

Disaster Triage START/JUMPSTART

Finger Lakes Regional Training Center

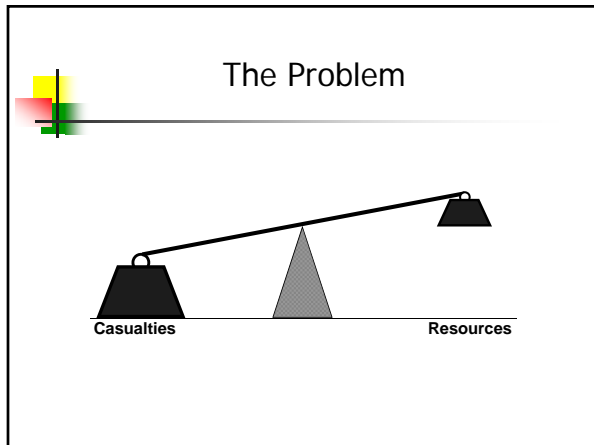



Objectives:

- Define a Mass Casualty Incident and the unique challenges of an MCI
- Understand the differences between day-to-day triage and triage during an MCI
- Increase the region's healthcare providers' awareness of disaster triage

What is the Goal of MCI Management?

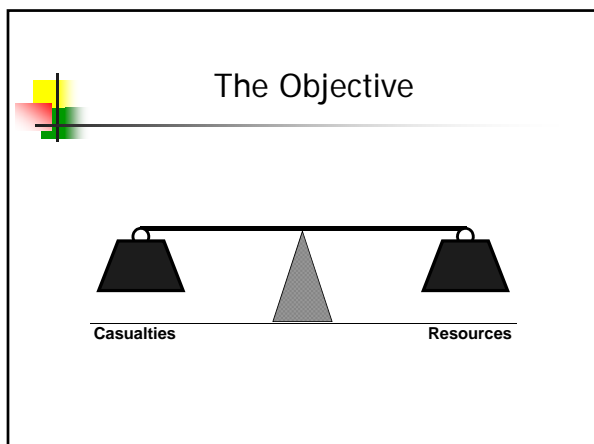







Considerations During an MCI Response

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




What Could Be an MCI For You?

- Transportation Accident
- Fire
- Hospital Overloading
- Hospital Evacuation





February 2008: 390 Pile Up



January 2005: 390 Bus Accident

What Could Be an MCI For You?

- Sporting Event
- Hazmat Incident
- Loss of Power
- Severe Weather



Watkins Glen Speedway

Managing Mass Casualty Incidents

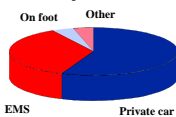
- Would any of those situations lead to shortage of personnel & equipment resources?
- Would decisions and changes need to be made in how you do business?
 - Altered Standards of Care

Hospital Considerations

- Transition from the EMS patient to hospital patient
- Dealing with self presenting patients

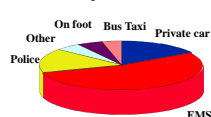
Transportation Distribution

Patient transport - Oklahoma Bombing



Injury prevention database, OK Dept of Health

Patient Transport - 29 US Disasters



Quarantelli, Delivery of Emergency Services in Disasters, Assumptions and Realities

BALI NIGHT CLUB BOMBING

"As bad as the scene was 20 minutes after the blast, it only got worse. Patients who could self-evacuate generally had relatively minor injuries. They arrived on foot, by taxi and by motorcycle, and they were treated as they came in".



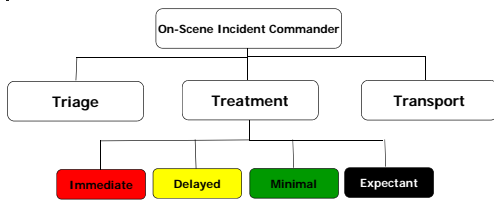
October 12, 2002

"But then the ambulances started to arrive with the most serious patients—the burn victims".

"By then, though, the operating rooms were completely full. They had to wait".

Dr. Tjakra Wibawa
Sanglah Trauma Center

Incident Command System



Disaster Triage

START/JUMPSTART

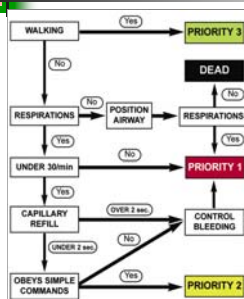


Types of Triage

- **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.

