori eradication (see Helicobacter pylori eradication)

- ▶ BY MOUTH
- ▶ Adult: 1 g twice daily for 14 days

Acute diverticulitis (metronidazole)

- ▶ BY INTRAVENOUS INJECTION
- ▶ Adult: 500 mg 1 g every 6 hours for 5 days

Prophylaxis of recurrent infections

- ▶ BY MOUTH
- ▶ Adult: 250 mg 3 times a day for 5 days, alternatively 500 mg 1 g every 6 hours for 5 days

Lower urinary-tract infection

- ▶ BY MOUTH
- ▶ Adult: 500 mg 3 times a day for 5 days

Lower urinary-tract infection (recurrent)

- ▶ BY MOUTH
- ▶ Child 3-11 months: 125 mg 3 times a day for 5 days
- ▶ Child 1-4 years: 250 mg 3 times a day for 5 days
- ▶ Child 5-15 years: 500 mg 3 times a day for 5 days

Urinary-tract infection (acute)

- ▶ BY MOUTH
- ▶ Adult: 3 g, then 1 g 3 times a day for 5 days

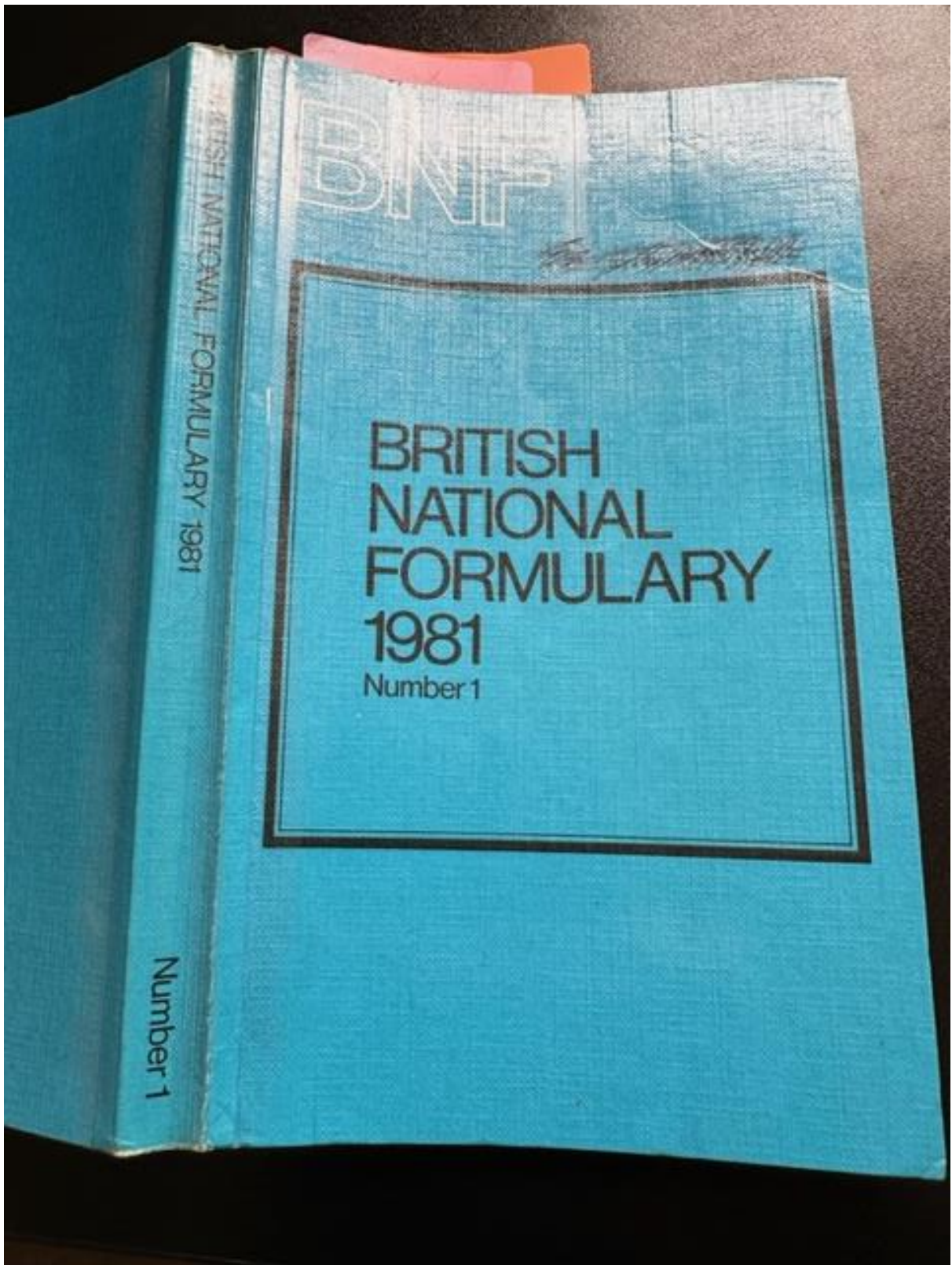
Asymptomatic bacteriuria

- ▶ BY MOUTH
- ▶ Adult: 250-500 mg 3 times a day for 5 days

Urinary-tract infection (recurrent)

- ▶ BY MOUTH
- ▶ Child 16-17 years: 500 mg 3 times a day for 5 days
- ▶ Adult: 500 mg 3 times a day for 5 days

● UNLICENSED USE may differ from product literature. ^[EvGr] Duration of treatment for acute sinusitis adheres to national guidelines. ^[A] See Sinusitis (acute) p. 1321 for further information.



Dose: by intramuscular or intravenous injection, 750 mg every 8 hours
By intravenous injection or infusion, in severe infections 1.5 g every 6-8 hours
 CHILD, 30-100 mg/kg daily in divided doses

▼ **Zinacef®** (Glaxo)
Injection, powder for reconstitution, cefuroxime (as sodium salt). Price 250-mg vial = C; 750-mg vial = E; 1.5-g vial = F

CEPHALEXIN
Indications: see under Cefaclor; not for severe infections

Cautions; Contra-indications; Side-effects: see under Cefaclor; also reduced doses in renal impairment, false-positive results for glucose in urine with reducing substances
Dose: 250-500 mg every 6 hours; CHILD, 25-50 mg/kg daily in divided doses

Cephalexin Capsules, cephalexin 250 mg, price 20 caps = E; 500 mg, price 10 caps = E

Cephalexin Tablets, cephalexin 250 mg, price 20 tabs = E; 500 mg, price 10 tabs = E

Cephalexin Mixture, cephalexin 125 mg/5 ml when reconstituted with water for preparations. Diluent, see below under Ceporex or Keflex. Price 100 ml = D

Cephalexin 250 mg/5 ml when reconstituted with water for preparations. Diluent as above. Price 100 ml = E

Ceporex® (Glaxo)
Capsules, orange/grey, cephalexin 250 mg. Price 20 caps = E

Capsules, orange/grey, cephalexin 500 mg. Price 10 caps = E

Tablets, pink, f/c, cephalexin 250 mg. Price 20 tabs = E

Tablets, pink, f/c, cephalexin 500 mg. Price 10 tabs = E

Paediatric drops, orange, cephalexin 125 mg/1.25 ml when reconstituted with water for preparations. Measure with dropper. Price 10 ml = D

Suspension, yellow, cephalexin 125 mg/5 ml. Do not dilute. Price 100 ml = D

Suspension, yellow, cephalexin 250 mg/5 ml. Do not dilute. Price 100 ml = E

Syrup (= mixture), orange, cephalexin 125 mg/5 ml when reconstituted with water for preparations. Diluent water for preparations, life of diluted mixture 7 days. Price 100 ml = D

