# Disaster Triage START/JUMPSTART

Finger Lakes Regional Resource Center



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# **Objectives:**

- Understand the differences between dayto-day triage and triage during an MCI
- Increase the UHS staff awareness of disaster triage
- Create comfort with the START/JumpSTART methodology

# What is the Goal of MCI Management?

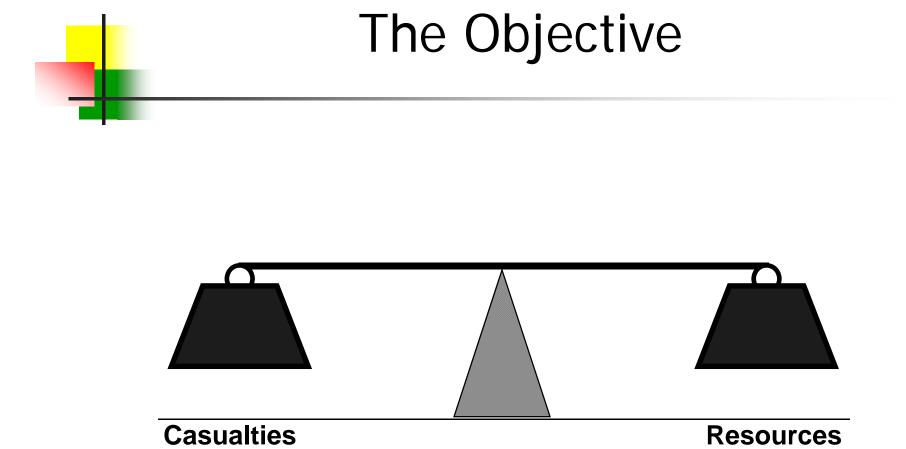
#### GOAL:

TO SAVE THE LARGEST NUMBER OF SURVIVORS FROM A MULTIPLE CASUALTY INCIDENT

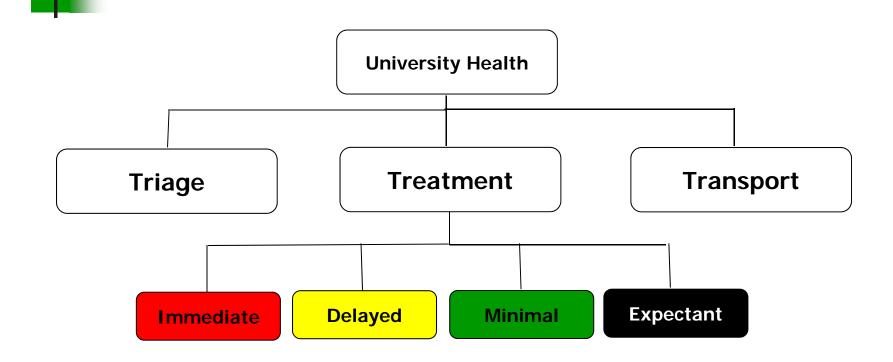
# The Problem Casualties Resources

# Considerations During an MCI Response

- Supply vs. Demand
- Resource Allocation
- Coordination
- Medical Management
- Ethics



# Incident Command System





# START/JUMPSTART

# Types of Triage

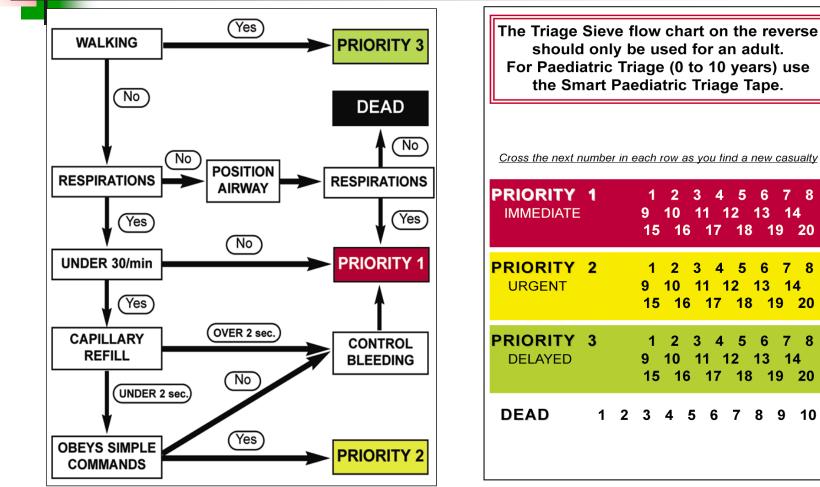
#### Primary

 On scene prior to movement or at hospital (self transports)

#### Secondary

 Incident dependent, probably prior to or during transport or upon arrival to hospital

# Triage Protocol (START)



The Triage Sieve flow chart on the reverse should only be used for an adult. For Paediatric Triage (0 to 10 years) use the Smart Paediatric Triage Tape.

