

APPENDIX 4: NEONATAL ANTIMICROBIAL DOSING

**Please refer to “KKH Neonatal Intensive Care Unit: Neonatal Drug Dosing Booklet (3rd ed – 2014)”*

Antimicrobial	PMA ≤29 weeks, ≤28d of life	PMA ≤29 weeks, >28d of life	PMA 30-36 weeks, ≤14d of life	PMA 30-36 weeks, >14d of life	PMA 37-44 weeks, ≤7d of life	PMA 37-44 weeks, >7d of life	PMA ≥45 weeks
Ampicillin (bacteremia/ non-meningitis)	100mg/kg/day Q12H	150mg/kg/day Q8H	100mg/kg/day Q12H	150mg/kg/day Q8H	100mg/kg/day Q12H	150mg/kg/day Q8H	100mg/kg/day Q6H
Ampicillin (meningitis/ GBS infection)	200mg/kg/day Q12H	300mg/kg/day Q8H	200mg/kg/day Q12H	300mg/kg/day Q8H	200mg/kg/day Q12H	300mg/kg/day Q8H	200mg/kg/day Q4-6H (Higher doses of 300-400mg/kg/day may be given for GBS meningitis)
Penicillin G (bacteremia/ non-meningitis)	100k U/kg/day Q12H	150k U/kg/day Q8H	100k U/kg/day Q12H	150k U/kg/day Q8H	100k U/kg/day Q12H	150k U/kg/day Q8H	200k U/kg/day Q6H
Penicillin G (meningitis)	200k U/kg/day Q12H	300k U/kg/day Q8H	200k U/kg/day Q12H	300k U/kg/day Q8H	200k U/kg/day Q12H	300k U/kg/day Q8H	400k U/kg/day Q6H (Higher doses of 450-500k U/kg/day may be given for GBS meningitis)
Cefotaxime (bacteremia/ meningitis)	100mg/kg/day Q12H	150mg/kg/day Q8H	100mg/kg/day Q12H	150mg/kg/day Q8H	100mg/kg/day Q12H	150mg/kg/day Q8H	200-300mg/kg/day Q6-8H
Clindamycin	5mg/kg/dose Q12H	5mg/kg/dose Q8H	5mg/kg/dose Q12H	5mg/kg/dose Q8H	5mg/kg/dose Q12H	5mg/kg/dose Q8H	10mg/kg/dose Q6H
Metronidazole (maintenance doses)	Loading dose of 15mg/kg/dose followed by maintenance dose (one dosing interval after initial dose)						
	7.5mg/kg/dose Q48H	7.5mg/kg/dose Q24H	7.5mg/kg/dose Q24H	7.5mg/kg/dose Q12H	7.5mg/kg/dose Q24H	7.5mg/kg/dose Q12H	7.5mg/kg/dose Q8H
	PMA ≤29 weeks, ≤14d of life	PMA ≤29 weeks, >14d of life	PMA 30-36 weeks, ≤14d of life	PMA 30-36 weeks, >14d of life	PMA 37-44 weeks, ≤7d of life	PMA 37-44 weeks, >7d of life	PMA ≥45 weeks
Vancomycin	15mg/kg/dose Q18H	15mg/kg/dose Q12H	15mg/kg/dose Q12H	15mg/kg/dose Q8H	15mg/kg/dose Q12H	15mg/kg/dose Q8H	15mg/kg/dose Q6H
	PMA ≤29 weeks, ≤7d of life	PMA ≤29 weeks, 8-28d of life	PMA ≤29 weeks, ≥29d of life	PMA 30-34 weeks, ≤7d of life	PMA 30-34 weeks, >7d of life	PMA ≥35weeks	PMA ≥45weeks; Refer to Paeds Guidelines if ≥1mth
Gentamicin	5mg/kg/dose Q48H	4mg/kg/dose Q36H	4mg/kg/dose Q24H	4.5mg/kg/dose Q36H	4mg/kg/dose 24H	4mg/kg/dose 24H OR 2.5mg/kg/dose Q8H	5-6mg/kg/dose 24H OR 2.5mg/kg/dose Q8H
Amikacin	18mg/kg/dose Q48H	15mg/kg/dose Q36H	15mg/kg/dose Q24H	18mg/kg/dose Q36H	15mg/kg/dose Q24H	15mg/kg/dose Q24H OR 7.5mg/kg/dose Q12H	

APPENDIX 4: NEONATAL ANTIMICROBIAL DOSING (cont'd)

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Antimicrobial	<2kg, ≤7 d of life	<2kg, >7 d of life	≥2kg, ≤7 d of life	≥2kg, >7 d of life	>1mth of life	
Cloxacillin	100mg/kg/day Q12H	150mg/kg/day Q8H	150mg/kg/day Q8H	200mg/kg/day Q6H	200mg/kg/day Q6H	
	PMA <34 weeks	PMA ≥34 weeks				
Acyclovir	20mg/kg/dose Q12H	20mg/kg/dose Q8H				
	PMA <32 weeks, <14d of life	PMA <32 weeks, ≥14d of life	PMA ≥32 weeks			
Meropenem (bacteremia/ non-meningitis)	20mg/kg/dose Q12H	20mg/kg/dose Q8H	20mg/kg/dose Q8H			
Meropenem (meningitis, severe^)	40mg/kg/dose Q12H	40mg/kg/dose Q8H	40mg/kg/dose Q8H			

For maximum doses/dosage adjustments in renal dysfunction, please contact respective satellite pharmacists

^see "KKH Carbapenem Guidelines"