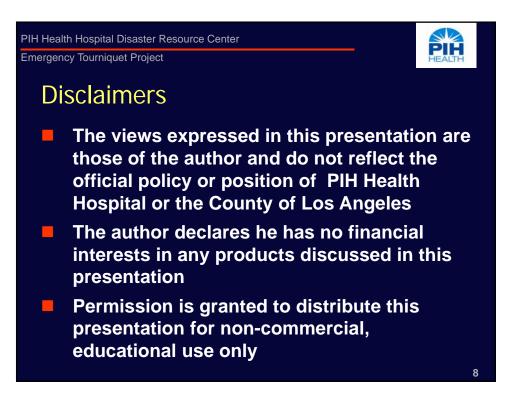






Course Objectives

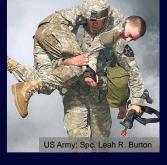
- **1.** Identify the treatment priorities for a trauma patient: MARCH
- 2. Be able to apply a pressure dressing
- **3.** Be able to apply a CAT tourniquet
- 4. Understand how to improvise a windlass tourniquet

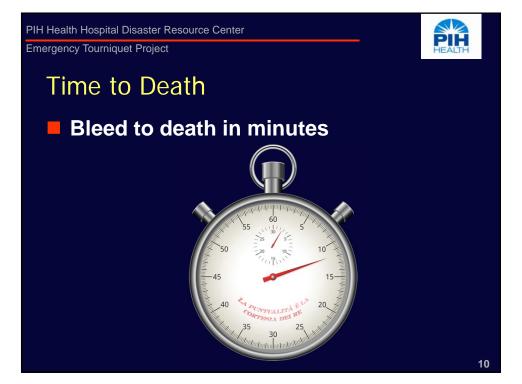


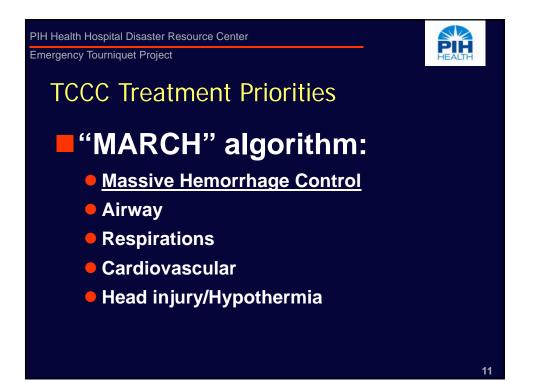


Lessons From the Battlefield

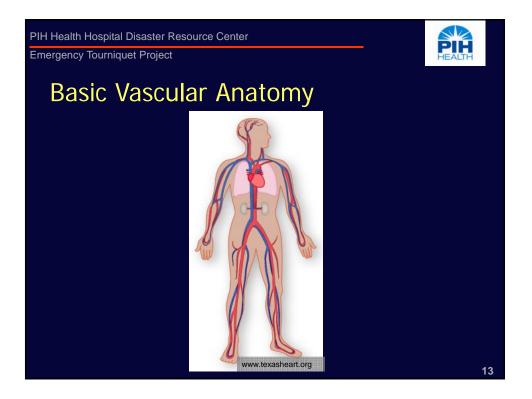
- TCCC: Tactical Combat Casualty Care
 Three most common preventable causes
 of death:
- **1.** Extremity hemorrhage
- **2.** Tension pneumothorax
- **3.** Airway obstruction