6

7 8

# Triage Coding

Priority Treatment	
Immediate	1
Urgent	2
Delayed	3
Dead	0

Color
RED
Yellow
Green
Black







# The first attempt at balancing resources and casualties/injured

# **PRIORITY 3**

- Not injured or "Walking wounded"
- Have motor, respiratory, mental function

# DELAYED

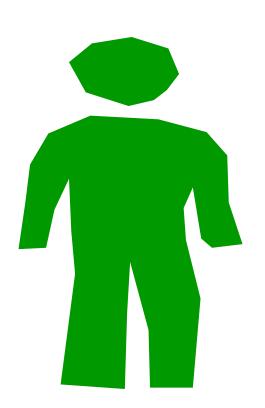
### Example

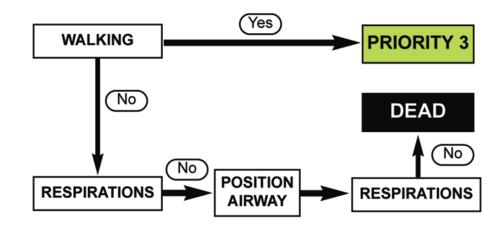
Patient walks over to you and has an obvious broken arm

Respirations are 22

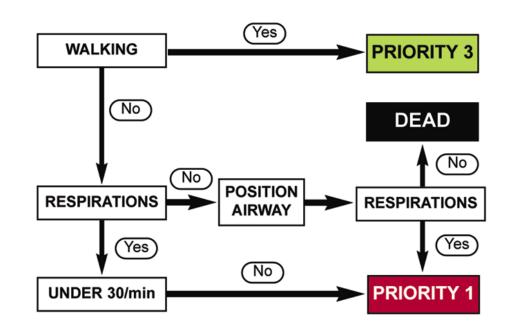
Pulse is 124 (Radial)

He is awake, alert, and crying

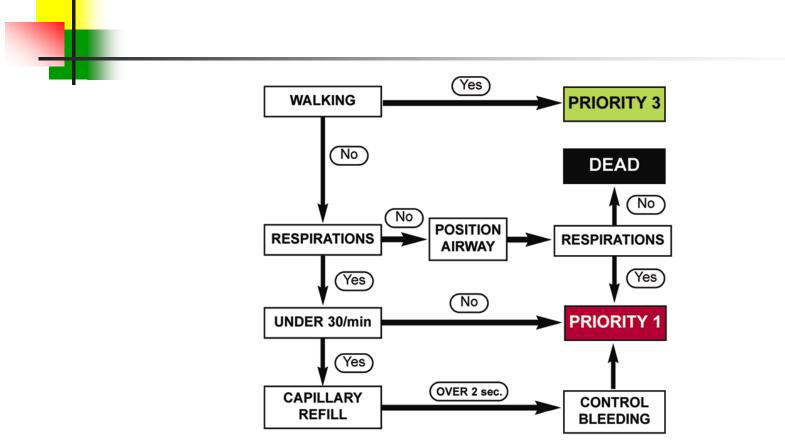




Determining whether there is an airway and breathing



If breathing, at what rate & is it good enough?