Syrup (= mixture), orange, cephalexin 250 mg/5 ml when reconstituted with water for preparations. Diluent as above. Price 100 ml = E

Syrup (= mixture), orange, cephalexin 500 mg/5 ml when reconstituted with water for preparations. Diluent as above. Price 100 ml = G

Keflex® (Lilly)
Capsules, green/white, cephalexin 250 mg. Price 20 caps = E

Capsules, green, cephalexin 500 mg. Price 10 caps = E

Tablets, peach, cephalexin 250 mg. Price 20 tabs = E

For all abbreviations and symbols see inside cover

Tablets, peach, cephalexin 500 mg. Price 10 tabs = E

Suspension (= mixture), pink, cephalexin 125 mg/5 ml after reconstitution with water for preparations. Diluent syrup, life of diluted mixture 10 days. Price 100 ml = D

Suspension (= mixture), orange, cephalexin 250 mg/5 ml after reconstitution. Diluent as above. Price 100 ml = E

CEPHALORIDINE

Indications: see under Cefaclor

Cautions; Contra-indications; Side-effects: see under Cefaclor; also acute renal failure and positive Coombs' test may develop. Drug interactions: see Appendix 1

Dose: by intramuscular or intravenous injection 0.5-1 g every 8-12 hours; max. 6 g daily; CHILD, 20-40 mg/kg daily in divided doses, max. 4 g daily

Ceporin® (Glaxo)

Injection, powder for reconstitution, cephaloridine. Price 250-mg vial = B; 500-mg vial = C; 1-g vial = D

CEPHALOTHIN

Indications: see under Cefaclor

Cautions; Contra-indications; Side-effects: see under Cefaclor; also reduced doses in renal impairment, intramuscular injections painful. Drug interactions: see Appendix 1

Dose: by intravenous injection or infusion, 1 g every 4 hours; max. 12 g daily; CHILD, 12.5-25 mg/kg every 6 hours

Keflin® (Lilly)

Injection, powder for reconstitution, cephalothin (as sodium salt). Price 1-g vial = D; 4-g vial = G

CEPHAMANDOLE NAFATE

Indications: see under Cefaclor

Cautions; Contra-indications; Side-effects: see under Cefaclor; also reduced doses in renal impairment, false-positive results for glucose in urine with reducing substances

Dose: by intramuscular injection or intravenous injection or infusion, 0.5-2 g every 4-8 hours; CHILD, 50-100 mg/kg daily in divided doses

▼ **Kefadol®** (Lilly)

Injection, powder for reconstitution, cephamandole (as nafate) with sodium carbonate. Price 500-mg vial = D; 1-g vial = E; 2-g vial = G (Hosp. only)

CEPHAZOLIN

Indications: see under Cefaclor

Cautions; Contra-indications; Side-effects: see under Cefaclor; also reduced doses in renal impairment, false-positive results for glucose in urine with reducing substances

Dose: by intramuscular injection or intravenous injection or infusion, 0.5-1 g every 6-12 hours; CHILD, 125-250 mg every 8 hours

Kefzol® (Lilly)

Injection, powder for reconstitution (as sodium salt). Price 500-mg vial = E

CEPHRADINE

Indications: see under Cefaclor
Cautions; Contra-indications; Side-effects: see under Cefaclor; also reduced impairment, false-positive results in urine with reducing substances
Dose: by mouth, 250-500 mg CHILD, 25-50 mg/kg daily in divided doses
By intramuscular injection or infusion, 0.5-1 g every 50-100 mg/kg daily in 4 divided doses

Veloset® (Squibb)

Capsules, orange/blue, cephradine 20 caps = F

Capsules, blue, cephradine 10 caps = F

Syrup (= elixir), orange, cephradine when reconstituted with water. Diluent syrup, life of diluted mixture 100 ml = E

Syrup (= elixir), cephradine when reconstituted with water. Diluent as above. Price 100 ml = E

Injection, powder for reconstitution with sodium carbonate. Price 500-mg vial = C; 1-g vial = E

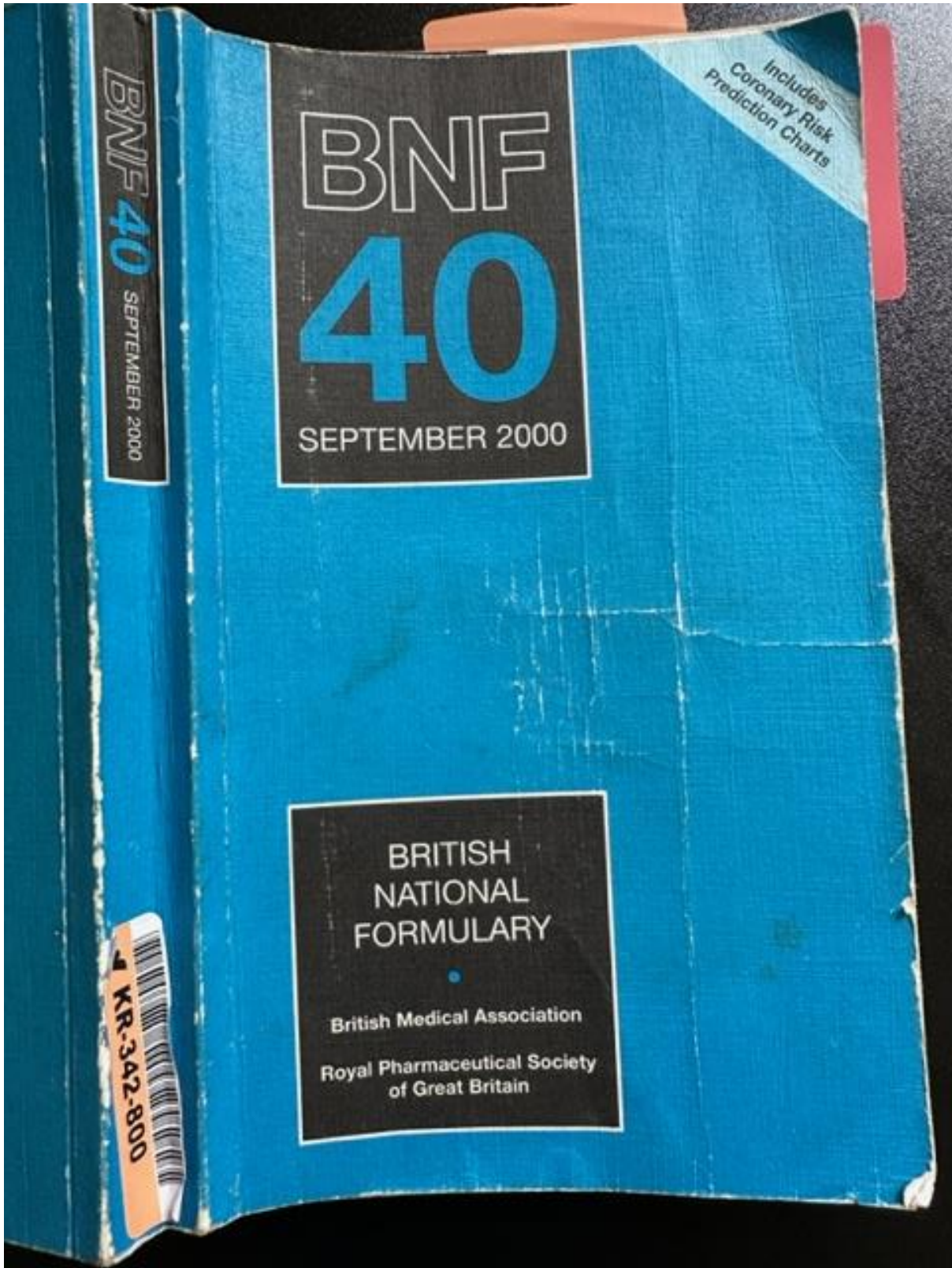
5.1.3 Tetracyclines

The tetracyclines are broad spectrum antibiotics whose usefulness has decreased because of increasing bacterial resistance. However, the agents of choice for the treatment of chlamydia (causing trachoma and lymphogranuloma venereum), mycoplasma (causing Q-fever), and brucella (causing brucellosis) are tetracyclines because of their activity against these organisms.

