Dosing for PERIOPERATIVE Antibiotic Prophylaxis |TABLE 3

Note: Dosing based on normal renal function for age and weight. For patients with renal dysfunction, please contact the OR pharmacist. For procedure length exceeding 10 hours, please consult the OR pharmacist for further re-dosing recommendations.

CEFAZOLIN: administer over 3-5 minutes

Age/Weight	Dosing	Time for Re-dose (OR Only)
Neonates ≤ 7 days OR ≤ 2 kg	30 mg/kg/dose	8 hours
Neonates > 7 days AND > 2 kg	30 mg/kg/dose	4 hours
Infants > 1 month, children, adolescents and adults	30 mg/kg/dose (maximum <120kg: 2,000 mg/dose, ≥ 120kg: 3,000 mg/dose)	4 hours

CLINDAMYCIN: administer over 10-30 minutes (rate not to exceed 30 mg/minute)

Age/Weight	Dosing	Time for Re-dose (OR Only)
Neonates ≤ 7 days OR ≤ 2 kg	5 mg/kg/dose	12 hours
Neonates > 7 days AND > 2 kg	5 mg/kg/dose	6 hours
Infants > 1 month, children, adolescents and adults	10 mg/kg/dose (maximum 900 mg/dose)	6 hours

VANCOMYCIN: administer over 60 minutes

Age/Weight	Dosing	Time for Re-dose (OR Only)
Neonates ≤ 7 days OR ≤ 2 kg	15 mg/kg/dose	Do not re-dose
Neonates > 7 days AND > 2 kg	15 mg/kg/dose	8 hours*
Infants > 1 month, children ≤ 50 kg	15 mg/kg/dose (maximum 1000 mg/dose)	8 hours*

*Re-dosing in patients with impaired renal function may vary; please contact the OR pharmacist.

GENTAMICIN: administer over 30 minutes

Age/Weight	Dosing	Time for Re-dose (OR Only)
Neonates ≤ 7 days OR ≤ 2 kg	4 mg/kg/dose	Do not re-dose
Neonates > 7 days AND > 2 kg	4 mg/kg/dose	Do not re-dose
Infants > 1 month, children, adolescents and adults	Urology cases: 5 mg/kg/dose All others: 2.5 mg/kg/dose (max 160 mg/dose)	6 hours*

*Re-dosing in patients with impaired renal function may vary; please contact the OR pharmacist.

METRONIDAZOLE: administer over 30 minutes

Age/Weight	Dosing	Time for Re-dose (OR Only)
Neonates ≤ 7 days OR ≤ 2 kg	7.5 mg/kg/dose	Do not re-dose
Neonates > 7 days AND > 2 kg	7.5 mg/kg/dose	Do not re-dose
Infants > 1 month, Children, adolescents and adults	7.5 mg/kg/dose (maximum 500 mg/dose)	Do not re-dose

PIPERACILLIN/TAZOBACTAM: administer over 30 minutes

Age/Weight	Dosing (piperacillin component)	Time for Re-dose (OR Only)
Neonates ≤ 7 days OR ≤ 2 kg	100 mg/kg/dose	8 hours
Neonates > 7 days AND > 2 kg	100 mg/kg/dose	4 hours
Infants > 1 month, children, adolescents and adults	100 mg/kg/dose (maximum 3,000 mg/dose)	2 hours

CIPROFLOXACIN: administer over 60 minutes

Age/Weight	Dosing	Time for Re-dose (OR Only)
Neonates ≤ 1 month	Not indicated	N/A
Infants > 1 month, children, adolescents and adults	10 mg/kg/dose (maximum 400 mg/dose)	8 hours

CEFOXITIN: administer over 3-5 minutes

Age/Weight	Dosing	Time for Re-dose (OR Only)
Neonates ≤ 7 days OR ≤ 2 kg	40 mg/kg/dose	3 hours
Neonates > 7 days AND > 2 kg	40 mg/kg/dose	2 hours
Infants > 1 month, children, adolescents and adults	40 mg/kg/dose (maximum 2,000 mg/dose)	2 hours

Appropriate antibiotic timing for all antibiotics (except vancomycin and fluoroquinolones) is 0-60 minutes prior to incision. Vancomycin and fluoroquinolones can be administered 0-120 minutes prior to incision.

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Resources are intended for informational purposes only. Resources are current at the date of publication and reviewed on a regular basis to align with best available evidence. It is not intended to establish a protocol for all patients or replace a clinician's judgment. Adherence to this resource is voluntary. Medicine is a dynamic science; as research and clinical experience enhance and inform the practice of medicine, changes in recommendations may be required. Neither the authors nor Children's Hospital and Health System, Inc. warrant the information contained is in every respect accurate or complete, and are not responsible for errors in, omissions from, or results obtained from the use of this information. Readers are encouraged to confirm the information contained in this work with other sources.

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