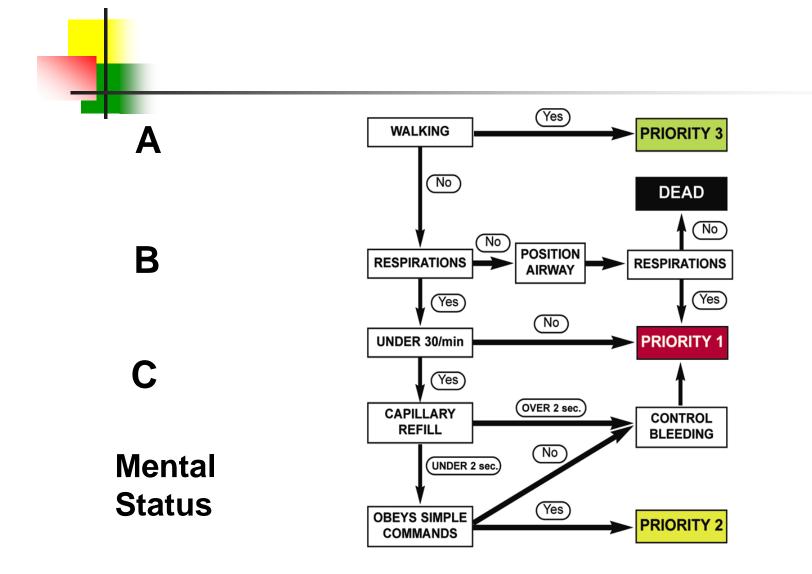


They have an airway, are breathing.

Are they circulating blood sufficiently?

# Circulatory Check...

If you are unable to obtain a capillary refill, check the radial pulse. If absent then control any bleeding and prioritize the patient **PRIORITY 1**.



# **PRIORITY 1**

- Opening airway, starts to breathe
- Breathing is greater than 30 or less than 10
- Delayed capillary refill time (> 2 seconds)
- Absent radial pulses
- Bleeding that needs to be controlled
- Does not follow instructions



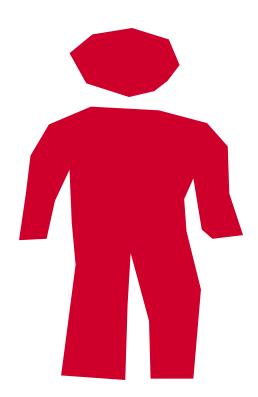
# Example

Patient has an open head Wound, bleeding controlled

**Respirations are 16** 

Pulse is 88 (radial)

He is unconscious



# PRIORITY 2

- Did not move out, when asked
- Airway OK
- Breathing within 11 and 29
- Capillary refill less than 2 seconds or radial pulses present
- Can follow instructions to move unaffected limb



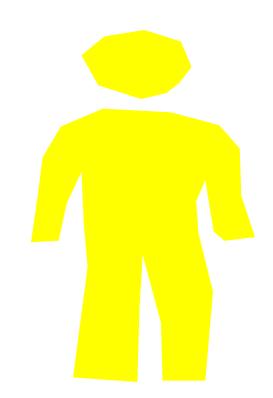
## Example

Patient states he can't move or feel his legs

**Respirations are 26** 

Pulse is 110 (radial)

He is awake and oriented



# EXPECTANT/DEAD

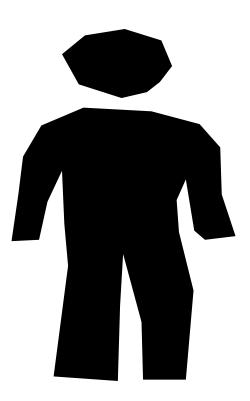
- Still require resources
- Focus of care is comfort
- Psychologically most challenging for healthcare providers

# Examples

Patient not breathing

Absent radial pulse

She is unresponsive

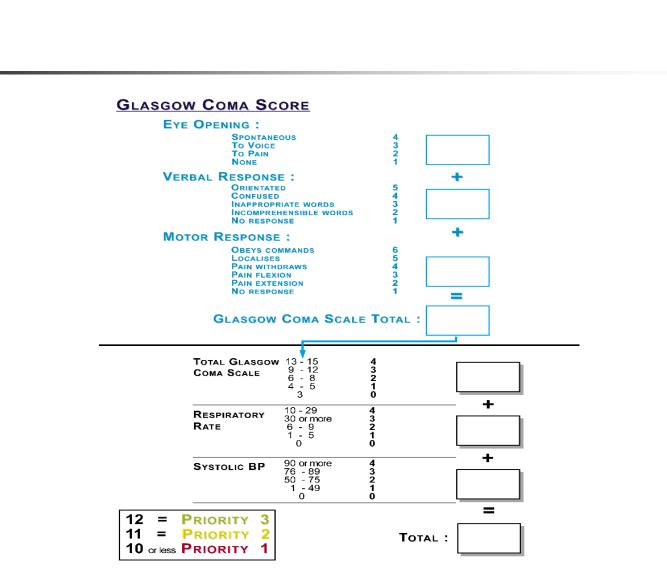


# Secondary Triage

- Generally used when there is an extended duration event
- After initial color coding triage
- Healthcare professionals who respond to the scene or PH/Hospital response teams may be utilized to further determine who gets transported from scene first



