

**Open Fractures**  
**OTA 2018**  
**Michael J. Gardner, MD**  
**Stanford University School of Medicine**

**Objectives**

Initial Management:

- Physical exam
- Initial wound care
- Antibiotics

**Physical exam**

Wound management  
Antiseptics (eg, Betadine)?

**Fractures & dislocations**

- Reduce fractures and fracture-dislocations
- Splint
- Reassess NV status

**Antibiotics**

Timing

Regimen – Depends on open fracture type

**Debridement**

Timing

- Bacterial adhesion and colonization
  - Time dependent
- Considerations:
  - Difficult to assess wound outside the OR
  - Urgency depends on
    - Contamination
    - Periosteal stripping
    - OR and patient availability
    - Resuscitation

**Classification**

- Attempt to quantify energy imparted-- *prognostic*
- Contamination
- Deep soft tissue injury/ periosteal stripping
- Fracture pattern
- Wound size