CPG ALGORITHM: Open Fracture Algorithm

STANDARD: There must be protocols in Level I and II Centers for the following orthopedic emergencies: 1) the type and severity of pelvic and acetabular fractures that will be treated at the institutions as well as those that will be transferred out for care; 2) the timing and sequence for the treatment of long bone fractures in multiply injured patients; and 3) the wash out time for open fractures. These protocols must be included as part of the PIPS process. (CD 9-14)

Open Fracture

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Ortho consult within 30 min. of notification

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Stabilize fracture within 24 hours

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Update Tetanus within 24 hours

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Washout/debridement within 24 hours
Flap closure within 7 days

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Type III?

No → Antibiotic coverage for gram + organisms within 60 minutes

Yes → Antibiotic coverage for gram+ and gram- organisms within 60

↓ (from No branch)

Presence of fecal or potential clostridial contamination?

Yes → Add high dose PCN

No ↓

Continue antibiotics for 24 hours after successful skin closure

↓ (from Yes branch)

Presence of fecal or potential clostridial contamination?

Yes → Add high dose PCN

No ↓

Successful soft tissue coverage of the wound?

Yes → **Continue antibiotics for 24 hours**

No ↓

Continue antibiotics for 72 hours subsequent to injury