#### Secondary Triage



#### Pediatric Triage



•Children are involved in mass casualty incidents

•The over prioritizing of children will take valuable resources away from more seriously injured adults

•Triage systems based on adult physiology will not provide accurate triage

# The SMART Tape <sup>™</sup>



# SMART Tag Triage System



# SMART Triage Pack Contents

- Dynamic Tags (20)
- Dead Tags (10)
- Pencils
- Cylume Sticks
- Patient Count Card/Protocol
- SMART Pediatric Tape

# Scenarios

### Scenario #1

An improvised explosive device is detonated otuside of Fauver Stadium during a football game. At least 50 people are confirmed injured. The University's Medical Response Team is on scene, but students are bringing injured to you as well.

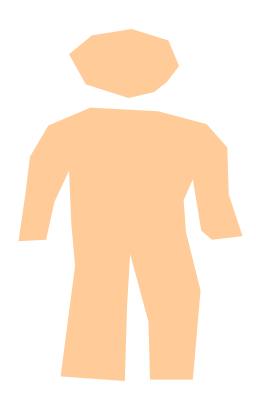
Triage and "Tag" the following patients.



Apneic

Pulse-less

Missing LUE

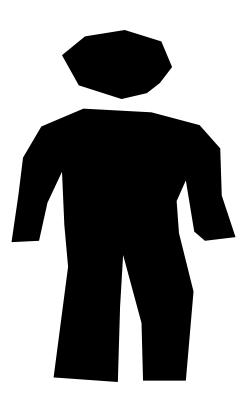




Apneic

Pulse-less

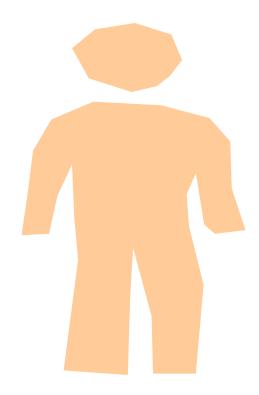
Missing LUE



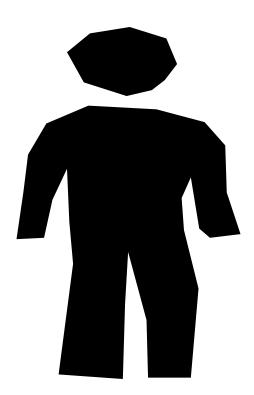
Eviscerated bowel Multiple penetrating wounds to chest & head

Brain matter exposed

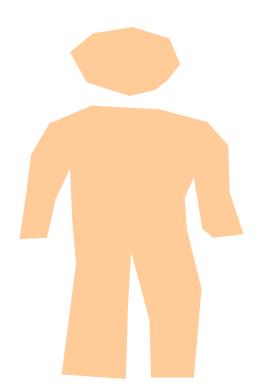
Unresponsive to tactile stimuli



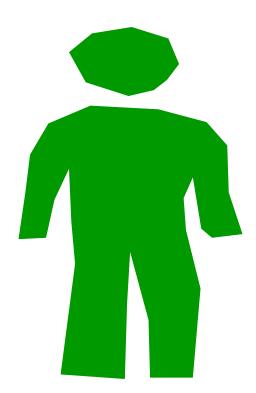
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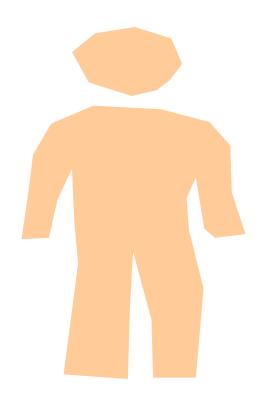
Abd. tenderness and minor penetrating trauma Ambulating A & O x 3 RR 24 Strong radial pulse



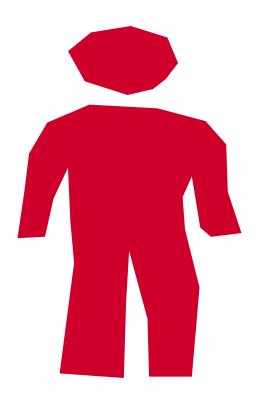
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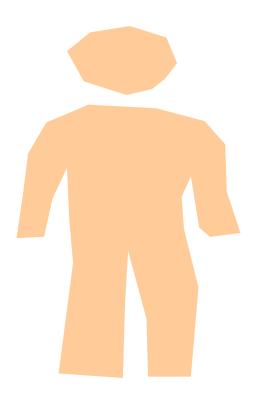
Multiple penetrating injuries, blood in ears Responds only to pain Airway clear RR 20 Strong radial pulse



