

SUPPLEMENTARY FILE 6

AMOXICILLIN

Amoxicillin 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
Pharyngitis, Uncomplicated pneumonia, UTIs, cystic fibrosis	Under 7 days (3.5 to 3.7kg) Under 7 days (3.5 to 3.7kg)	IV Injection or IV Infusion	30 mg/kg (105–111 mg)	250 mg	b.i.d	3 days	210–222 mg 210–222 mg × 3 = 630–666 mg	6 vials	145–139 mg extra per dose. 290–278 mg extra per day. 870–834 mg extra for whole duration.	Inappropriate
Acute otitis media		IV Injection or IV Infusion	30 mg/kg (105–111 mg)	250 mg	b.i.d	5 days	210–222 mg 210–222 mg × 5 = 1050–1110 mg	10 vials	145–139 mg extra per dose. 290–278 mg extra per day. 1450–1390 mg extra for whole duration.	Inappropriate
Sinusitis		IV Injection or IV Infusion	30 mg/kg (105–111 mg)	250 mg	b.i.d	7 days	210–222 mg 210–222 mg × 7 = 1470–1554 mg	14 vials	145–139 mg extra per dose. 290–278 mg extra per day. 2030–1946 mg extra for whole duration.	Inappropriate

IV: Intravenous, **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
Septicemia, complicated pneumonia, salmonellosis	Under 7 days (3.5 to 3.7kg) Under 7 days (3.5 to 3.7kg)	IV Injection or IV Infusion	60 mg/kg (210–222 mg)	250 mg	b.i.d	7 days	420–444 mg 420–444 mg × 7 = 2940–3108 mg	14 vials	40–28 mg extra per dose. 80–56 mg extra per day. 560–392 mg extra for whole duration.	Inappropriate
Group B streptococcus infections		IV Infusion	50 mg/kg (175–185 mg)	250 mg	b.i.d	14 days	350–370 mg 350–370 mg × 4 = 1400–1480 mg	28 vials	75–65 mg extra per dose. 150–130 mg extra per day 2100–1820 mg extra for whole duration.	Inappropriate
Meningitis		IV Infusion	100 mg/kg (350–370 mg)	500 mg	b.i.d	14 days	700–740 mg 700–740 mg × 4 = 2800–2960 mg	28 vials	150–130 mg extra per dose. 300–260 mg extra per day 4200–3640 mg extra for whole duration	Inappropriate

IV: Intravenous, 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
Pharyngitis, Uncomplicated pneumonia, UTIs, cystic fibrosis	7–28 days (3.7 to 4.3kg)	Drops	30 mg/kg max 125 mg so (111–125 mg)	125 mg /1.25 ml	t.i.d	3 days	333–375 mg, 333–375 mg × 3 = 999–1125 mg	140–148 ml	1.25 ml less in minimum available pack size of drops i.e. 10 ml. 8.75 ml extra in maximum available pack size of drops i.e. 20 ml.	Inappropriate
		Suspension	30 mg/kg max 125 mg so (111–125 mg)	125 mg /5 ml	t.i.d	3 days	333–375 mg, 333–375 mg × 3 = 999–1125 mg	9.99–11.25 ml	15 ml extra in minimum available pack size of suspension i.e. 60 ml.	Inappropriate
		IV Injection or IV Infusion	30 mg/kg max 125 mg so (111–125 mg)	250 mg	t.i.d	3 days	333–375 mg, 333–375 mg × 3 = 999–1125 mg	9 vials	139–125 mg extra per dose. 417–375 mg extra per day 1251–1125 mg extra for whole duration.	Inappropriate

t.i.d: three 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
Acute otitis media	7–28 days (3.7 to 4.3kg)	Drops	30 mg/kg max 125 mg so (111–125 mg)	125 mg / 1.25 ml	t.i.d	5 days	333–375 mg 333–375 mg × 5 = 1665–1875 mg	16.65–18.75 ml	1.25 ml extra in maximum available pack size of drops i.e. 20 ml and 8.75 ml less in minimum available pack size of drops i.e. 10 ml.	Inappropriate
		Suspension	30 mg/kg max 125 mg so (111–125 mg)	125 mg / 5 ml	t.i.d	5 days	333–375 mg 333–375 mg × 5 = 1665–1875 mg	66.6 ml–75 ml	6.6 ml less in minimum available pack size of suspension i.e. 60 ml and 15 ml extra in maximum available pack size of suspension i.e. 90 ml	Inappropriate
		IV injection or IV Infusion	30 mg/kg max 125 mg so (111–125 mg)	250 mg	t.i.d	5 days	333–375 mg 333–375 mg × 5 = 1665–1875 mg	15 vials	139–125 mg extra per dose. 417–375 mg extra per day 2085–1875 mg extra for whole duration	Inappropriate