Microbiologically, there are differences between the various tetracyclines. The one with the broadest spectrum, is active against a wide range of organisms and is used for prophylaxis.

The tetracyclines are contraindicated in children and teeth (being bound to calcium and occasionally incorporated into the developing teeth) should not be given to children and pregnant women. With the exception of minocycline (Vibramycin®), tetracyclines should not be given to patients with renal failure because renal excretion of tetracyclines is decreased. Superinfection with *Candida albicans* may occur;

Relative prices: A = up to 10 times the price of the cheapest preparation



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SEPTEMBER 2000

BNF 40

SEPTEMBER 2000

Includes
Coronary Risk
Prediction Charts

BRITISH
NATIONAL
FORMULARY

British Medical Association
Royal Pharmaceutical Society
of Great Britain

KR-342-800

Distactor MR® (Distia) [PoM]
 Tablets, m/r, both blue, cefaclor (as monohydrate) 375 mg. Net price 14-tab pack = £6.93. Label: 9, 21, 25
 Dose: 375 mg every 12 hours with food, dose doubled for pneumonia
 Lower urinary-tract infections, 375 mg every 12 hours with food
 Note. Modified-release tablets containing cefaclor (as monohydrate) 375 mg available from Ranbaxy

CEFADROXIL

Indications: see under Cefaclor; see also notes above
Cautions: see under Cefaclor
Contra-indications: see under Cefaclor
Side-effects: see under Cefaclor

Dose: patients over 40 kg, 0.5–1 g twice daily; skin, soft tissue, and simple urinary-tract infections, 1 g daily; CHILD under 1 year, 25 mg/kg daily in divided doses; 1–6 years, 250 mg twice daily; over 6 years, 500 mg twice daily

Baxan® (Bristol-Myers Squibb) [PoM]
 Capsules, cefadroxil (as monohydrate) 500 mg, net price 20 = £5.64. Label: 9
 Suspension, cefadroxil (as monohydrate) for reconstitution with water, 125 mg/5 mL, net price 60 mL = £1.75; 250 mg/5 mL, 60 mL = £3.48; 500 mg/5 mL, 60 mL = £5.21. Label: 9

CEFALEXIN

(Cephalexin)

Indications: see under Cefaclor
Cautions: see under Cefaclor
Contra-indications: see under Cefaclor
Side-effects: see under Cefaclor
Dose: 250 mg every 6 hours or 500 mg every 8–12 hours increased to 1–1.5 g every 6–8 hours for severe infections; CHILD 25 mg/kg daily in divided doses, doubled for severe infections, max. 100 mg/kg daily; or under 1 year 125 mg every 12 hours, 1–5 years 125 mg every 8 hours, 6–12 years 250 mg every 8 hours
 Prophylaxis of recurrent urinary-tract infection, ADULT 125 mg at night

Cefalexin (Non-proprietary) [PoM]
 Capsules, cefalexin 250 mg, net price 28-cap pack = £3.37; 500 mg, 21-cap pack = £5.14. Label: 9
 Available from APS, Cox, Hillcross, Kent (Tenkorex®), Norton, Ranbaxy
 Tablets, cefalexin 250 mg, net price 20 = £2.52; 500 mg, 20 = £4.91. Label: 9
 Available from APS, Berk (Kiflone®), Cox, Hillcross, Kent (Tenkorex®), Norton
 Oral suspension, cefalexin for reconstitution with water, 125 mg/5 mL, net price 100 mL = £1.33; 250 mg/5 mL, 100 mL = £2.58. Label: 9
 Available from APS, Cox, Hillcross, Kent (Tenkorex®), Norton

Ceporex® (Galen) [PoM]
 Capsules, both caramel/grey, cefalexin 250 mg, net price 28-cap pack = £4.47; 500 mg, 28-cap pack = £8.72. Label: 9
 Tablets, all pink, f/c, cefalexin 250 mg, net price 28-tab pack = £4.47; 500 mg, 28-tab pack = £8.72; 1 g (scored), 14-tab pack = £8.72. Label: 9

Syrup, all orange, cefalexin for reconstitution with water, 125 mg/5 mL, net price 100 mL = £1.33; 250 mg/5 mL, 100 mL = £3.19; 500 mg/5 mL, 100 mL = £6.19. Label: 9

Keflex® (Lilly) [PoM]
 Capsules, cefalexin 250 mg (green/white), net price 28-cap pack = £3.57; 500 mg (pale green/dark green), 21-cap pack = £5.23. Label: 9
 Tablets, both peach, cefalexin 250 mg, net price 28-tab pack = £3.57; 500 mg (scored), 21-tab pack = £5.23. Label: 9
 Suspension, cefalexin for reconstitution with water, 125 mg/5 mL (pink), net price 100 mL = £1.27; 250 mg/5 mL (orange), 100 mL = £2.55. Label: 9

CEFAMANDOLE

(Cephmandole)

Indications: see under Cefaclor; surgical prophylaxis
Cautions: see under Cefaclor
Contra-indications: see under Cefaclor
Side-effects: see under Cefaclor
Dose: by deep intramuscular injection or by intravenous injection over 3–5 minutes or by intravenous infusion, 0.5–2 g every 4–8 hours; CHILD over 1 month, 50–100 mg/kg daily in 3–6 divided doses increased to 150 mg/kg daily for severe infections
 Surgical prophylaxis, by intramuscular or intravenous injection, 1–2 g 30–60 minutes before surgery followed by 1–2 g every 6 hours for 24–48 hours (up to 72 hours for implantation of prostheses)

Kefadol® (Distia) [PoM]
 Injection, powder for reconstitution, cefamandole (as nafate) with sodium carbonate. Net price 1-g vial = £3.91
 Electrolytes: Na⁺ 3.35 mmol/1-g vial

CEFAZOLIN

(Cephazolin)

Indications: see under Cefaclor; surgical prophylaxis
Cautions: see under Cefaclor
Contra-indications: see under Cefaclor
Side-effects: see under Cefaclor
Dose: by intramuscular injection or intravenous injection or infusion, 0.5–1 g every 6–12 hours; CHILD, 25–50 mg/kg daily (in divided doses), increased to 100 mg/kg daily in severe infections

Kefzol® (Lilly) [PoM]
 Injection, powder for reconstitution, cefazolin (as sodium salt). Net price 500-mg vial = £2.45; 1-g vial = £4.63
 Electrolytes: Na⁺ 2.1 mmol/g

CEFIXIME

Indications: see under Cefaclor (acute infections only)

Cautions: see under Cefaclor

Contra-indications: see under Cefaclor

Side-effects: see under Cefaclor

Dose: ADULT and CHILD over 10 years, 200–400 mg daily in 1–2 divided doses; CHILD over 6 months 8 mg/kg daily in 1–2 divided doses or 6 months–1 year 75 mg daily; 1–4 years 100 mg daily; 5–10 years 200 mg daily

Suprax® (Rhône-Poulenc Rorer) [PoM]
 Tablets, f/c, scored, cefixime 200 mg. Net price 14-tab pack = £12.03. Label: 9

Paediatric oral suspension, cefixime 100 mg/5 mL when reconstituted with water. Net price 100 mL (with double-ended spoon for measurement) = £7.90; 75 mL = £14.18. Label: 9