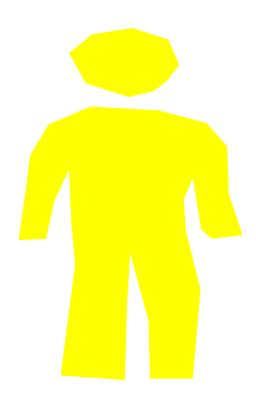
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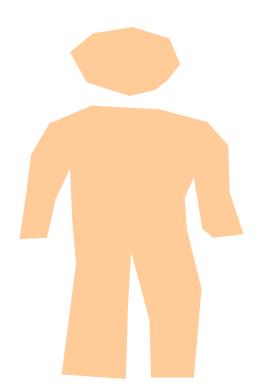
Extremity fractures, blood in ears A & O x 3 RR 26 Strong radial pulse



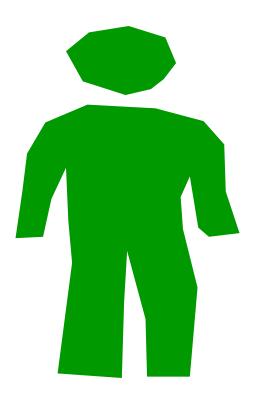
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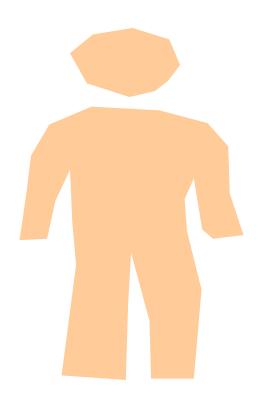
Child, screaming Minor lacs, blood in ears RR 30 Moving all extremities



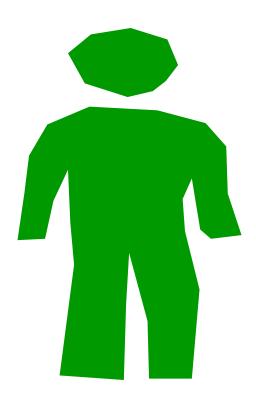
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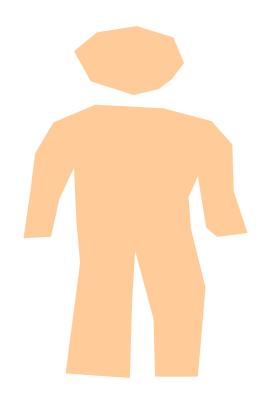
Amputated fingers, head injury A & O x 3 Dizzy RR 24 Smells like beer



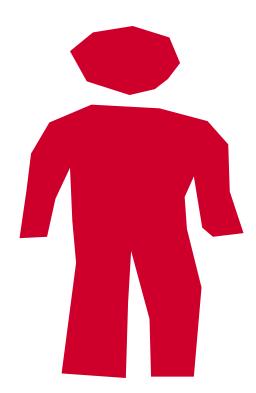
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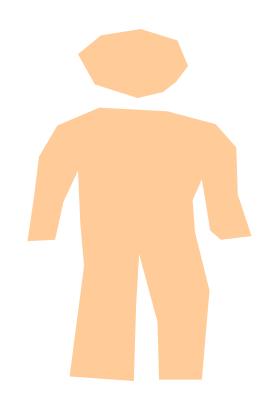
Chest pain, SOB No trauma noted RR 34 Shallow Weak radial pulse



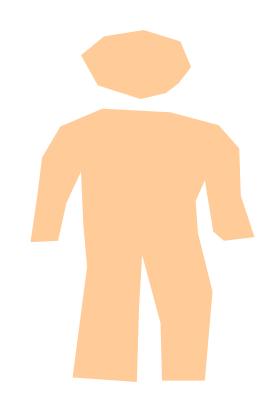
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Blood in nose, mouth and ears Not breathing

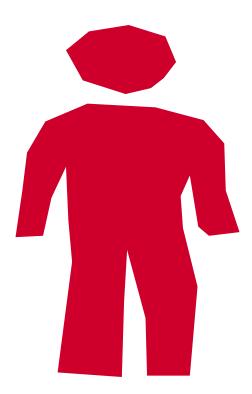


Blood in nose, mouth and ears Not breathing

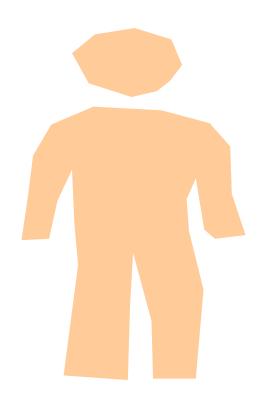


What would you do?