t.i.d: three 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
Sinusitis	7–28 days (3.7 to 4.3kg)	Suspension	30 mg/kg max 125 mg so (111–125 mg)	125 mg /5 ml	t.i.d	7 days	333–375 mg $333-375 \text{ mg} \times 7 =$ 2331–2625 mg	93.24- 105 ml	3.24 ml less in maximum available pack size of suspension i.e. 90 ml	Inappropriate
		IV injection or IV Infusion	30 mg/kg max 125 mg so (111–125 mg)	250 mg	t.i.d	5 days	333–375 mg $333-375 \text{ mg} \times 5 =$ 1665–1875 mg	15 vials	139–125 mg extra per dose. 417–375 mg extra per day 2085–1875 mg extra for whole duration	Inappropriate
Group B Streptococcus infections		IV Infusion	50 mg/kg (185–215 mg)	250 mg	t.i.d	14 days	555–645 mg $555-645 \text{ mg} \times 14 =$ 7770–9030 mg	1554– 1806 ml	65–35 mg extra per dose. 195–105 mg extra per day 2730–1470 mg extra for whole duration	Inappropriate
Meningitis		IV infusion	100 mg/kg (370–430 mg)	500 mg	t.i.d	14 days	1110–1290 mg $1110-1290 \text{ mg} \times 14 =$ 15540–18060 mg	42 vials	130–70 mg extra per dose. 390–210 mg extra per day. 5460–2940 mg extra for whole duration.	Inappropriate

t.i.d: three times a day, **IV:** Intravenous

Amoxicillin 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
Pharyngitis, Uncomplicated pneumonia, UTIs, cystic fibrosis	1 month to 1 year (4.3 to 9kg)	Suspension	125 mg	125 mg /5 ml	t.i.d	3 days	375 mg $375 \text{ mg} \times 3 = 1125 \text{ mg}$	45 ml	15 ml extra in minimum available pack size of suspension i.e. 60 ml.	Inappropriate
		IV Injection IV Infusion	20–30 mg/kg Max.500 mg (86–129 to 180–270 mg)	250 mg	t.i.d	3 days	540–810 mg $540\text{--}810 \text{ mg} \times 3 = 1620\text{--}2430 \text{ mg}$	9 vials	164 mg extra per dose. 328 mg extra per day. 984 mg extra for whole duration.	Inappropriate
		IV Injection IV Infusion	20–30 mg/kg Max.500 mg (86–129 to 180–270 mg)	500 mg	t.i.d	3 days	540–810 mg $540\text{--}810 \text{ mg} \times 3 = 1620\text{--}2430 \text{ mg}$	9 vials	330 mg extra per dose. 660 mg extra per day. 1980 mg extra for whole duration.	Inappropriate
Acute otitis media	1 month to 1 year (4.3 to 9kg)	Suspension	125 mg	125 mg /5 ml	t.i.d	5 days	375 mg $375 \text{ mg} \times 5 = 1875 \text{ mg}$	75 ml	15 ml less in minimum pack size of suspension i.e. 60 ml and 15 ml extra in maximum pack size of suspension i.e. 90 ml	Inappropriate

t.i.d: three 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
Acute otitis media	1 month to 1 year (4.3 to 9kg)	IV Injection	20–30 mg/kg Max.500 mg (86–129 to 180–270 mg)	250 mg	t.i.d	5 days	258–810 mg 258–810 mg × 5 = 1290–4050 mg	15 vials	164 mg extra per dose. 492 mg extra per day. 2460 mg extra for whole duration.	Inappropriate
Acute otitis media	1 month to 1 year (4.3 to 9kg)	IV Injection	20–30 mg/kg Max.500 mg (86–129 to 180–270 mg)	500 mg	t.i.d	5 days	258–810 mg 258–810 mg × 5 = 1290–4050 mg	15 vials	330 mg extra per dose. 990 mg extra per day. 4950 mg extra for whole duration.	Inappropriate