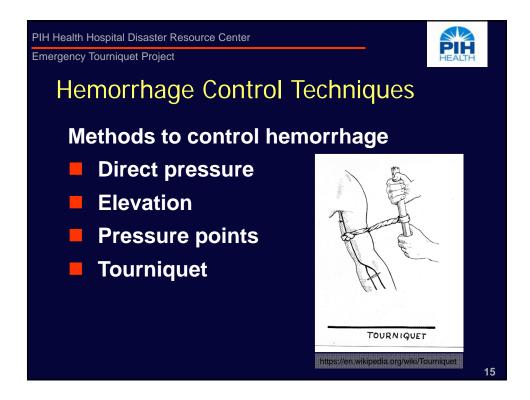


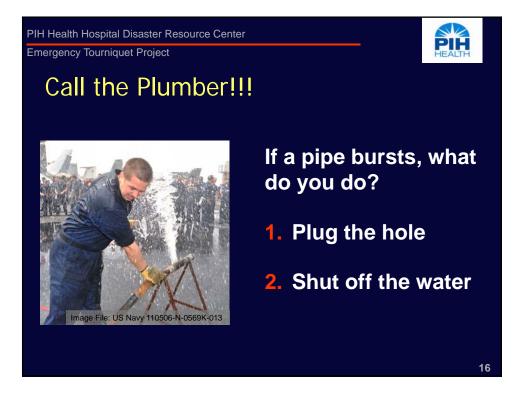
















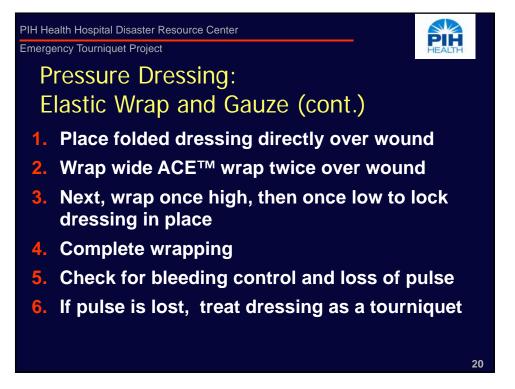
PIH Health Hospital Disaster Resource Center

Emergency Tourniquet Project



Pressure Dressing: Elastic Wrap and Gauze



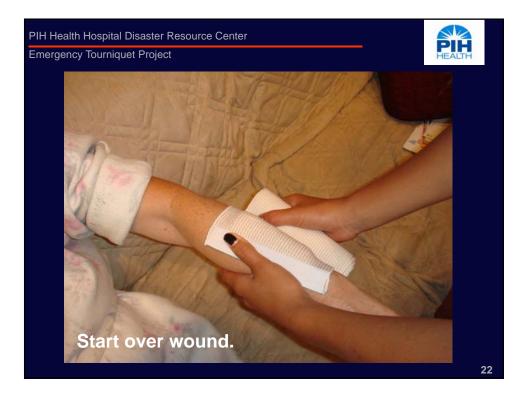


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Pressure Dressing: Gauze and Elastic Bandage









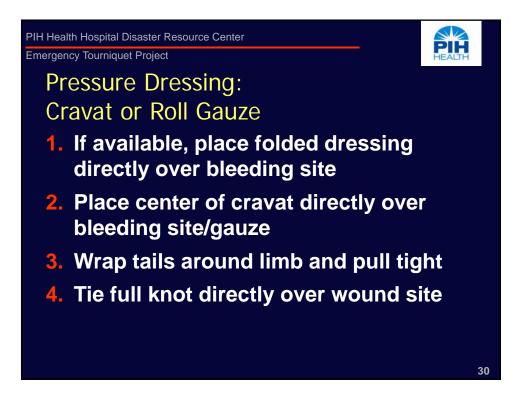












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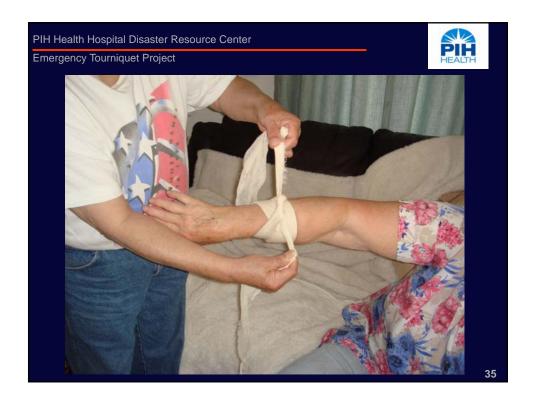
Pressure Dressing: Cravat or Roll Gauze (cont.)

