

SUPPLEMENTARY FILE 3

CLARITHROMYCIN

Clarithromycin dosage and its calculations for 0 to 1 month neonate

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day & Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Pneumonia, sinusitis, mild to moderate skin and soft tissue infection, prevention of pertussis	0–1 month (3.5 to 4.3kg)	Drops	26.25–32.25 mg	125 mg/5 ml	b.i.d	7 days	52.5–64.50 mg 52.5–64.50 mg × 7 = 367.5–451.5 mg	14.7–8.06 ml	10.3–6.94 ml extra in minimum available pack size of drops i.e. 25 ml.	Inappropriate
		Suspension	26.25–32.25 mg	125 mg/5 ml	b.i.d	7 days	52.5–64.50 mg 52.5–64.50 mg × 7 = 367.5–451.5 mg	14.7–8.06 ml	15.3–11.94 ml extra in minimum available pack size of suspension i.e. 30 ml.	Inappropriate
		IV Infusion	26.2–32.5 mg	500 mg	b.i.d	2-5 days	52.5–64.50 mg 52.5–64.50 mg × (2-5) = 105–322.5 mg	4-10 vials	473.75–467.75 mg extra per dose. 947.5–935.5 mg extra per day. 1871–4737.5 mg extra for whole duration.	Inappropriate

b.i.d: Two times a day, **IV:** Intravenous

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day & Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Throat infections	0–1 month (3.5 to 4.3kg)	Drops	26.25–32.25 mg	125 mg/5 ml	b.i.d	10 days	52.5–4.50 mg 52.5–4.50 mg × 10 = 525–645 mg	21–25.8 ml	4 ml extra in minimum available pack size of 25 ml for lowest quantity required. for higher quantity required, 0.8 ml less in minimum available pack size of drops i.e. 25 ml and 4.2 ml extra in maximum available pack size of drops i.e. 30 ml.	Inappropriate
		Suspension	26.25–32.25 mg	125 mg/5 ml	b.i.d	10 days	52.5–64.50 mg 52.5–64.50 mg × 10 = 525–645 mg	21–25.8 ml	9–4.2 ml extra in minimum available pack size of suspension i.e. 30 ml.	Inappropriate
Otitis media	0–1 month (3.5 to 4.3kg)	Drops	26.25–32.25 mg	125 mg/5 ml	b.i.d	5 days	52.5–64.50 mg 52.5–64.50 mg × 5 = 262.5–322.5 mg	10.5–12.9 ml	14.5–12.1 ml extra in minimum available pack size of drops i.e. 25 ml.	Inappropriate
		Suspension	26.25–32.25 mg	125 mg/5 ml	b.i.d	5 days	52.5–64.50 mg, 52.5–64.50 mg × 5 = 262.5–322.5 mg	10.5–12.9 ml	19.5–17.1 ml extra in minimum available pack size of suspension i.e. 30 ml.	Inappropriate

b.i.d: Two times a day

Clarithromycin dosage and its calculations for 1 month to 1 year children

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day & Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Pneumonia, sinusitis, mild to moderate skin and soft tissue infection, prevention of pertussis	1 to 6 months (4.3 to 7.7kg)	Suspension	32.25–57.75 mg	125 mg /5 ml	b.i.d	7 days	64.50–115.5 mg 64.50–115.5 mg × 7 = 451.5–808.5 mg	18.06–32.34 ml	11.94 ml extra in minimum available pack i.e. 30 ml for lowest quantity required. For higher quantity required 2.34 ml less in minimum available pack size i.e. 30 ml. 17.66 ml extra in maximum available pack size of suspension i.e. 50 ml.	Inappropriate
		Suspension	32.25–57.75 mg	250 mg /5 ml	b.i.d	7 days	64.50–115.5 mg 64.50–115.5 mg × 7 = 451.5–808.5 mg	8.31–16.17 ml	61.69–53.83 ml extra in available pack size of suspension i.e. 70 ml.	Inappropriate
		IV infusion	7.5 mg/kg (32.25–57.75 mg)	500 mg	b.i.d	2–5 days	64.50–115.5 mg 64.50–115.5 mg × (2-5) = 129–577.5 mg	4–10 vials	467.75–442.25 mg extra per dose. 935.5–884.5 mg extra per day. 1769–4677.5 mg extra for whole duration.	Inappropriate