t.i.d: three 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
Acute otitis media	1 month to 1 year (4.3 to 9kg)	Suspension	125 mg	125 mg /5 ml	t.i.d	7 days	375 mg 375 mg × 7 = 2625 mg	105 ml	15 ml less in maximum pack size of suspension i.e. 90 ml	Inappropriate
		IV Injection or IV Infusion	20–30 mg/kg Max.500 mg (86–129 to 180–270 mg)	250 mg	t.i.d	7 days	258–810 mg 258–810 mg × 7 = 1806–5670 mg	21 vials	164 mg extra per dose. 492 mg extra per day. 3444 mg extra for whole duration.	Inappropriate
Acute otitis media	1 month to 1 year (4.3 to 9kg)	IV Injection or IV Infusion	20–30 mg/kg Max.500 mg (86–129 to 180–270 mg)	500 mg	t.i.d	7 days	258–810 mg 258–810 mg × 7 = 1806–5670 mg	21 vials	330 mg extra per dose. 990 mg extra per day. 6390 mg extra for whole duration.	Inappropriate

t.i.d: three 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
Group B Streptococcus infections	1 month to 1 year (4.3 to 9kg)	IV Infusion	50 mg/kg Max 2g (215–450 mg)	250 mg	q.i.d	14 days	860–1800 mg 860–1800 mg × 14 = 12040–25200 mg	56 vials	35 mg extra per dose. 140 mg extra per day 1960 mg extra for whole duration.	Inappropriate
		IV Infusion	50 mg/kg Max 2g (215–450 mg)	500 mg	q.i.d	14 days	860–1800 mg 860–1800 mg × 14 = 12040–25200 mg	56 vials	50 mg extra per dose. 200 mg extra per day 2800 ml extra for whole duration.	Inappropriate

q.i.d: four 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
Meningitis	1 month to 1 year (4.3 to 9kg)	IV infusion	100 mg/kg (430–900 mg)	500 mg	q.i.d	14 days	1720–3600 mg 1720–3600 mg × 14 = 24080–50400 mg	56 vials	70 mg extra for lower dose range for dose strength of 500 mg per dose. 100 mg extra for upper dose range for 2 packs of dose strength of 500 mg per dose. 280 mg extra for lower dose range for dose strength of 500 mg per day. 400 mg extra for upper dose range for 2 packs of dose strength of 500 mg per day. 3920 mg extra for lower dose range for dose strength of 500 mg for whole duration. 5600 mg extra for upper dose range for 2 packs of dose strength of 500 mg for whole duration.	Inappropriate

q.i.d: four times a day, **IV:** Intravenous

Amoxicillin dosage and its calculations for 1 to 5 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
Pharyngitis, Uncomplicated pneumonia, UTIs, cystic fibrosis	1 to 5 year (9-18 kg)	Suspension	250 mg	250 mg /5 ml	t.i.d	3 days	750 mg 750 mg × 3 = 2250 mg	45 ml	15 ml extra in minimum pack size of suspension i.e. 60 ml.	Inappropriate
		IV Injection	20–30 mg/kg Max. 500 mg (180–270 to 360–540 mg)	250 mg	t.i.d	3 days	540–1620 mg 540–1620 mg × 3 = 1620–4860 mg	9 vials	70 mg extra per dose. 140 mg extra per day. 420 mg extra for whole duration.	Inappropriate
		IV Injection	20–30 mg/kg Max. 500 mg (180–270 to 360–540 mg)	500 mg	t.i.d	3 days	540–1620 mg 540–1620 mg × 3 = 1620–4860 mg	9 vials	Quantity is exactly equivalent to pack size for upper dose range i.e. 500 mg.	Appropriate