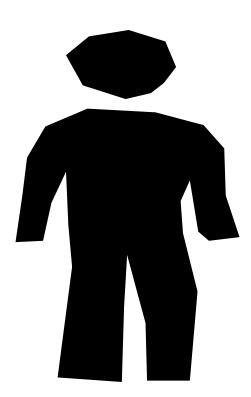
Blood in nose, mouth and ears Not breathing RR 10 with manual opening



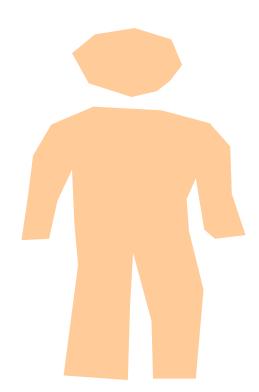
Some penetrating trauma Unresponsive Apneic No radial pulse Carotid 130/min



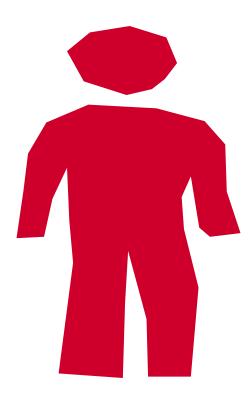
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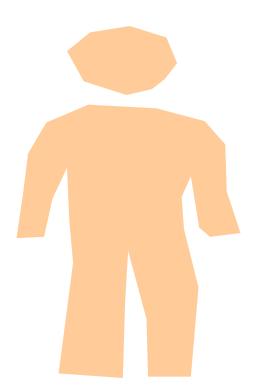
Arterial bleed from leg Responsive to pain RR 34 No radial pulse Carotid 130/min



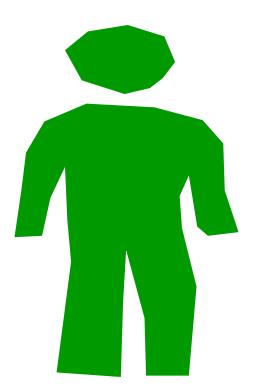
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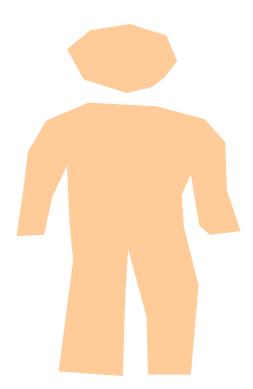
Minor lacs Crying Ambulatory RR 24



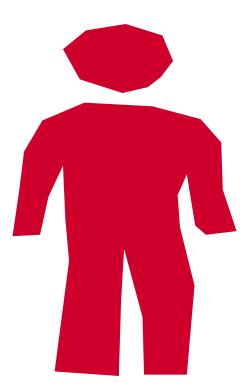
Minor lacs Crying Ambulatory RR 24



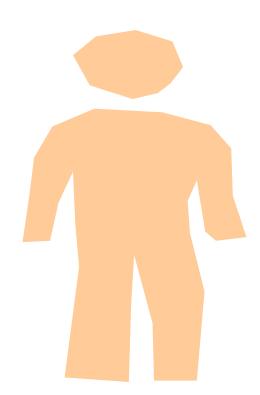
Deviate trachea RR 40 Weak radial pulse +JVD Cyanosis



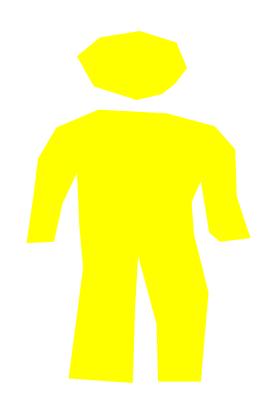
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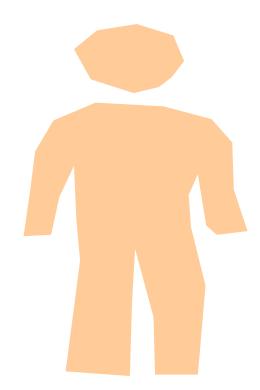
Open fracture of RUE Non-ambulatory A & O x 3 RR 26 Strong radial pulse



