

# HIGH BILATERAL AMPUTATIONS AND DISMOUNTED COMPLEX BLAST INJURY

Survival depends on

**Hemorrhage Control • Massive Transfusion • Resuscitation**

## STOP THE BLEED

- Open thoracic/abdominal aortic occlusion vs REBOA
- Vascular control distal to int/ext Iliac arteries if possible
- Extremity tourniquets prn during volume resuscitation
- Shunt/repair Iliac vein
- Shunt arterial injuries

## GU INJURIES

- Hemorrhage control
- Debridement/irrigation
- Bladder repair/ Urinary diversion on subsequent operations.
- Preserve tissue for reconstruction

## INITIAL EVALUATION AND TREATMENT

- T** – Tourniquets (TQ) on all injured extremities for hemorrhage control, pelvic binder for unstable pelvis – assess TQ effectiveness frequently
- A** – Access – Reliable Intravenous access for resuscitation – large bore (16 Ga or larger) IVs or supradiaphragmatic central venous access (8.5Fr cordis)
- R** – Resuscitate with blood - massive transfusion protocol – 8 units whole blood per above the knee amputation
- O** – Operative intervention
- T** – Temporize at index operation, damage control surgery only, shunt injured vessels to restore flow, temporary abdominal closure

*Take back to OR planning – second debridement within 24 hours*

## KEEP IT CLEAN

- Debride devitalized tissue, remove gross contamination
- Proctoscopy/Flex Sig to rule out rectal injury. If clear injury, fecal diversion on next operations
- Temp abdominal closure
- Avoid long-term empiric broad spectrum antibiotics

## TRIAGE

- requires assessment of:
- Multidisciplinary surgical teams
  - Equipment
  - Time
  - Blood (re)supply capabilities
  - Walking Blood Bank feasibility

## POST AMPUTATION GUIDANCE

- Most distal level possible
- No guillotine/open circular amputations
- Debride non-viable soft tissue and bone
- Repeat within 24hrs. Then q 24-48hrs
- Coordinate debridement timing with evacuation schedule
- Prone positioning prn after pelvic stabilization
- Prophylactic fasciotomies due to warm time ischemia
- DVT/PE prophylaxis as soon as clinically feasible



This information is pulled from the evidence-based JTS High Bilateral Amputations and Dismounted Complex Blast Injury Clinical Practice Guideline (CPG). JTS CPGs can be found at the [JTS CPG website](#) or the [JTS Deployed Medicine site](#).

- ✓ Pelvis stabilized in all LE amputations
- ✓ Temporary abdominal closure at first operation
- ✓ DRE/Proctoscopy documented with perineal/perirectal penetrating wounds
- ✓ GU injuries: Conservation of tissue
- ✓ Second debridement within 24 hrs of initial debridement
- ✓ VTE prophylaxis within 24 hrs or documented contraindication