t.i.d: three 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
Acute otitis media	1 to 5 year (9-18 kg)	Suspension	250 mg	250 mg /5 ml	t.i.d	5 days	750 mg $750 \text{ mg} \times 5 = 3750 \text{ mg}$	75 ml	15 ml extra in minimum pack size of suspension i.e. 60 ml and 15 ml extra in maximum pack size of suspension i.e. 90 ml	Inappropriate
		IV Injection	20–30 mg/kg Max.500 mg (180–270 to 360–540 mg)	250 mg	t.i.d	5 days	540–1620 mg $540\text{--}1620 \text{ mg} \times 5 = 2700\text{--}8100 \text{ mg}$	15 vials	70 mg extra per dose. 140 mg extra per day. 700 mg extra for whole duration.	Inappropriate
		IV Injection	20–30 mg/kg Max.500 mg (180–270 to 360–540 mg)	250 mg	t.i.d	5 days	540–1620 mg $540\text{--}1620 \text{ mg} \times 5 = 2700\text{--}8100 \text{ mg}$	15 vials	Quantity is exactly equivalent to pack size for upper dose range i.e. 500 mg	Appropriate

t.i.d: three 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
Sinusitis	1 to 5 year (9–18 kg)	Suspension	250 mg	250 mg /5 ml	t.i.d	7 days	750 mg 750 mg × 7 = 5250 mg	105 ml	15 ml less in maximum pack size of suspension i.e. 90 ml	Inappropriate
		IV Injection	20–30 mg/kg Max.500 mg (180–270 to 360–540 mg)	250 mg /5 ml	t.i.d	7 days	540–1620 mg 540–1620 mg × 7 = 3780–11340 mg	75.6–226.8 ml	1.4 ml extra per dose. 4.2 ml extra per day. 29.4 ml extra for whole duration.	Inappropriate
		IV Injection	20–30 mg/kg Max.500 mg (180–270 to 360–540 mg)	500 mg /10 ml	t.i.d	7 days	540–1620 mg 540–1620 mg × 7 = 3780–11340 mg	75.6–226.8 ml	Quantity is exactly equivalent to pack size for upper dose range i.e. 500 mg /10 ml	Appropriate

t.i.d: three 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
Group B Streptococcus infections	1 to 5 year (9–18 kg)	IV Infusion	50 mg/kg Max 2g (450–900 mg)	1g	q.i.d	14 days	1800–3600 mg 1800–3600 mg × 14 = 25200–50400 mg	56 vials	50 mg extra for per dose. 200 ml extra per day. 2800 ml for whole duration.	Inappropriate
		IV Infusion	50 mg/kg Max 2g (450–900 mg)	1g	q.i.d	14 days	1800–3600 mg 1800–3600 mg × 14 = 25200–50400 mg	56 vials	100 mg extra per dose. 400 mg extra per day. 5600 mg extra for whole duration.	Inappropriate

q.i.d: four 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
Meningitis	1 to 5 year (9–18 kg)	IV Infusion	100 mg/kg (900 mg–1800 mg)	1g	t.i.d	14 days	2700–5400 mg 2700–5400 mg × 14 = 37800–75600 mg	42 vials	100 mg extra for lower dose range for dose strength of 1000 mg per dose. 300 mg extra for lower dose range for dose strength of 1000 mg/100 ml per day. 4200 mg extra for lower dose range for dose strength of 1000 mg for whole duration. 200 mg extra for higher dose range for dose strength of 2 x pack of 1000 mg per dose. 600 mg extra for higher dose range for dose strength of 2 x pack of 1000 mg per day. 8400 mg extra for higher dose range for dose strength of 2 x pack of 1000 mg for whole duration.	Inappropriate

IV: Intravenous, **t.i.d:** three times a day

Amoxicillin dosage and its calculations for 5 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
Pharyngitis, Uncomplicated pneumonia, UTIs, cystic fibrosis	5 to 12 year (18–39kg)	Suspension	500 mg	250 mg /5 ml	t.i.d	3 days	1500 mg $1500 \text{ mg} \times 3 = 4500 \text{ mg}$	90 ml	Quantity is exactly equivalent to available pack size i.e. 90 ml	Appropriate
		IV Injection	20-30 mg/kg Max.500 mg (360–540 to 780–1170 mg)	500 mg	t.i.d	3 days	1080–3510 mg $1080\text{--}3510 \text{ mg} \times 3 = 3240\text{--}10530 \text{ mg}$	15 vials	140 mg extra for lower dose range for dose strength of 500 mg per dose. 420 mg extra for lower dose range for dose strength of 500 mg per day. 1260 mg extra for lower dose range for dose strength of 500 mg for whole duration.	Inappropriate
									Quantity is exactly equivalent to pack size for upper dose range for upper dose range i.e. 500 mg	Appropriate