b.i.d: Two times a day, **IV:** Intravenous

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day &Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Otitis media	1 to 6 months (4.3 to 7.7kg)	Suspension	32.25–57.75 mg	125 mg /5 ml	b.i.d	5 days	64.50–115.5 mg 64.50–115.5 mg × 5 = 322.5–577.5 mg	12.9–23.1 ml	17.1–6.9 ml extra in minimum available pack size i.e. 30 ml.	Inappropriate
		Suspension	32.25–57.75 mg	250 mg /5 ml	b.i.d	5 days	64.50–115.5 mg 64.50–115.5 mg × 5 = 322.5–577.5 mg	6.45–11.55 ml	63.55–58.45 ml extra in available pack size i.e. 70 ml.	Inappropriate
Throat infections		Suspension	32.25–57.75 mg	125 mg /5 ml	b.i.d	10 days	64.50–115.5 mg 64.50–115.5 mg × 10 = 645–1155 mg	25.8–46.2 ml	4.2 ml is extra in minimum available pack of 30 ml for lowest quantity required. For highest quantity required, 16.2 ml less in minimum available pack size i.e. 30 ml. 3.8 ml extra in available pack size of suspension i.e. 50 ml.	Inappropriate
		Suspension	32.25–57.75 mg	250 mg /5 ml	b.i.d	10 days	64.50–115.5 mg 64.50–115.5 mg × 10 = 645–1155 mg	12.9–23.1 ml	57.1–46.9 ml extra in available pack size of suspension i.e. 70 ml.	Inappropriate

b.i.d: Two times a day

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day &Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Pneumonia, sinusitis, mild to moderate skin and soft tissue infection, prevention of pertussis	6 to 12 months (7.7 to 10 kg)	Suspension	62.5 mg	125 mg /5 ml	b.i.d	7 days	125 mg 125 mg × 7 = 875 mg	35 ml	5 ml less in minimum available pack size i.e. 30 ml. 15 ml extra in available pack size of suspension i.e. 50 ml.	Inappropriate
		Suspension	62.5 mg	250 mg /5 ml	b.i.d	7 days	125 mg 125 mg × 7 = 875 mg	17.5 ml	52.5 ml extra in available pack size of suspension i.e. 70 ml.	Inappropriate
		IV Infusion	7.5 mg/kg (57.75–75 mg)	500 mg	b.i.d	2-5 days	115.5–125 mg 115.5–125 mg × (2–5) = 231–625 mg	4-10 vials	442.25–425 mg extra per dose. 884.5–850 mg extra per day. 1700–4422.5 mg extra for whole duration.	Inappropriate
Otitis media		Suspension	62.5 mg	125 mg /5 ml	b.i.d	5 days	125 mg 125 mg × 5 = 675 mg	27 ml	3 ml extra in minimum available pack size i.e. 30 ml.	Inappropriate
		Suspension	62.5 mg	250 mg /5 ml	b.i.d	5 days	125 mg 125 mg × 5 = 675 mg	13.5 ml	56.5 ml extra in available pack size of suspension i.e. 70 ml.	Inappropriate

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day &Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Throat infections	6 to 12 months (7.7 to 10 kg)	Suspension	62.5 mg	125 mg /5 ml	b.i.d	10 days	125 mg 125 mg × 10 = 1250 mg	50 ml	Quantity is exactly equivalent to pack size i.e. 50 ml.	Appropriate
		Suspension	62.5 mg	250 mg /5 ml	b.i.d	10 days	125 mg 125 mg × 10 = 1250 mg	25 ml	45 ml extra in available pack size of suspension i.e. 70 ml.	Inappropriate
Lyme disease, Helicobacter pylori eradication		Suspension	7.5 mg/kg (31.5–75 mg)	125 mg /5 ml	b.i.d	14–21 days	63–150 mg 63–150 mg × (14–21) = 882–3150 mg	35.28–126 ml	34.72 ml lesser minimum available pack 30 ml for lowest quantity required. For highest quantity required, 4 ml extra in 1x70 ml and 1x60 ml pack sizes. 6 ml less in1x70 ml and 1x50 ml pack sizes.	Inappropriate
		Suspension	7.5 mg/kg (31.5–75 mg)	250 mg /5 ml	b.i.d	14–21 days	63–150 mg 63–150 mg × (14-21) = 882–3150 mg	17.64–63 ml	52.36 ml extra in available pack of 70 ml for lowest quantity required. for highest required quantity, 7 ml extra in available pack size of 70 ml.	Inappropriate

