Note: Pharmacy supply may change

Table 1. Dosing and administration recommendations for antibiotic and anti-viral therapy

All medications to be reconstituted with sterile water unless otherwise stipulated in the table.

Drug name	Dose	Preparation	Infusion rate
*Acyclovir *Vial=250mg*	20mg/kg/dose IVI — 8 hourly <34 weeks or renal/hepatic failure — 12 hourly	Reconstitute: 250mg vial with 10mls **Final concentration:** 25mg/ml	60 minutes
*Amikacin *Vial=100mg/2ml* *(TDM before 3rd dose)*	15mg/kg/dose IVI 24 hourly	Dilution: Draw up 1ml (50mg) from vial, add 4mls sterile water for injection to make a total of 5ml. **Final concentration:** 10mg/ml	30- 60minutes
*Amphotericin B Vial=50mg (Fungizone)	1mg/kg/dose IVI 24 hourly	Reconstitute 50mg vial with 10ml sterile water shaking vial immediately until solution is clear. **Initial concentrate:** 5mg/ml Now dilute with 0.2ml (1mg) of above concentrate with 9.8ml 5% dextrose water to final concentration of 0.1mg/ml. **Final concentration:** 1mg/10ml or 0.1mg/ml	4 hours Slow intravenous infusion
*Ampicillin *Vial= 500mg* *Or* *250mg*	50-100mg/kg/dose IVI 8 hourly **Except:** 1st week of life **and** <2kg — 12 hourly	Reconstitute: 500mg vial with 5mls **Final Concentration:** 100mg/ml *OR* Reconstitute 250mg vial: with 5mls **Final Concentration:** 50mg/ml	Slow bolus over 5 minutes
*Benzylpenicillin *Vial= 5 000 000 IU*	50 000-100 000IU/kg/dose IVI **Preterm** — 1st week of life — 12 hourly >1 week old — 8 hourly **Term** — Any postnatal age — 6 hourly	Reconstitute 50 00000 IU vial with 10mls **Final concentration:** 500 000IU/ml	30 minutes

. TDM= therapeutic drug monitoring; *Discuss drug dosing with clinical pharmacology in cases of renal impairment; # Authorization required +/- Section 21

Drug name	Dose	Preparation	Infusion rate
*Cefepime Vial =500mg	50mg/kg/dose 8 hourly IVI	Reconstitute 500mg vial with 5mls **Final concentration:** 100mg/ml *OR* Reconstitute 1g with 10mls **Final concentration:** 100mg/ml	30 minutes
Cefotaxime *Vial=1g*	50 – 100mg/kg/dose IVI 1st week of life: 12 hourly > 1-3 weeks: 8 hourly >3 weeks: 6 hourly	Reconstitute 1g vial with 40mls **Final concentration:** 25mg/ml	60 minutes
*Ceftazidime Vial=1g	30-50mg/kg/dose IVI > 1-3 weeks: 12 hourly >3 weeks: 8 hourly 50mg/kg/dose if meningitis expected or proven	Reconstitute 1g vial with 10mls **Final concentration:** 100mg/ml	30 minutes
Ceftriaxone Vial=1g	75-100mg/kg/dose IVI 24 hourly	Reconstitute 1g vial with 10mls **Final concentration:** 100mg/ml	Slow bolus over 5 minutes
Cloxacillin *Vial=500mg* *or* *250mg*	50mg/kg/dose IVI 1st week of life: 12 hourly > 1-4 weeks: 8 hourly	Reconstitute 500mg vial with 10mls **Final concentration:** 50mg/ml *OR* Reconstitute 250mg vial with 5mls **Final concentration:** 50mg/ml	Slow bolus over 5 minutes
*#Colistin	Loading dose: 118 000 IU/kg IVI Maintenance dose: 74 000 IU/kg 12 hourly IVI	Refer to colistin dilution **Table 2.**	
*Fluconazole 200mg/100ml	Loading dose: 25mg/kg IVI Maintenance dose: 20mg/kg/dose IVI 24 hourly	**Final concentration:** 2mg/ml	30-60 minutes

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Drug name	Dose	Preparation	Infusion rate
*Gancyclovir Vial=500mg	6 mg/kg/dose 12 hourly IVI	Reconstitute 500mg vial in 10 ml of sterile water. Initial concentration: 50mg/ml Take 0.2ml of above concentrate (50mg/ml) dilute up to 10mls with 5% dextrose. **Final concentration:** 10mg/ml Final concentration for infusion should not exceed 10mg/ml.	60 minutes
*Gentamicin *Vial=80mg/2ml* *(TDM before 3rd dose)*	5mg/kg/dose IVI 24 hourly	Dilute: Draw up 1ml (40mg) from vial, add 3ml sterile water for injection to make a total of 4ml. **Final concentration:** 10mg/ml	30 minutes
*Meropenem *Vial=500mg or 1g*	20 – 40 mg/kg/dose IVI 8 hourly 40mg/kg/dose IVI if meningitis suspected	Reconstitute 500mg vial with 10mls **Final concentration:** 50mg/ml *OR* Reconstitute 1g vial with 20mls Final concentration: 50mg/ml	15-30 minutes

#Micafungin
Vial=50 mg or 100 mg
	Loading dose:15mg/kg IVI
	Maintenance: 10mg/kg/dose IVI 24 hourly
		Reconstitute vial with 5% dextrose.
		For a 50mg vial reconstitute with 5mls giving a concentration of: 10mg/ml
		
		For a 100mg vial reconstitute with 5mls giving a concentration of: 20mg/ml
		
		Further dilute above concentrate with 5% dextrose.
		For 10mg/ml concentrate, dilute up to 10mls.
		For 20mg/ml concentrate, dilute up to 20mls.
		Final concentration: 1mg/ml.
		
		Reconstituted drug should be further diluted in normal saline or 5% Dextrose to a final concentration between 0.5 to 1.5 mg/mL prior to administration.
		Diluted infusion should be protected from light and may be stored at room temperature for up to 24 hours before use. An existing IV line should be flushed with normal saline prior to administration.
			60 minutes

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Drug name	Dose	Drug name	Infusion rate
*Piperacillin-tazobactam *Vial=4g/0.5g*	100 mg/kg/dose IVI 8 hourly	Reconstitute 4g/0.5g vial with 20mls **Final concentration:** 200mg/ml	30 minutes

#Tigecycline
Vial=50mg/5ml
	Loading dose: 1.5mg/kg
	Maintenance: 1-2mg/kg/dose IVI 12 hourly
	
	If no loading dose given 2mg/kg/dose 12hourly
		5.3 mL of 0.9% NaCl or 5% Dextrose injection or Lactate Ringer's solution to achieve a concentration of 10 mg/ml. Once reconstituted, may be stored at room temperature for up to 24 hours.	30min

*Vancomycin *Vial=500mg* *(TDM before 3rd dose)*	Loading dose: 25mg/kg IVI Maintenance: 15mg/kg/dose IVI <table><tr><td><35 weeks CGA</td><td>12 hourly</td></tr><tr><td>> 35 weeks CGA</td><td>8 hourly</td></tr></table>	Reconstitute 500mg vial with 100mls 5% dextrose water **Final concentration:** 5mg/ml	60 minutes

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