IV: Intravenous, **t.i.d:** three 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
Acute otitis media	5 to 12 year (18–39kg)	Suspension	500 mg	250 mg /5 ml	t.i.d	5 days	1500 mg 1500 mg × 5 = 7500 mg	150 ml	Quantity is exactly equivalent if 2 packs of suspension are dispensed 1 x 60 ml and 1 x 90 ml.	Appropriate
		IV Injection	20–30 mg/kg Max.500 mg (360–540 to 780–1170 mg)	500 mg	t.i.d	5 days	1080–3510 mg 1080–3510 mg × 5 = 5400–17550 mg	15 vials	140 mg extra for lower dose range for dose strength of 500 mg per dose. 420 mg extra for lower dose range for dose strength of 500 mg per day. 2100 mg extra for lower dose range for dose strength of 500 mg for whole duration.	Inappropriate
									Quantity is exactly equivalent to pack size for upper dose range i.e. 500 mg	Appropriate

IV: Intravenous, **t.i.d:** three 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
Sinusitis	5 to 12 year (18–39 kg)	Suspension	500 mg	250 mg /5 ml	t.i.d	7 days	1500 mg 150 mg × 7 = 1050 mg	210 ml	Quantity is exactly equivalent if 3 packs of suspension are dispensed 1x90 ml and 2x60 ml.	Appropriate
		IV Injection	20–30 mg/kg Max. 500 mg (360–540 to 780–1170 mg)	500 mg	t.i.d	7 days	1080–3510 mg 1080–3510 mg × 7 = 7560–24570 mg	21 vials	140 mg extra for lower dose range for dose strength of 500 mg per dose. 420 mg extra for lower dose range for dose strength of 500 mg per day. 2940 mg extra for lower dose range for dose strength of 500 mg for whole duration.	Inappropriate
									Quantity is exactly equivalent to pack size for upper dose range i.e. 500 mg	Appropriate

IV: Intravenous, **t.i.d:** three 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
Group B Streptococcus infections	5 to 12 year (18–39 kg)	IV Infusion	50 mg/kg Max 2g (900–1950 mg)	1g	q.i.d	14 days	3600–7800 mg 3600–7800 mg × 14 = 50400–109200 mg	56 vials	100 mg extra per lower dose range for dose strength of 1g 400 mg extra for lower dose range for dose strength of 1g per day. 5600 mg extra for lower dose range for dose strength of 1g for whole duration. 50 mg extra per upper dose range for 2 x dose strength of 1g. 200 mg extra for upper dose range for dose strength of 1g per day. 800 mg extra for upper dose range for dose strength of 1g for whole duration.	Inappropriate

IV: Intravenous, **q.i.d:** four 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
Meningitis	5 to 12 year (18–39 kg)	IV Infusion	100 mg/kg (1800–3900 mg)	1g	t.i.d	14 days	5400–11700 mg 5400–11700 mg × 14 = 75600–163800 mg	42 vials	200 mg extra per lower dose range for 2x dose strength of 1g 600 mg extra for lower dose range for dose strength of 1g per day. 8400 mg extra for lower dose range for dose strength of 1g for whole duration. 100 mg extra per higher dose range for 4 x dose strength of 1g. 300 mg extra for higher dose range for 4 x dose strength of 1g per day. 4200 mg extra for higher dose range for 4 x dose strength of 1g for whole duration.	Inappropriate