CEFOTAXIME

Indications: see under Cefaclor; surgical prophylaxis; Haemophilus epiglottitis a (section 5.1 table 1); see also notes

Cautions: see under Cefaclor

Contra-indications: see under Cefaclor

Side-effects: see under Cefaclor; mias following rapid injection rap

Dose: by intramuscular or intravenous infusion, 1 g increased in severe infections (e.g. 8 g daily in 4 divided doses; high 12 g daily in 3–4 divided doses) NEONATE 50 mg/kg daily in 2–3 divided doses increased to 150–200 mg/kg daily in severe infections; CHILD 100–150 mg/kg daily in 2–3 divided doses increased up to 200 mg/kg daily in severe infections

Claforan® (Hoechst Marion Roux) [PoM]
 Injection, powder for reconstitution (as sodium salt), net price 500-mg vial (with or without infusion set) = £4.85; 2-g vial (with or without infusion set) = £9.65
 Electrolytes: Na⁺ 2.09 mmol/g

CEFOXITIN

Indications: see under Cefaclor; more active against Gram-negative organisms

Cautions: see under Cefaclor

Contra-indications: see under Cefaclor

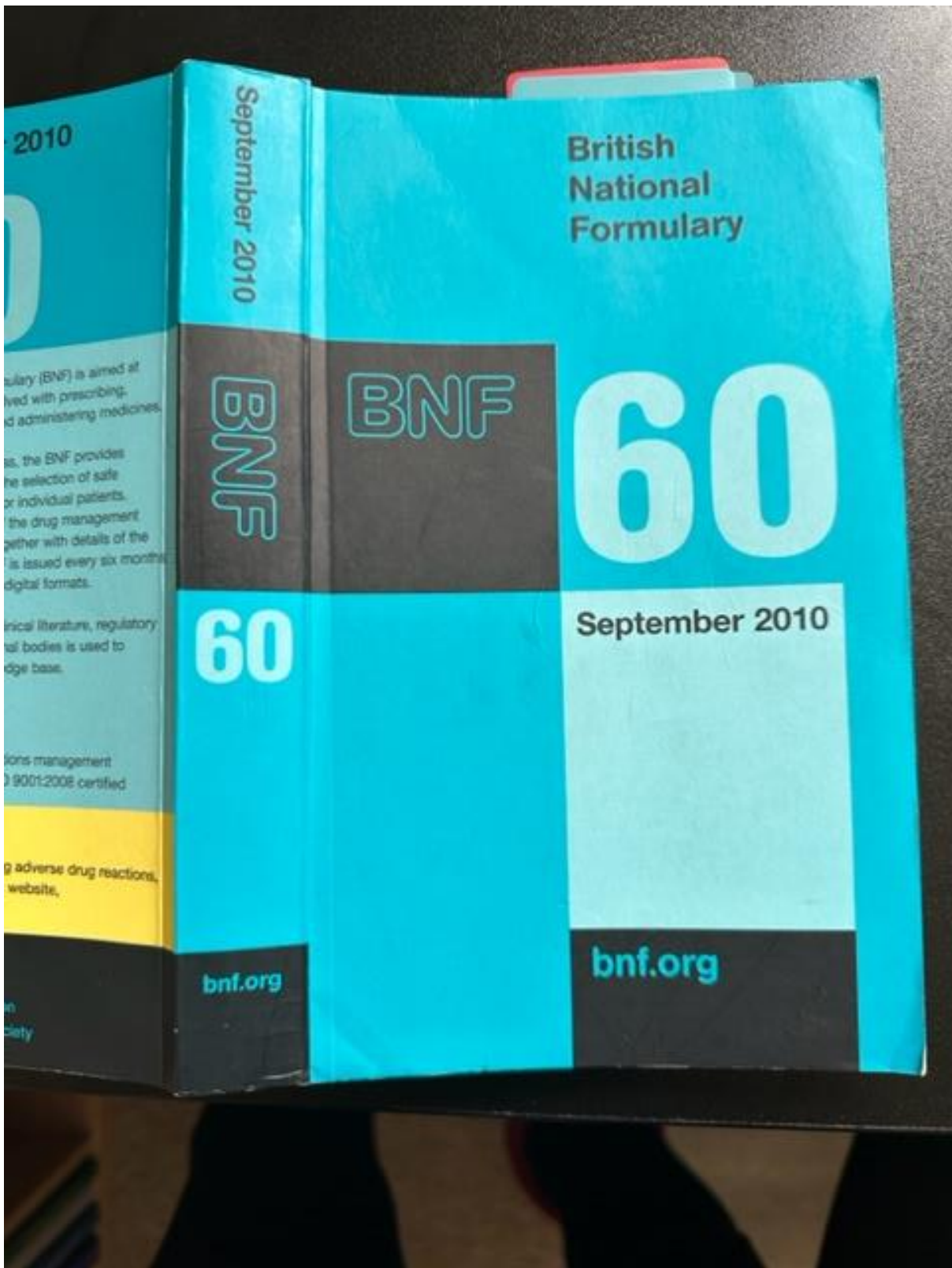
Side-effects: see under Cefaclor

Dose: by deep intramuscular injection or by intravenous injection or infusion, increased up to 12 g for infections requiring high doses; ADULT 20–40 mg/kg every 6–8 hours; CHILD 20–40 mg/kg every 8 hours; 40 mg/kg every 6–8 hours in severe infection; 200 mg/kg daily in divided doses in severe infection

Uncomplicated urinary-tract infection, 200 mg daily in divided doses

Uncomplicated gonorrhoea, 2 g as a single dose by mouth

Surgical prophylaxis, by intramuscular injection or by intravenous injection, 30–60 minutes before surgery every 6 hours for usual infections; 40 mg/kg 30–60 minutes before surgery repeated every 6 hours (second and third doses) NEONATES; intravenous injection, 200 mg/kg every 6 hours



Suspension, cefadroxil (as monohydrate) for reconstitution with water, 125 mg/5 mL, net price 60 mL = £1.54; 250 mg/5 mL, 60 mL = £3.05; 500 mg/5 mL, 60 mL = £4.57. Label: 9

CEFALEXIN
(Cephalexin)

Indications see under Cefaclor
Cautions see under Cefaclor; interactions: Appendix 1 (cephalosporins)

Contra-indications see under Cefaclor
Renal impairment max. 3 g daily if eGFR 40–50 mL/minute/1.73 m²; max. 1.5 g daily if eGFR 10–40 mL/minute/1.73 m²; max. 750 mg daily if eGFR less than 10 mL/minute/1.73 m²

Pregnancy see under Cefaclor
Breast-feeding see under Cefaclor

Side-effects see under Cefaclor
Dose
• 250 mg every 6 hours or 500 mg every 8–12 hours increased to 1–1.5 g every 6–8 hours for severe infections; CHILD 25 mg/kg daily in divided doses, doubled for severe infections, max. 100 mg/kg daily; or under 1 year 125 mg every 12 hours, 1–5 years 125 mg every 8 hours, 5–12 years 250 mg every 8 hours
• Prophylaxis of recurrent urinary-tract infection, ADULT 125 mg at night

Cefalexin (Non-proprietary) ^(POM)
Capsules, cefalexin 250 mg, net price 28-cap pack = £1.93; 500 mg, 21-cap pack = £2.69. Label: 9
Dental prescribing on NHS Cefalexin Capsules may be prescribed

Tablets, cefalexin 250 mg, net price 28-tab pack = £2.20; 500 mg, 21-tab pack = £2.79. Label: 9
Dental prescribing on NHS Cefalexin Tablets may be prescribed