b.i.d: Two times a day, **IV:** Intravenous

Clarithromycin dosage and its calculations for 1 to 2 years children

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day & Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Pneumonia, sinusitis, mild to moderate skin and soft tissue infection, prevention of pertussis	1 to 2 years (8 to 11 kg)	Suspension	62.5 mg	125 mg /5 ml	b.i.d	7 days	125 mg 125 mg × 7 = 875 mg	35 ml	5 ml less in minimum available pack size i.e. 30 ml. 15 ml extra in available pack size of suspension i.e. 50 ml.	Inappropriate
		Suspension	62.5 mg	250 mg /5 ml	b.i.d	7 days	125 mg 125 mg × 7 = 875 mg	17.5 ml	52.5 ml extra in available pack size of suspension i.e. 70 ml.	Inappropriate
		IV Infusion	7.5 mg/kg (60–82.5 mg)	500 mg	b.i.d	2–5 days	120–165 mg 120–165 mg × (2–5) = 240–825 mg	4-10 vials	440–417.5 mg extra per dose. 880–835 mg extra per day. 1670–4400 mg extra for whole duration.	Inappropriate

b.i.d: Two times a day

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day &Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Otitis media	1 to 2 years (8 to 11 kg)	Suspension	62.5 mg	125 mg /5 ml	b.i.d	5 days	125 mg 125 mg × 5 = 675 mg	27 ml	3 ml extra in minimum available pack size i.e. 30 ml.	Inappropriate
		Suspension	62.5 mg	250 mg /5 ml	b.i.d	5 days	125 mg 125 mg × 5 = 675 mg	13.5 ml	56.5 ml extra in available pack size of suspension i.e. 70 ml.	Inappropriate
Throat infections		Suspension	62.5 mg	125 mg /5 ml	b.i.d	10 days	125 mg 125 mg × 10 = 1250 mg	50 ml	Quantity is exactly equivalent to pack size i.e. 50 ml.	Appropriate
		Suspension	62.5 mg	250 mg /5 ml	b.i.d	10 days	125 mg 125 mg × 10 = 1250 mg	25 ml	45 ml extra in available pack size of suspension i.e. 70 ml	Inappropriate

b.i.d: Two times a day

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day & Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Lyme disease, <i>Helicobacter pylori</i> eradication	1 to 2 years (8 to 11 kg)	Suspension	7.5 mg/kg (60–82.5 mg)	125 mg /5 ml	b.i.d	14–21 days	120–165 mg 120–165 mg × (14–21) = 1680–3465 mg	67.2–138.6 ml	2.8 ml extra in maximum available pack sizes of suspension i.e. 70 ml for lowest quantity required. For highest quantity required, 1.4 ml extra in 2 maximum available pack sizes of suspension i.e. 70 ml.	Inappropriate
		Suspension	7.5 mg/kg (60–82.5 mg)	250 mg /5 ml	b.i.d	14–21 days	120–165 mg 120–165 mg × (14–21) = 1680–3465 mg	33.6–69.3 ml	36.4 ml extra in available pack sizes of suspension i.e. 70 ml for lowest quantity required. for highest quantity required, 0.7 ml extra in available pack sizes of suspension i.e. 70 ml.	Inappropriate