IV: Intravenous, **t.i.d:** three times a day,

Amoxicillin dosage and its calculations for 12 to 18 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
Pharyngitis, Uncomplicated pneumonia, UTIs, cystic fibrosis	12 to 18 year (39–54 kg)	capsule	500 mg	250 mg 500 mg	t.i.d	3 days	1500 mg 1500 mg × 3 = 4500 mg	18 capsules of 250 mg and 9 capsules of 500 mg	12 capsule are extra of minimum strength i.e. 250 mg	Inappropriate
		IV Injection	20–30 mg/kg (780–1170 to 1080–1620 mg)	1g	t.i.d	3 days	2340–4860 mg 2340–4860 mg × 3 = 7020–14580 mg	9 vials	220 mg extra for lower dose range for dose strength of 1g per dose. 660 mg extra for lower dose range for dose strength of 1g per day. 1980 mg extra for lower dose range for dose strength of 1g for whole duration. 380 mg extra for higher dose range for 2x packs of strength of 1g per dose. 1140 mg extra for higher dose range for 2x packs of strength of 1g per day. 3420 mg extra for higher dose range for 2x packs strength of 1g for whole duration.	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
Acute otitis media	12 to 18 year (39–54 kg)	Capsule	500 mg	250 mg 500 mg	t.i.d	5 days	1500 mg $1500 \text{ mg} \times 5 = 7500 \text{ mg}$	30 capsules of 250 mg and 15 capsules of 500 mg	10 capsules of 250 mg strength are less and 5 capsules are of strength 500 mg.	Inappropriate
		IV Injection	20–30 mg/kg (780–1170 to 1080–1620 mg)	1g	t.i.d	5 days	2340–4860 mg $2340–4860 \text{ mg} \times 5 = 11700–24300 \text{ mg}$	15 vials	220 mg extra for lower dose range for dose strength of 1 g per dose. 660 mg extra for lower dose range for dose strength of 1g per day. 3300 mg extra for lower dose range for dose strength of 1 g for whole duration. 380 mg extra for upper dose range for 2 packs of strength of 1 g per dose. 1140 mg extra for upper dose range for 2 packs of strength of 1g per day. 5700 mg extra for upper dose range for strength of 1 g for whole duration.	Inappropriate

IV: Intravenous, **t.i.d:** three 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
Sinusitis	12 to 18 year (39–54 kg)	Capsules	500 mg	250 mg 500 mg	t.i.d	7 days	1500 mg $150 \text{ mg} \times 7 = 1050 \text{ mg}$	42 capsules of 250 mg and 15 capsules of 500 mg	2 capsules of strength 250 mg are less and 5 are extra of strength 500 mg	Inappropriate
		IV Injection	20–30 mg/kg (780–1170 to 1080–1620 mg)	1 g	t.i.d	7 days	2340–4860 mg $2340\text{--}4860 \text{ mg} \times 7 = 16380\text{--}34020 \text{ mg}$	21 vials	220 mg extra for lower dose range for dose strength of 1 g per dose. 660 mg extra for lower dose range for dose strength of 1g per day. 4620 mg extra for lower dose range for dose strength of 1 g for whole duration. 380 mg extra for upper dose range for 2 packs of strength of 1 g per dose. 1140 mg extra for upper dose range for 2 packs of strength of 1g per day. 7980 mg extra for upper dose range for strength of 1 g for whole duration.	Inappropriate

IV: Intravenous, **t.i.d:** three 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
Group B Streptococcus infections	12 to 18 year (39–54 kg)	IV Infusion	50 mg/kg (1950 mg to 2700 mg)	1 g	q.i.d	14 days	7800–10800 mg 780–10800 mg × 14 = 109200–151200 mg	56 vials	50 mg extra for lower dose range for 2 x dose strength of 1 g per dose. 200 mg extra for lower dose range for 2 x dose strength of 1g per day. 2800 mg extra for lower dose range for dose strength of 1 g for whole duration. 300 mg extra for upper dose range for 3 packs of strength of 1 g per dose. 1200 mg extra for upper dose range for 3 packs of strength of 1g per day. 16800 mg extra for upper dose range for 3 packs of strength of 1 g for whole duration.	Inappropriate

IV: Intravenous, **q.i.d:** four times a day

Infections	Age (weight)	Dosage form	Dose	Strength	Dosing frequency	Dose/day & Dose/day × No. of days	Duration of therapy	Quantity of dosage form to be used	Calculation	Result
Meningitis	12 to 18 year (39–54 kg)	IV Infusion	100 mg/kg (3900–5400 mg)	1 g	t.i.d	11700–16200 mg 11700–16200 mg × 14 = 163800–226800 mg	14 days	42 vials	100 mg extra per lower dose range for 4 x dose strength of 1 g. 300 mg extra for lower dose range for 4 x dose strength of 1 g per day. 4200 mg extra for lower dose range for 4 x dose strength of 1 g for whole duration. 600 mg extra per higher dose range for 6 x dose strength of 1 g. 1800 mg extra for higher dose range for 6 x dose strength of 1 g per day. 25200 mg extra for higher dose range for 6 x dose strength of 1 g for whole duration.	Inappropriate

IV: Intravenous, **t.i.d:** three times a day