Oral suspension, cefalexin for reconstitution with water, 125 mg/5 mL, net price 100 mL = £1.97; 250 mg/5 mL, 100 mL = £2.45. Label: 9
Dental prescribing on NHS Cefalexin Oral Suspension may be prescribed

Ceporex® (Co-Pharma) ^(POM)
Capsules, both caramel/grey, cefalexin 250 mg, net price 28-cap pack = £4.02; 500 mg, 28-cap pack = £7.85. Label: 9

Tablets, all pink, f/c, cefalexin 250 mg, net price 28-tab pack = £4.02; 500 mg, 28-tab pack = £7.85. Label: 9
Syrup, all orange, cefalexin for reconstitution with water, 125 mg/5 mL, net price 100 mL = £1.43; 250 mg/5 mL, 100 mL = £2.87; 500 mg/5 mL, 100 mL = £5.57. Label: 9

Keflex® (Flynn) ^(POM)
Capsules, cefalexin 250 mg (green/white), net price 28-cap pack = £1.46; 500 mg (pale green/dark green), 21-cap pack = £1.98. Label: 9

Tablets, both peach, cefalexin 250 mg, net price 28-tab pack = £1.60; 500 mg (scored), 21-tab pack = £2.08. Label: 9

Suspension, cefalexin for reconstitution with water, 125 mg/5 mL, net price 100 mL = 84p; 250 mg/5 mL, 100 mL = £1.40. Label: 9

CEFIXIME

Indications see under Cefaclor (acute infections only); gonorrhoea [unlicensed indication] (Table 1, section 5.1)

Cautions see under Cefaclor; interactions: Appendix 1 (cephalosporins)

Contra-indications see under Cefaclor
Renal impairment reduce dose if eGFR less than 20 mL/minute/1.73 m² (max. 200 mg once daily)

Pregnancy see under Cefaclor
Breast-feeding manufacturer advises avoid—no information available

Side-effects see under Cefaclor
Dose

- ADULT and CHILD over 10 years, 200–400 mg daily in 1–2 divided doses; CHILD over 6 months 8 mg/kg daily in 1–2 divided doses or 6 months–1 year 75 mg daily, 1–4 years 100 mg daily, 5–10 years 200 mg daily
- Gonorrhoea [unlicensed indication], 400 mg as a single dose

Suprax® (Sanofi-Aventis) ^(POM)
Tablets, f/c, scored, cefixime 200 mg. Net price 7-tab pack = £13.23. Label: 9

Paediatric oral suspension, cefixime 100 mg/5 mL when reconstituted with water, net price 50 mL (with double-ended spoon for measuring 3.75 mL or 5 mL since dilution not recommended) = £10.53, 100 mL = £18.91. Label: 9

CEFOTAXIME

Indications see under Cefaclor, gonorrhoea; surgical prophylaxis; Haemophilus epiglottitis and meningitis (Table 1, section 5.1); see also notes above

Cautions see under Cefaclor; interactions: Appendix 1 (cephalosporins)

Contra-indications see under Cefaclor
Renal impairment if eGFR less than 5 mL/minute/1.73 m², initial dose of 1 g then use half normal dose

Pregnancy see under Cefaclor
Breast-feeding see under Cefaclor

Side-effects see under Cefaclor; rarely arrhythmias following rapid injection reported

Dose
• By intramuscular or intravenous injection or by intravenous infusion, 1 g every 12 hours increased in severe infections (e.g. meningitis) to 8 g daily in 4 divided doses; higher doses (up to 12 g daily in 3–4 divided doses) may be required; NEONATE 50 mg/kg daily in 2–4 divided doses increased to 150–200 mg/kg daily in severe infections; CHILD 100–150 mg/kg daily in 2–4 divided doses increased up to 200 mg/kg daily in very severe infections

Uncomplicated gonorrhoea, 500 mg as a single dose
Important. If a patient with suspected bacterial meningitis without non-blanching rash cannot be transferred urgently to hospital, or if meningococcal disease is suspected, and the patient cannot be given benzylpenicillin (e.g. because of an allergy), a single dose of cefotaxime can be given (if available) before transfer to hospital. Suitable doses of cefotaxime by intravenous injection (or by intramuscular injection) are ADULT and CHILD over 12 years 1 g; CHILD under 12 years 50 mg/kg; chloramphenicol (section 5.1.7) may be used if there is a history of anaphylaxis to penicillins or cephalosporins

Cefotaxime (Non-proprietary) ^(POM)
Injection, powder for reconstitution, net price 500-mg sodium salt, 2-g vial = £8.57

CEFPODOXIME

Indications see under Dose
Cautions see under Cefaclor; 1 (cephalosporins)

Contra-indications see under Cefaclor
Renal impairment increase dose if eGFR 10–40 mL/minute/1.73 m²; increase dose interval to every 48 hours if eGFR less than 10 mL/minute/1.73 m²

Pregnancy see under Cefaclor
Breast-feeding see under Cefaclor

Side-effects see under Cefaclor
Dose

- Upper respiratory-tract infection and tonsillitis reserved for recurrent, chronic, or resistant 100 mg twice daily (200 mg CHILD 15 days–6 months 4 months–2 years 40 mg every 80 mg every 12 hours, over 9 years 100 mg)

- Lower respiratory-tract infection (pneumonia), 100–200 mg twice daily (200 mg CHILD 15 days–6 months 4 months–2 years 40 mg every 80 mg every 12 hours, over 9 years 100 mg)
- Skin and soft-tissue infection 100 mg twice daily (200 mg CHILD 15 days–6 months 4 months–2 years 40 mg every 80 mg every 12 hours, over 9 years 100 mg)

- Uncomplicated urinary-tract infection 200 mg twice daily (200 mg CHILD 15 days–6 months 4 months–2 years 40 mg every 80 mg every 12 hours, over 9 years 100 mg every 12 hours)

Orelox® (Sanofi-Aventis) ^(POM)
Tablets, f/c, cefpodoxime 100 mg, net price 10-tab pack = £9.78
Oral suspension, cefpodoxime for reconstitution with water, 100 mg/5 mL = £11.50. Label: 9
Excipients include aspartame (see 5.1.1)