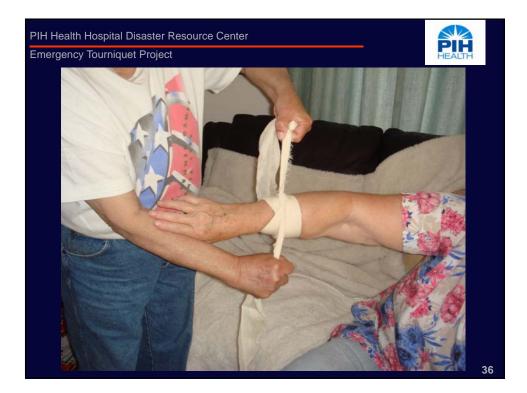






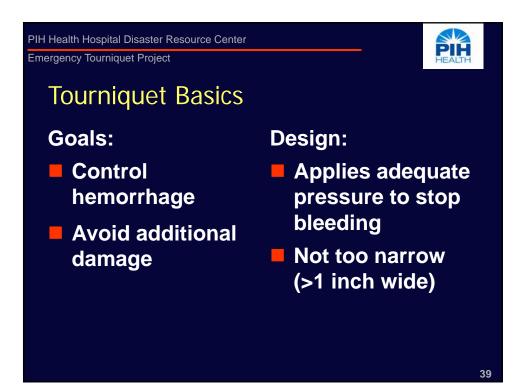












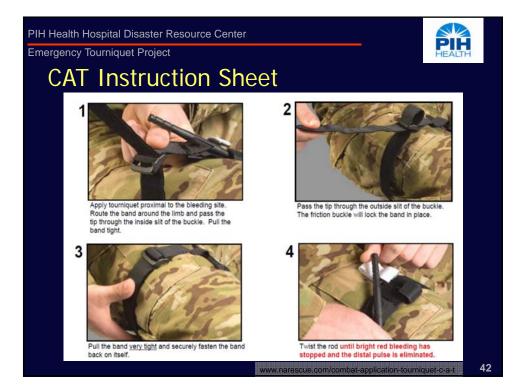






Combat Application Tourniquet (CAT)





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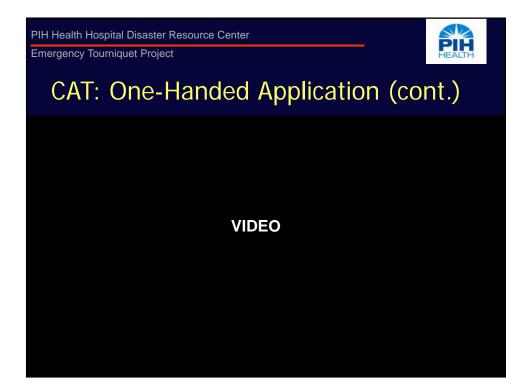


CAT: One-Handed Application

- 1. Insert limb thru loop of band. Apply proximal to bleeding site
- 2. Pull band very <u>TIGHT</u>
- 3. Fasten band around limb up to rod clip
- 4. Twist rod until bright red blood stops and distal pulse eliminated

- **5.** Lock rod into clip
- 5.1. Check for bleeding and distal pulse
- 5.2. If bleeding, tighten or place 2nd tourniquet proximal, next to first
- 6. Adhere band over rod, in clip and around limb
- 7. Secure rod and band with strap
- 7.1. Mark time and "T"

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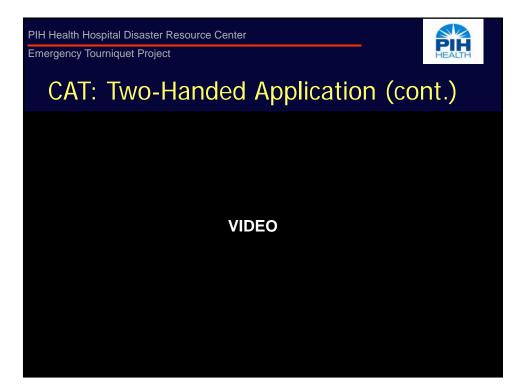


