

Fracture Prophylaxis (UMMC)

	Closed	Internal fixation or Open - Grade I and II	Open - Grade III ¹
Primary choice	Cefazolin - 1 dose	Cefazolin - 24 hours	Cefazolin + Gentamicin – 48 hours Gentamicin dose per pharmacy table Add Penicillin - 48 hours (if fecal, farm related type of contamination)
Beta lactam allergy: Unknown or life threatening	Vancomycin - 1 dose	Vancomycin - 24 hours	Vancomycin + Gentamicin – 48 hours Vancomycin and Gentamicin dose per pharmacy table Add metronidazole - 48 hours (if fecal, farm related type of contamination)
MRSA Positive	Cefazolin + vancomycin – 1 dose each Vancomycin dose per pharmacy table	Cefazolin + vancomycin – 24 hours Vancomycin dose per pharmacy table	Vancomycin + Gentamicin – 48 hours Vancomycin and Gent dose per pharmacy table Add Penicillin - 48 hours (if fecal, farm related type of contamination)

**Renal insufficiency²:
Estimated Creatinine
clearance < 50 mL/min**

No Beta lactam allergy:

Cefazolin + Ciprofloxacin

Add Penicillin - **48 hours** (if fecal, farm related type of contamination)

Beta lactam allergy:

Vancomycin + Ciprofloxacin

Vancomycin dose per pharmacy table

Add metronidazole - **48 hours** (if fecal, farm related type of contamination)

- Grade III B/C fractures: After 48 hrs of antibiotics, only peri-operative coverage is required
- Renal insufficiency recommendations are only applicable to grade 3 due to extended duration of antimicrobials required