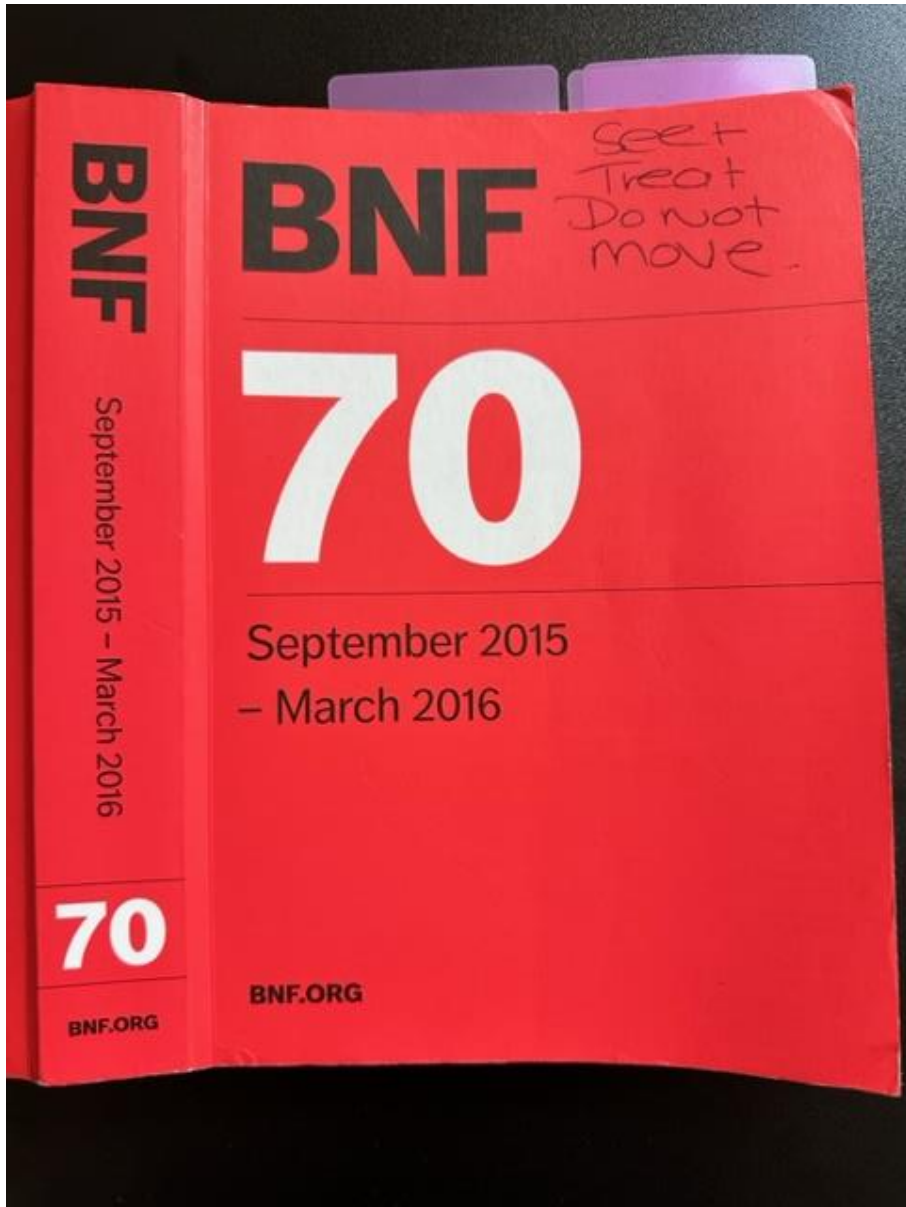
CEFRADINE
(Cephadrine)

Indications see under Cefaclor
Cautions see under Cefaclor; 1 (cephalosporins)

Contra-indications see under Cefaclor
Renal impairment use 100 mg every 12 hours if eGFR less than 5 mL/minute/1.73 m²

Pregnancy see under Cefaclor
Breast-feeding see under Cefaclor

Side-effects see under Cefaclor



456 Bacterial infection

- Child 5-11 years: 40 mg/kg daily in 3 divided doses, usual max. 1 g daily, alternatively 500 mg 3 times a day
- Child 12-17 years: 500 mg 3 times a day; maximum 4 g per day
- Adult: 500 mg 3 times a day; maximum 4 g per day

Pneumonia

- BY MOUTH USING MODIFIED-RELEASE TABLETS
- Child 12-17 years: 750 mg every 12 hours, dose to be taken with food
- Adult: 750 mg every 12 hours, dose to be taken with food

Lower urinary-tract infections

- BY MOUTH USING MODIFIED-RELEASE MEDICINES
- Child 12-17 years: 375 mg every 12 hours, dose to be taken with food
- Adult: 375 mg every 12 hours, dose to be taken with food

Asymptomatic carriage of *Haemophilus influenzae* or mild exacerbations in cystic fibrosis

- BY MOUTH USING IMMEDIATE-RELEASE MEDICINES
- Child 1-11 months: 125 mg every 8 hours
- Child 1-6 years: 250 mg 3 times a day
- Child 7-17 years: 500 mg 3 times a day

- SIDE-EFFECTS**
- SIDE-EFFECTS, FURTHER INFORMATION**
- Skin reactions Cefaclor is associated with protracted skin reactions, especially in children.
- PREGNANCY** Not known to be harmful.
- BREAST FEEDING** Present in milk in low concentration, but appropriate to use.
- RENAL IMPAIRMENT** No dose adjustment required. Manufacturer advises caution.

MEDICINAL FORMS
There can be variation in the licensing of different medicines containing the same drug.

Modified-release tablet
CAUTIONARY AND ADVISORY LABELS 9, 21, 25
Distaclor MR (Flynn Pharma Ltd)
Cefaclor (as Cefaclor monohydrate) 375 mg Distaclor MR 375mg tablets | 14 tablet [PoM] £9.10 DT price = £9.10

Capsule
CAUTIONARY AND ADVISORY LABELS 9
CEFACTOR (Non-proprietary)
Cefaclor (as Cefaclor monohydrate) 250 mg Cefaclor 250mg capsules | 21 capsule [PoM] no price available DT price = £6.80
Cefaclor (as Cefaclor monohydrate) 500 mg Cefaclor 500mg capsules | 50 capsule [PoM] £24.00
Distaclor (Flynn Pharma Ltd)
Cefaclor (as Cefaclor monohydrate) 500 mg Distaclor 500mg capsules | 21 capsule [PoM] £7.50 DT price = £7.50
Brands may include Keflid

Oral suspension
CAUTIONARY AND ADVISORY LABELS 9
CEFACTOR (Non-proprietary)
Cefaclor (as Cefaclor monohydrate) 25 mg per 1 ml Cefaclor 125mg/5ml oral suspension sugar free (sugar-free) | 100 ml [PoM] £5.16 DT price = £5.16
Cefaclor 125mg/5ml oral suspension | 100 ml [PoM] £6.75
Cefaclor (as Cefaclor monohydrate) 50 mg per 1 ml Cefaclor 250mg/5ml oral suspension sugar free (sugar-free) | 100 ml [PoM] £11.95 DT price = £10.32
Cefaclor 250mg/5ml oral suspension | 100 ml [PoM] no price available
Distaclor (Flynn Pharma Ltd)
Cefaclor (as Cefaclor monohydrate) 25 mg per 1 ml Distaclor 125mg/5ml oral suspension | 100 ml [PoM] £4.13
Cefaclor (as Cefaclor monohydrate) 50 mg per 1 ml Distaclor 250mg/5ml oral suspension | 100 ml [PoM] £9.26
Brands may include Keflid

Cefadroxil

INDICATIONS AND DOSE
Susceptible infections due to sensitive Gram-positive and Gram-negative bacteria

- BY MOUTH
- Child 6-17 years (body-weight up to 40 kg): 0.5 g twice daily
- Child 6-17 years (body-weight 40 kg and above): 0.5-1 g twice daily
- Adult: 0.5-1 g twice daily

Skin infections | Soft-tissue infections | Uncomplicated urinary-tract infections

- BY MOUTH
- Child 6-17 years (body-weight 40 kg and above): 1 g once daily
- Adult: 1 g daily

- PREGNANCY** Not known to be harmful.
- BREAST FEEDING** Present in milk in low concentration, but appropriate to use.
- RENAL IMPAIRMENT**
- In adults 1 g initially, then 500 mg every 12 hours if eGFR 26-50 mL/minute/1.73 m². 1 g initially, then 500 mg every 24 hours if eGFR 11-26 mL/minute/1.73 m². 1 g initially, then 500 mg every 36 hours if eGFR less than 11 mL/minute/1.73 m².
- In children Reduce dose if estimated glomerular filtration rate less than 50 mL/minute/1.73 m².