b.i.d: Two times a day

Clarithromycin dosage and its calculations for 2 to 4 years children

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day &Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Pneumonia, sinusitis, mild to moderate skin and soft tissue infection, prevention of pertussis	2 to 4 years (12 to 19 kg)	Suspension	125 mg /5 ml	125 mg /5 ml	b.i.d	7 days	250 mg 250 mg × 7 = 1750 mg	70 ml	Quantity is exactly equivalent to available pack size i.e. 70 ml	Appropriate
		Suspension	125 mg /5 ml	250 mg /5 ml	b.i.d	7 days	250 mg 250 mg × 7 = 1750 mg	35 ml	35 ml extra in available pack size of suspension i.e. 70 ml	Inappropriate
		IV infusion	7.5 mg/kg (90–142.5 mg)	500 mg	b.i.d	2-5 days	180–285 mg 180–285 mg × (2–5) = 360–1425 mg	4–10 vials	410–357.5 mg extra per dose. 820–715 mg extra per day. 1430–4100 mg extra for whole duration.	Inappropriate
Otitis media		Suspension	125 mg	125 mg /5 ml	b.i.d	5 days	250 mg 250 mg × 5 = 1250 mg	50 ml	Quantity is exactly equivalent to available pack size i.e. 50 ml	Appropriate
		Suspension	125 mg	250 mg /5 ml	b.i.d	5 days	250 mg 250 mg × 5 = 1250 mg	25 ml	45 ml extra in pack size of suspension i.e. 70 ml	Inappropriate

b.i.d: Two times a day, **IV:** Intravenous

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day & Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Throat infections	2 to 4 years (12 to 19 kg)	Suspension	125 mg	125 mg /5 ml	b.i.d	10 days	250 mg 250 mg × 10 = 2500 mg	100 ml	Quantity is exactly equivalent to available pack size i.e. 2 x 50 ml	Appropriate
									30 ml less in maximum available pack size of suspension i.e. 70 ml	Inappropriate
		Suspension	125 mg	250 mg /5 ml	b.i.d	10 days	250 mg 250 mg × 10 = 2500 mg	50 ml	20 ml extra in available pack size of suspension i.e. 70 ml	Inappropriate
Lyme disease, Helicobacter pylori eradication		Suspension	7.5 mg/kg (90–142.5 mg)	125 mg /5 ml	b.i.d	14–21 days	180–285 mg 180–285 mg × (14–21) = 2520–5985 mg	100.8-239.4 ml	19.2 ml extra in suitable available packs of 1x50 ml and 1 x 70 ml for lowest quantity required. For highest quantity required, 0.6 ml extra in suitable available packs of 3 x 70 ml and 1 x 30 ml.	Inappropriate

b.i.d: Two times a day, **IV:** Intravenous

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day & Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Lyme disease, Helicobacter pylori eradication	2 to 4 years (12 to 19 kg)	Suspension	7.5 mg/kg (90-142.5 mg)	250 mg /5 ml	b.i.d	14-21 days	180–285 mg 180–285 mg × (14–21) = 2520–5985 mg	50.4– 119.7 ml	19.6 ml extra in available packs size i.e., 70 ml for lowest quantity required. for highest quantity required, 20.3 ml extra in available pack size i.e. 2 x 70 ml	Inappropriate

b.i.d: Two times a day

Clarithromycin dosage and its calculations for 4 to 8 years children

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day &Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Pneumonia, sinusitis, mild to moderate skin and soft tissue infection, prevention of pertussis	4 to 8 years (20 to 29 kg)	Suspension	187.5 mg	125 mg /5 ml	b.i.d	7 days	375 mg $375 \text{ mg} \times 7 = 2625 \text{ mg}$	105 ml	15 ml extra in suitable available packs of 1x50 ml and 1x70 ml.	Inappropriate
		Suspension	187.5 mg	250 mg /5 ml	b.i.d	7 days	375 mg $375 \text{ mg} \times 7 = 2625 \text{ mg}$	52.5 ml	17.8 ml extra in available pack size of suspension i.e. 70 ml.	Inappropriate
		IV Infusion	7.5 mg / kg (150–217.5 mg)	500 mg	b.i.d	2–5 days	300–435 mg $300\text{--}435 \text{ mg} \times (2\text{--}5) = 600\text{--}2175 \text{ mg}$	300-1087.5 ml 10 vials	350–282.5 mg extra per dose. 700–565 mg extra per day. 1130–3500 mg extra for whole duration.	Inappropriate
Otitis media		Suspension	187.5 mg	125 mg /5 ml	b.i.d	5 days	375 mg $375 \text{ mg} \times 5 = 1875 \text{ mg}$	75 ml	5 ml less in maximum available pack size of suspension i.e. 70 ml.	Inappropriate
		Suspension	187.5 mg	250 mg /5 ml	b.i.d	5 days	375 mg $375 \text{ mg} \times 5 = 1875 \text{ mg}$	37.5 ml	32.5 ml extra in available pack size of suspension i.e. 70 ml.	Inappropriate