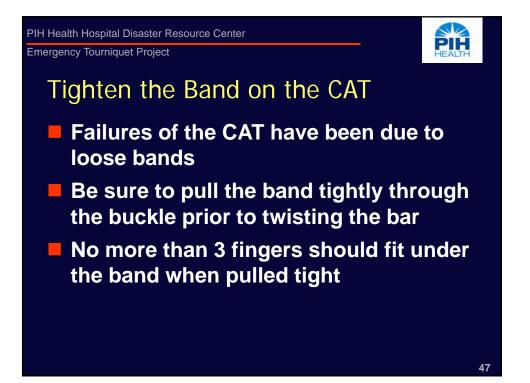
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CAT: Two-Handed Application

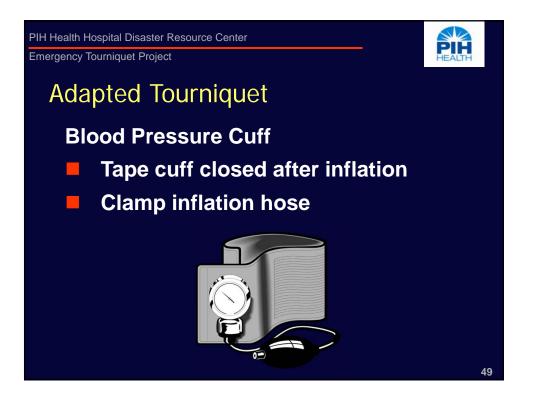
- 1. Route band around limb and pass red tip thru inside slit of buckle. Apply proximal to bleeding site
- 2. Pass red tip thru outside slit of buckle
- 3. Pull band very <u>TIGHT</u>
- 3.1. Fasten band back on itself
- Twist rod until bright red blood stops and distal pulse eliminated

- **5.** Lock rod into clip
- 5.1. Check for bleeding and distal pulse
- 5.2. If bleeding, tighten or place 2nd tourniquet proximal, next to first
- 6. Secure rod with strap
- 6.1. Mark time and "T"











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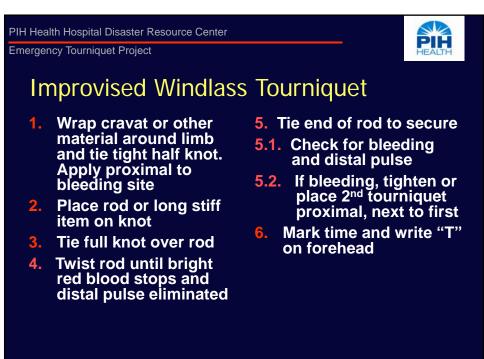


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Medic Saves Shark Attack Victim With Boogie Board String



Vacationing medic Marie Hildreth used a boogie board string as a tourniquet for the 12-year-old's arm, and a string from a beach tent to stop the bleeding on her leg



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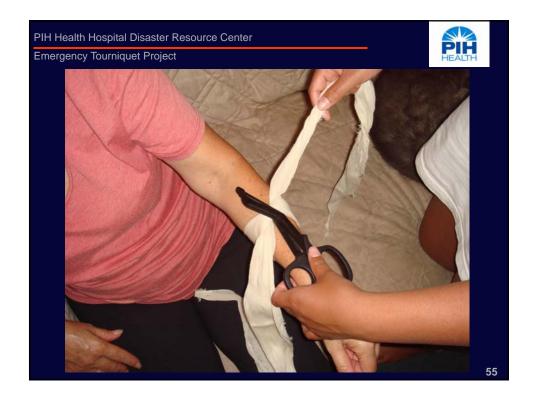
Emergency Tourniquet Project



Improvised Windlass Tourniquet (cont.)