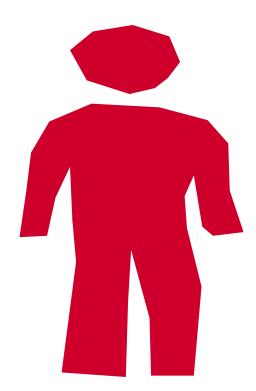
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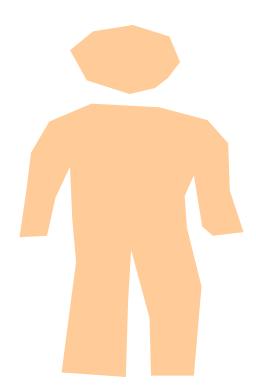
CP, SOB Slurred speech R sided weakness A & O x 1 RR 24 Strong radial pulse



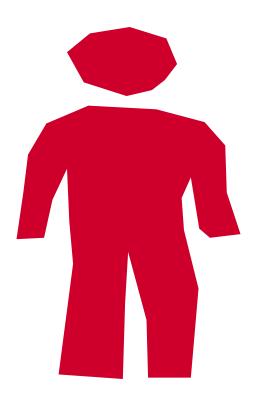
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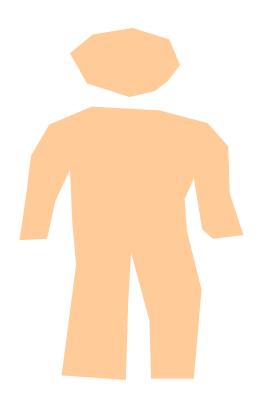
Avulsion RUE Arterial bleed A & O x 2 RR 30 "I'm thirsty"



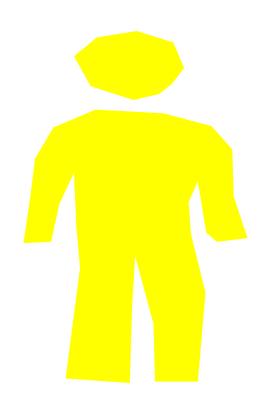
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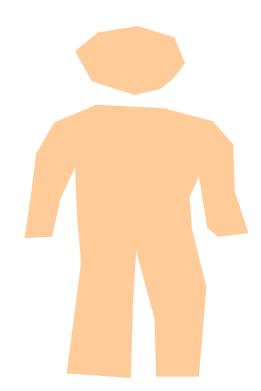
Open fractures BLE Blood in ears A & O x 3 RR 28 Strong radial pulse



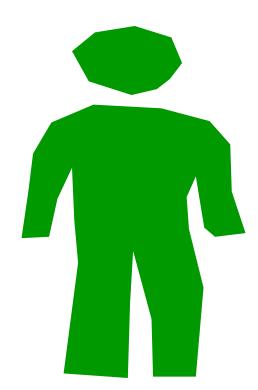
Open fractures BLE Blood in ears A & O x 3 RR 28 Strong radial pulse



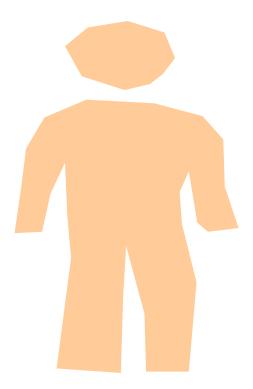
Walking Hysterical, screaming Blood in ears A & O x 3 RR 36 Strong radial pulse



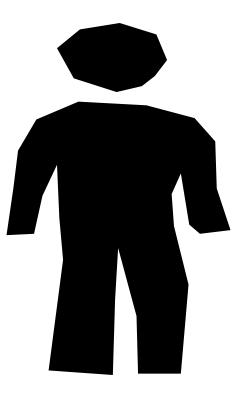
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Child Cyanotic from nipple line up Apneic



Child Cyanotic from nipple line up Apneic



### What is the goal of **Disaster Triage** training?

- Increase familiarity/proficiency of the START and Jump START triage methodologies
- Increase familiarity with the SMART Tag Triage System
- Train with a standardized methodology and system

# Questions???

## Thank You!

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