b.i.d: Two times a day, **IV:** Intravenous

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day & Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Throat infections	4 to 8 years (20 to 29 kg)	Suspension	187.5 mg	125 mg /5 ml	b.i.d	10 days	375 mg 375 mg × 10 = 3750 mg	150 ml	80 ml less in maximum available pack size of suspension i.e. 70 ml.	Inappropriate
									Quantity is exactly equivalent (i.e. 150 ml) if dispensed with 3 packs i.e. 1x70 ml, 1x50 ml and 1 x30.	Appropriate
		Suspension	187.5 mg	250 mg /5 ml	b.i.d	10 days	375 mg 375 mg × 10 = 3750 mg	75 ml	5 ml extra in available pack size of suspension i.e. 70 ml.	Inappropriate

b.i.d: Two times a day

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day & Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Lyme disease, Helicobacter pylori eradication	4 to 8 years (20 to 29 kg)	Suspension	7.5 mg / kg (150–217.5 mg)	125 mg / 5 ml	b.i.d	14–21 days	300–435 mg 300–435 mg × (14–21) = 4200–9135 mg	168–365.4 ml	8 ml less in 1x70 ml, 1x60 ml and 1 x30 pack sizes and 28 ml extra in 2 maximum pack sizes of suspension i.e. 2 x 70 ml for lowest quantity required. for highest required quantity, 5.4 ml less in 4x70 ml, 1x50 ml and 1 x30 pack sizes and 4.4 ml extra in 4x70 ml, 1x60 ml and 1 x30 pack sizes and 54.6 ml extra in 6 maximum available pack sizes of suspension i.e. 70 ml.	Inappropriate

b.i.d: Two times a day

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day & Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Lyme disease, <i>Helicobacter pylori</i> eradication	4 to 8 years (20 to 29 kg)	Suspension	7.5 mg/kg (150–217.5 mg)	250 mg /5 ml	b.i.d	14–21 days	300–435 mg 300–435 mg × (14–21) = 4200–9135 mg	84–182.7 ml	14 ml less in available pack sizes of suspension i.e. 70 ml and 56 ml extra in 2 x70 ml pack sizes for lowest quantity required. for highest quantity required, 27.3 ml extra in 3 maximum available pack sizes of suspension i.e. 70 ml required quantity. for highest required quantity, 18 ml extra in 4 maximum available pack sizes of suspension i.e. 70 ml.	Inappropriate

b.i.d: Two times a day

Clarithromycin dosage and its calculations for 8 to 12 years children

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day &Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Pneumonia, sinusitis, mild to moderate skin and soft tissue infection, prevention of pertussis	8 to 12 years (30 to 40 kg)	Suspension	250 mg	125 mg /5 ml	b.i.d	7 days	500 mg 500 mg × 7 = 3500 mg	140 ml	Quantity is exactly equivalent to available pack size i.e. 2x70 ml.	Appropriate
		Suspension	250 mg	250 mg /5 ml	b.i.d	7 days	500 mg 500 mg × 7 = 3500 mg	70 ml	Quantity is exactly equivalent to available pack size i.e. 70 ml.	Appropriate
		IV infusion	7.5 mg/kg (225–300 mg)	500 mg	b.i.d	2–5 days	450–600 mg 450–600 mg × (2–5) = 900–3000 mg	4–10 vials	275–200 mg extra per dose. 550–400 mg extra per day. 800–2750 mg extra for whole duration.	Inappropriate
Otitis media		Suspension	250 mg	125 mg /5 ml	b.i.d	5 days	500 mg 500 mg × 5 = 2500 mg	100 ml	Quantity is exactly equivalent available as 1x30 ml. and 1x70 ml	Appropriate
		Suspension	250 mg	250 mg /5 ml	b.i.d	5 days	500 mg 500 mg × 5 = 2500 mg	50 ml	20 ml extra in available pack size of suspension i.e. 70 ml	Inappropriate