MEDICINAL FORMS
There can be variation in the licensing of different medicines containing the same drug.
Capsule
CAUTIONARY AND ADVISORY LABELS 9
CEFADROXIL (Non-proprietary)
Cefadroxil (as Cefadroxil monohydrate) 500 mg Cefadroxil 500mg capsules | 20 capsule [PoM] £22.36 DT price = £22.36 | 100 capsule [PoM] £111.90

Cefalexin

(Cephalexin)

INDICATIONS AND DOSE
Susceptible infections due to sensitive Gram-positive and Gram-negative bacteria

- BY MOUTH
- Child 1-11 months: 12.5 mg/kg twice daily, alternatively 125 mg twice daily
- Child 1-4 years: 12.5 mg/kg twice daily, alternatively 125 mg 3 times a day
- Child 5-11 years: 12.5 mg/kg twice daily, alternatively 250 mg 3 times a day
- Child 12-17 years: 500 mg 2-3 times a day
- Adult: 250 mg every 6 hours, alternatively 500 mg every 8-12 hours; increased to 1-1.5 g every 6-8 hours, increased dose to be used for severe infections

Serious susceptible infections due to sensitive Gram-positive and Gram-negative bacteria

- BY MOUTH
- Child 1 month-11 years: 25 mg/kg 2-4 times a day (max. per dose 1 g 4 times a day)
- Child 12-17 years: 1-1.5 g 3-4 times a day

Prophylaxis of recurrent urinary-tract infection

- BY MOUTH
- Child: 12.5 mg/kg once daily (max. per dose 125 mg), dose to be taken at night
- Adult: 125 mg once daily, dose to be taken at night

PREGNANCY Not known to be harmful
BREAST FEEDING Present in milk in low concentration, but appropriate to use.

RENAL IMPAIRMENT
In adults Max. 3 g daily if eGFR 40-50 mL/minute/1.73 m². Max. 1.5 g daily if eGFR 10-40 mL/minute/1.73 m². Max. 750 mg daily if eGFR less than 10 mL/minute/1.73 m².

In children Reduce dose in moderate renal impairment

PATIENT AND CARER ADVICE
Medicines for Children leaflet: Cefalexin | www.medicinesforchildren.org

PROFESSION SPECIFIC INFORMATION
Dental practitioners' formulary Cefalexin Tablets may be prescribed. Cefalexin Tablets may be prescribed. Oral Suspension may be prescribed

MEDICINAL FORMS
There can be variation in the licensing of different medicines containing the same drug.

Tablet
CAUTIONARY AND ADVISORY LABELS 9
CEFALEXIN (Non-proprietary)
Cefalexin 250 mg Ceporex 250mg tablets | 100 tablet [PoM] £4.9
Cefalexin 500 mg Ceporex 500mg tablets | 100 tablet [PoM] £2.38

Ceporex (Co-Pharma Ltd)
Cefalexin 250 mg Ceporex 250mg tablets | 100 tablet [PoM] £13.74
Cefalexin 500 mg Ceporex 500mg tablets | 100 tablet [PoM] £26.90

Keflex (Flynn Pharma Ltd)
Cefalexin 250 mg Keflex 250mg tablets | 100 tablet [PoM] £2.38
Cefalexin 500 mg Keflex 500mg tablets | 100 tablet [PoM] £2.38

Capsule
CAUTIONARY AND ADVISORY LABELS 9
CEFALEXIN (Non-proprietary)
Cefalexin 250 mg Cefalexin 250mg capsules | 100 capsule [PoM] £4.01 DT price = £1.59 | 100 capsule [PoM] £4.01 DT price = £1.59 | 100 capsule [PoM] £4.01 DT price = £1.59 | 100 capsule [PoM] £4.01 DT price = £1.59

Cefalexin 500 mg Cefalexin 500mg capsules | 100 capsule [PoM] £5.85 DT price = £1.71 | 100 capsule [PoM] £5.85 DT price = £1.71 | 100 capsule [PoM] £5.85 DT price = £1.71 | 100 capsule [PoM] £5.85 DT price = £1.71

Ceporex (Co-Pharma Ltd)
Cefalexin 250 mg Ceporex 250mg capsules | 100 capsule [PoM] £1.59 DT price = £1.59 | 100 capsule [PoM] £1.59 DT price = £1.59 | 100 capsule [PoM] £1.59 DT price = £1.59

Keflex (Flynn Pharma Ltd)
Cefalexin 250 mg Keflex 250mg capsules | 100 capsule [PoM] £1.59 DT price = £1.59 | 100 capsule [PoM] £1.59 DT price = £1.59 | 100 capsule [PoM] £1.59 DT price = £1.59

Oral suspension
CAUTIONARY AND ADVISORY LABELS 9
CEFALEXIN (Non-proprietary)
Cefalexin 25 mg per 1 ml Cefalexin 125mg/5ml oral suspension sugar free (sugar-free) | 100 ml [PoM] £1.40 DT price = £1.40 | 100 ml [PoM] £1.40 DT price = £1.40 | 100 ml [PoM] £1.40 DT price = £1.40

Cefalexin 50 mg per 1 ml Cefalexin 250mg/5ml oral suspension sugar free (sugar-free) | 100 ml [PoM] £1.81 DT price = £1.81 | 100 ml [PoM] £1.81 DT price = £1.81 | 100 ml [PoM] £1.81 DT price = £1.81

Cefalexin 100 mg per 1 ml Cefalexin 100mg/5ml oral suspension sugar free (sugar-free) | 100 ml [PoM] no price available DT price = £1.81 | 100 ml [PoM] no price available DT price = £1.81 | 100 ml [PoM] no price available DT price = £1.81

Ceporex (Co-Pharma Ltd)
Cefalexin 25 mg per 1 ml Ceporex 125mg/5ml oral suspension sugar free (sugar-free) | 100 ml [PoM] £1.43 DT price = £1.43 | 100 ml [PoM] £1.43 DT price = £1.43 | 100 ml [PoM] £1.43 DT price = £1.43

Cefalexin 50 mg per 1 ml Ceporex 250mg/5ml oral suspension sugar free (sugar-free) | 100 ml [PoM] £2.87 DT price = £2.87 | 100 ml [PoM] £2.87 DT price = £2.87 | 100 ml [PoM] £2.87 DT price = £2.87

Cefalexin 100 mg per 1 ml Ceporex 100mg/5ml oral suspension sugar free (sugar-free) | 100 ml [PoM] £5.57 DT price = £5.57 | 100 ml [PoM] £5.57 DT price = £5.57 | 100 ml [PoM] £5.57 DT price = £5.57

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574 Bacterial infection

- **SIDE-EFFECTS**
 - ▶ **Common or very common** Abdominal pain · diarrhoea · dizziness · eosinophilia · headache · leucopenia · nausea · neutropenia · pseudomembranous enterocolitis · skin reactions · thrombocytopenia · vomiting · vulvovaginal candidiasis
 - ▶ **Uncommon** Anaphylactic reaction · angioedema
 - ▶ **Rare or very rare** Agranulocytosis · haemolytic anaemia · nephritis tubulointerstitial (reversible) · severe cutaneous adverse reactions (SCARs)
- **ALLERGY AND CROSS-SENSITIVITY** **ExGr** Contra-indicated in patients with cephalosporin hypersensitivity.
 - ▶ Cross-sensitivity with other beta-lactam antibacterials. Cross-reactivity between penicillins and first and early second-generation cephalosporins has been reported to occur in up to 10%, and for third-generation cephalosporins in 2–3%, of penicillin-allergic patients. **ExGr** Patients with a history of **immediate hypersensitivity** to penicillin and other beta-lactams should not receive a cephalosporin. Cephalosporins should be used with caution in patients with sensitivity to penicillin and other beta-lactams.
- **EFFECT ON LABORATORY TESTS** False positive urinary glucose (if tested for reducing substances). False positive Coombs' test.

