

## Paediatric Antibiotic Surgical Prophylaxis & Perioperative Guideline

ANTIBIOTIC DOSING IN PAEDIATRICS (For use in children aged >3 months)

CNS:

**ALL NEUROSURGERY:** Cefuroxime IV

**ROUTINE EYE OPERATIONS:** Not Recommended

**ROUTINE EAR. NOSE AND SINUS SURGERY:** Not Routinely Recommended TONSILLECTOMY AND ADENOIDECTOMY: Not Routinely Recommended

GROMMET INSERTION: Ciprofloxacin Eye Drops topically as a ONCE off

**OPEN FRACTURE:** Gentamicin IV + Flucloxacillin IV (+ Metronidazole IV if

grossly contaminated wound)

(Penicillin Allergy: Clindamycin IV + Gentamicin IV)

Ortho:

OPEN SURGERY FOR A CLOSED FRACTURE: Gentamicin IV + Flucloxacillin IV

(Penicillin Allergy: Clindamycin IV + Gentamicin IV)

ORTHOPAEDIC SURGERY WITH IMPLANT: Gentamicin IV + Flucloxacillin IV

(Penicillin Allergy: Clindamycin IV + Gentamicin IV)

ORTHOPAEDIC SURGERY (WITHOUT IMPLANT): Not Recommended

**Plastics** OMFS

**Dental:** 

GI

SOFT TISSUE INJURIES:

Not routinely recommended unless open digit fracture or contaminated

**BURNS:** 

Flucloxacillin IV (may need to be continued post op on individual basis)

(Penicillin Allergy: Clindamycin IV)

**DENTAL EXTRACTION:** 

Not routinely recommended

APPENDICECTOMY:

Gentamicin IV + Metronidazole IV (may need to add Amoxicillin IV if

perforated gangrenous appendix. May need to be continued post op on

individual basis)

(Penicillin Allergy: Clindamycin IV + Gentamicin IV)

**COLORECTAL SURGERY:** 

Gentamicin IV + Metronidazole IV

HYPOSPADIAS: Not routinely recommended (post operatively oral Trimethoprim until catheter removed)

(Penicillin Allergy: Clindamycin IV + Gentamicin IV)

**PEG TUBE INSERTION:** 

Co-amoxiclav IV (Penicillin Allergy: Co-trimoxazole IV)

**CIRCUMCISION:** 

Not routinely recommended

HYDROCELES / HERNIA REPAIR:

GU

Not routinely recommended

CYSTOSCOPY +/- STENT REMOVAL: Gentamicin IV

**UROLOGICAL PROCEDUREINVOLVING BOWEL:** 

Gentamicin IV + Metronidazole IV

(Penicillin Allergy: Clindamycin IV + Gentamicin IV)

STRUCTURAL CARDIAC DEFECTS: Routine prophylaxis no longer recommended for patients having surgery.

For advice regarding appropriate doses of antibiotics please check the current BNF for Children. See Paediatric Gentamicin monograph for more information around dosing and monitoring Standard prophylactic doses of the antibiotics recommended above are as follows: (NB: Doses given are per individual dose)

Amoxicillin (20-30mg/kg, max 500mg) Flucloxacillin (25mg/kg max 1g) Gentamicin (4mg/kg,) see monograph Cefuroxime (50mg/kg, max 1.5g) (3.75-6.25mg/kg, max 1.2g) Metronidazole (30mg/kg max 500mg) Clindamycin (30mg/kg max 1.2g) Co-trimoxazole (18mg/kg max 1.44g) Co amoxiclav

NHS GGC Surgical Prophylaxis guidelines 2021

SIGN 104. Antibiotic Prophylaxis in Surgery. April 2014

Paediatric Pharmacist: bleep 4024

References:

Review: Mar 2028

ANTIMICRORIAL MANAGEMENT GROUP

Approved: Feb 2015. Updated: Mar 2025

ADVICE:

Microbiology: bleep 4039

Antibiotic Pharmacist: bleep 4732

BNF for children Feb 2025

Tayside local guidance