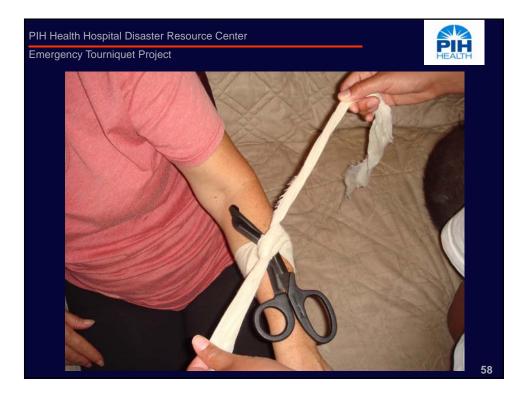


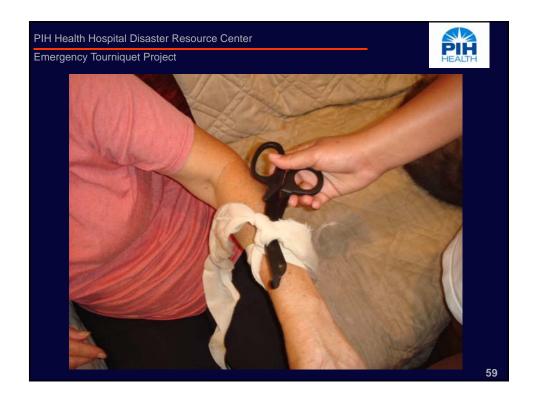




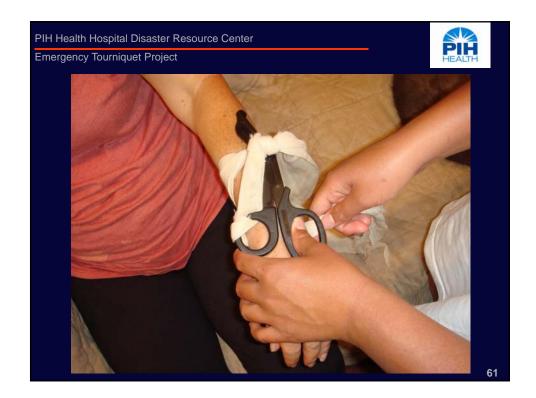




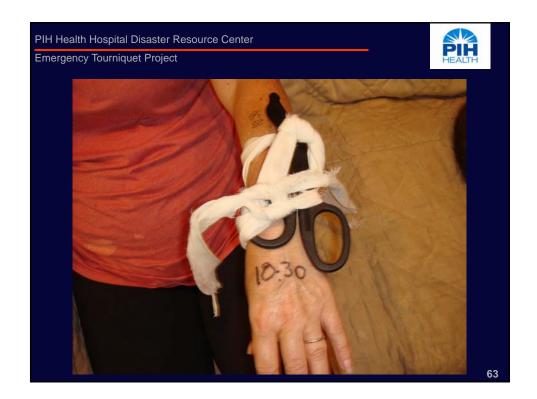


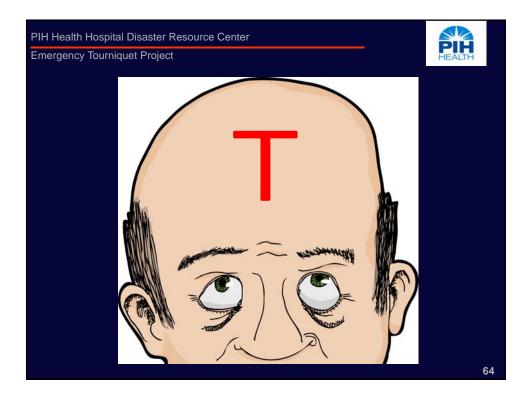


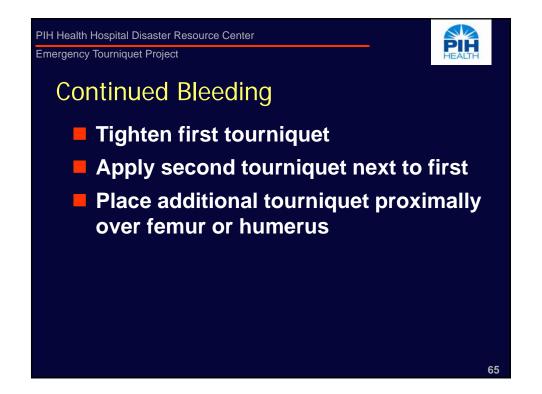


















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Tourniquets Can Be Used Safely!

From the *Journal of Trauma*, Kragh, et.al. studied 428 tourniquets on 232 patients:

- No limbs lost due to tourniquet
- No amputations due solely to tourniquet
- Tourniquet duration was NOT associated with increased morbidity

"The benefits (of using tourniquets) far outweighed the risks in our experience."