ANTIBACTERIALS > CEPHALOSPORINS, FIRST-GENERATION

Cefadroxil

● INDICATIONS AND DOSE

Susceptible infections due to sensitive Gram-positive and Gram-negative bacteria

▶ BY MOUTH

- ▶ Child 6–17 years (body-weight up to 40 kg): 0.5 g twice daily
- ▶ Child 6–17 years (body-weight 40 kg and above): 0.5–1 g twice daily
- ▶ Adult: 0.5–1 g twice daily

Skin infections | Soft-tissue infections | Uncomplicated urinary-tract infections

▶ BY MOUTH

- ▶ Child 6–17 years (body-weight 40 kg and above): 1 g once daily
- ▶ Adult: 1 g daily

- **INTERACTIONS** → Appendix 1: cephalosporins
- **SIDE-EFFECTS**
 - ▶ **Common or very common** Dyspepsia · glossitis
 - ▶ **Uncommon** Fungal infection
 - ▶ **Rare or very rare** Arthralgia · drug fever · fatigue · hepatic disorders · insomnia · nervousness · serum sickness-like reaction
- **PREGNANCY** Not known to be harmful.
- **BREAST FEEDING** Present in milk in low concentration, but appropriate to use.
- **RENAL IMPAIRMENT**
 - ▶ **Dose adjustments** ▶ In adults 1 g initially, then 500 mg every 12 hours if eGFR 26–50 mL/minute/1.73 m², 1 g initially, then 500 mg every 24 hours if eGFR 11–26 mL/minute/1.73 m², 1 g initially, then 500 mg every 36 hours if eGFR less than 11 mL/minute/1.73 m².
 - ▶ In children Reduce dose if estimated glomerular filtration rate less than 50 mL/minute/1.73 m².

- **MEDICINAL FORMS** There can be variation in the bioequivalence of different medicines containing the same drug.

Capsule

CAUTIONARY AND ADVISORY LABELS 9

- ▶ Cefadroxil (Non-proprietary)
- ▶ Cefadroxil (as Cefadroxil monohydrate) 500 mg Cefadroxil capsules | 20 capsule. **PoM** £27.38 DT = £22.38

Cefalexin (Cephalexin)

● INDICATIONS AND DOSE

Susceptible infections due to sensitive Gram-positive and Gram-negative bacteria

▶ BY MOUTH

- ▶ Child 1–11 months: 12.5 mg/kg twice daily, alternatively 125 mg twice daily
- ▶ Child 1–4 years: 12.5 mg/kg twice daily, alternatively 125 mg 3 times a day
- ▶ Child 5–11 years: 12.5 mg/kg twice daily, alternatively 250 mg 3 times a day
- ▶ Child 12–17 years: 500 mg 2–3 times a day
- ▶ Adult: 250 mg every 6 hours, alternatively 500 mg every 8–12 hours; increased to 1–1.5 g every 6–8 hours, increased dose to be used for severe infections

Serious susceptible infections due to sensitive Gram-positive and Gram-negative bacteria

▶ BY MOUTH

- ▶ Child 1 month–11 years: 25 mg/kg 2–4 times a day (max. per dose 1 g 4 times a day)
- ▶ Child 12–17 years: 1–1.5 g 3–4 times a day

Hospital-acquired pneumonia | Acute diverticulitis [in combination with metronidazole]

▶ BY MOUTH

- ▶ Adult: 500 mg 2–3 times a day; increased if necessary to 1–1.5 g 3–4 times a day for 5 days then review, use increased dose in severe infection

Prophylaxis of recurrent urinary-tract infection

▶ BY MOUTH

- ▶ Child 3 months–15 years: 12.5 mg/kg once daily (max. per dose 125 mg), dose to be taken at night
- ▶ Child 16–17 years: 125 mg once daily, dose to be taken at night, alternatively 500 mg for 1 dose, following exposure to a trigger
- ▶ Adult: 125 mg once daily, dose to be taken at night, alternatively 500 mg for 1 dose, following exposure to a trigger

Acute pyelonephritis | Urinary-tract infection (catheter-associated)

▶ BY MOUTH

- ▶ Child 3–11 months: 12.5 mg/kg twice daily for 7 to 10 days, alternatively 125 mg twice daily; increased if necessary to 25 mg/kg 2–4 times a day (max. per dose 1 g 4 times a day), increased dose used in severe infections
- ▶ Child 1–4 years: 12.5 mg/kg twice daily, alternatively 125 mg 3 times a day for 7 to 10 days; increased if necessary to 25 mg/kg 2–4 times a day (max. per dose 1 g 4 times a day), increased dose used in severe infections
- ▶ Child 5–11 years: 12.5 mg/kg twice daily, alternatively 250 mg 3 times a day for 7 to 10 days; increased if necessary to 25 mg/kg 2–4 times a day (max. per dose 1 g 4 times a day), increased dose used in severe infections
- ▶ Child 12–17 years: 500 mg 2–3 times a day for 7 to 10 days; increased to 1–1.5 g 3–4 times a day, increased dose used in severe infections

- ▶ Adult: 500 mg 2–3 times a day for 7 to 10 days; increased if necessary to 1–1.5 g 3–4 times a day, increased dose used in severe infection

Lower urinary-tract infection in premenstrual women

▶ BY MOUTH

- ▶ Adult: 500 mg twice daily for 7 days

Lower urinary-tract infection

▶ BY MOUTH

- ▶ Child 3–11 months: 12.5 mg/kg twice daily for 3 days
- ▶ Child 1–4 years: 12.5 mg/kg twice daily for 3 days
- ▶ Child 5–11 years: 12.5 mg/kg twice daily for 3 days
- ▶ Child 12–15 years: 500 mg twice daily for 3 days

UNLICENSED USE **ExGr** Cefalexin for recurrent urinary-tract infection, for this indication.

- **INTERACTIONS** → Appendix 1: cephalosporins
- **SIDE-EFFECTS** Agitation · arthralgia · fungal infection · gastrointestinal pruritus · hallucination · hepatitis hypersensitivity · jaundice cholestatic · vaginal discharge

● PREGNANCY Not known to be harmful.

● BREAST FEEDING Present in milk in low concentration, but appropriate to use.

● RENAL IMPAIRMENT

- ▶ **Dose adjustments** ▶ In adults Max 40–50 mL/minute/1.73 m². Max 10–40 mL/minute/1.73 m². Max 10–40 mL/minute/1.73 m².
- ▶ In children Reduce dose in moderate renal impairment.

● PRESCRIBING AND DISPENSING of antibacterial therapy, see Guidelines for the use of antibacterial therapy, system infections, antibacterial infections p. 649.

● PATIENT AND CARER ADVICE Medicines for Children leaflet: Cefalexin. www.medicinesforchildren.org.uk/bacterial-infections/

● PROFESSIONAL SPECIFIC INFORMATION Dental practitioners' formulary

Cefalexin Tablets may be prescribed. Cefalexin Oral Suspension may be prescribed.

● MEDICINAL FORMS There can be variation in the bioequivalence of different medicines containing the same drug.

Oral suspension

CAUTIONARY AND ADVISORY LABELS 9

- ▶ Cefalexin (Non-proprietary)
- ▶ Cefalexin 25 mg per 1 ml Cefalexin sugar free sugar-free 100 ml **Ex** E3.28
- ▶ Cefalexin 125mg/5ml oral suspension
- ▶ Cefalexin 50 mg per 1 ml Cefalexin sugar free sugar-free 100 ml **Ex** E3.34

Tablet

CAUTIONARY AND ADVISORY LABELS 9

- ▶ Cefalexin (Non-proprietary)
- ▶ Cefalexin 250 mg Cefalexin 250 mg tablets | 20 tablet. **PoM** £2.77
- ▶ Cefalexin 500 mg Cefalexin 500 mg tablets | 20 tablet. **PoM** £2.70