b.i.d: Two times a day, **IV:** Intravenous

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day & Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Throat infections	8 to 12 years (30 to 40 kg)	Suspension	250 mg	125 mg /5 ml	b.i.d	10 days	500 mg 500 mg × 5 = 5000 mg	200 ml	Quantity is exactly equivalent available as 2x70 ml and 1x60 ml	Appropriate
									10 ml extra for pack size of 3x70 ml.	Inappropriate
		Suspension	250 mg	250 mg /5 ml	b.i.d	10 days	500 mg 500 mg × 5 = 5000 mg	100 ml	30 ml less in available pack size of suspension i.e. 70 ml. 40 ml extra in available pack size of 2x70 ml.	Inappropriate
Lyme disease, Helicobacter pylori eradication		Suspension	7.5 mg/kg (225-300 mg)	125 mg /5 ml	b.i.d	14–21 days	450–600 mg 450–600 mg × (14–21) = 6300–12600 mg	252–504 ml	2 ml less in available pack sizes of 2x70 ml, 1x60 ml and 1x50 ml and 8 ml extra in available pack sizes of suspension i.e. 3x70 ml and 1x50 for lowest quantity required. for highest quantity required, 6 ml extra in available pack sizes of suspension i.e. 8 x 60 ml and 1x30 ml.	Inappropriate

b.i.d: Two times a day

Clarithromycin dosage and its calculations for 12 to 18 years children

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day &Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Pneumonia, sinusitis, mild to moderate skin and soft tissue infection, prevention of pertussis	12 to 18 years	Suspension	250 mg	125 mg /5 ml	b.i.d	7 days	500 mg 500 × 7 = 3500 mg	140 ml	Quantity is exactly equivalent to available pack size i.e. 2x70 ml.	Appropriate
		Suspension	250 mg	250 mg /5 ml	b.i.d	7 days	500 mg 500 × 7 = 3500 mg	70 ml	Quantity is exactly equivalent to available pack size i.e. 70 ml.	Appropriate
		Tablet	250 mg	250 mg per tab	b.i.d	7 days	500 mg 500 × 7 = 3500 mg	14 tabs	6 tablets extra in 2 pack sizes. (1 pack size = 10 tabs)	Inappropriate
Otitis media		Suspension	250 mg	125 mg /5 ml	b.i.d	5 days	500 mg 500 mg × 5 = 2500 mg	100 ml	Quantity is exactly equivalent in pack sizes of 1x70 ml and 1x30 ml.	Appropriate
		Suspension	250 mg	250 mg /5 ml	b.i.d	5 days	500 mg 500 mg × 5 = 2500 mg	50 ml	20 ml extra in available pack size of suspension i.e. 70 ml.	Inappropriate
		Tablet	250 mg	250 mg per tab	b.i.d	5 days	500 mg 500 mg × 5 = 2500 mg	10 tabs	Quantity equivalent to available pack size of tablets (1 pack = 10 tabs)	Appropriate

b.i.d: Two times a day

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Duration of therapy	Dose/day & Dose/day × No. of days	Quantity of dosage form to be used	Calculation	Result
Throat infections	12 to 18 years	Suspension	250 mg	125 mg /5 ml	b.i.d	10 days	500 mg 500 mg × 5 = 5000 mg	200 ml	10 ml extra in available pack size of 3x70 ml.	Inappropriate
		Suspension	250 mg	250 mg /5 ml	b.i.d	10 days	500 mg 500 mg × 5 = 5000 mg	100 ml	Quantity is exactly equivalent in pack sizes of 1x30 ml and 1x70 ml.	Appropriate
		Tablet	250 mg	250 mg per tab	b.i.d	10 days	500 mg 500 mg × 5 = 5000 mg	20 tabs	Quantity equivalent to 2 available pack size of tablets. (1 pack size = 10 tabs)	Appropriate
Lyme disease, Helicobacter pylori eradication		Tablet	500 mg	500 mg per tab	b.i.d	14-21 days	500 mg 500 mg × 2 = 1000 mg	28-42 tabs	2 tablets extra in 3 available pack sizes i.e. 10 ml for lowest quantity required. For highest required quantity, 2 tablets less in 4 available pack size i.e. 10 ml and 8 tablets extra in 5 available pack size i.e. 10 ml. (1 pack size = 10 tabs)	Inappropriate

b.i.d: Two times a day