Circle the next number in each row as you find a new casualty

PRIORITY 1 IMMEDIATE	1	2	3	4	5	6	7	8
	9	10	11	12	13	14	15	16
	17	18	19	20				
PRIORITY 2 URGENT	1	2	3	4	5	6	7	8
	9	10	11	12	13	14	15	16
	17	18	19	20				
PRIORITY 3 DELAYED	1	2	3	4	5	6	7	8
	9	10	11	12	13	14	15	16
	17	18	19	20				
DEAD	1	2	3	4	5	6	7	8
	9	10						



Triage Coding

Priority	Treatment	Color
Immediate	1	RED
Urgent	2	Yellow
Delayed	3	Green
Dead	0	Black



Primary Triage



The Scene



Primary Triage



The first attempt at balancing resources and casualties/injured

PRIORITY 3

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

DELAYED



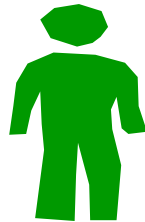
Example

Patient walks over to you and has an obvious broken arm

Respirations are 22

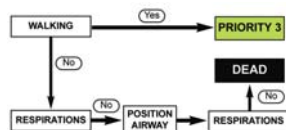
Pulse is 124 (Radial)

He is awake, alert, and crying





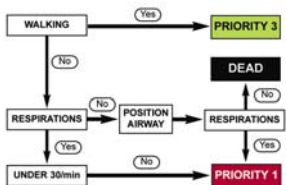
Primary Triage



Determining whether there is an airway and breathing

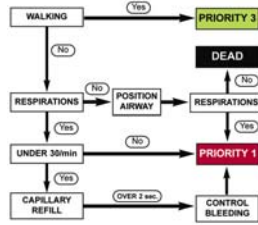


Primary Triage



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

Primary Triage



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**.

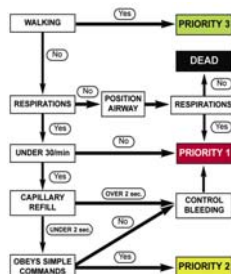
Primary Triage


A

B

C

Mental Status






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

Immediate



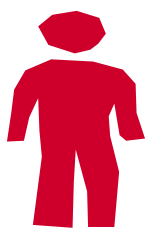
Example


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

Urgent



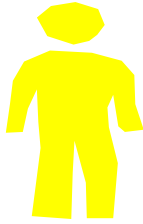
Example


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

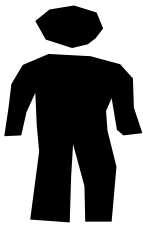



Examples

Patient gurgles but can't maintain an open airway and Is not breathing

Weak Carotid Pulse


She is unresponsive






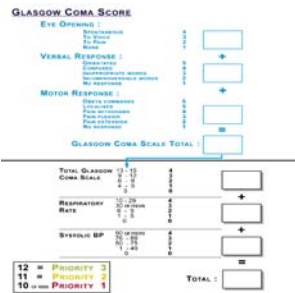
Secondary Triage

- 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



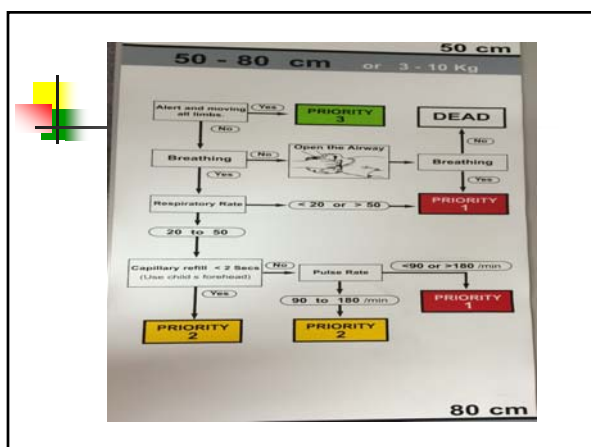


Pediatric Triage



- 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









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 at a large outdoor sporting event. At least 50 people are confirmed injured. EMS is on scene, but patients begin to arrive at your hospital before EMS.

Triage and "Tag" the following patients.

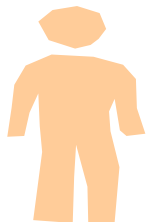



Patient #1

Apneic

Pulse-less

Missing LUE





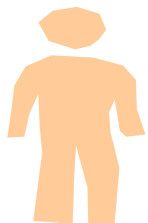
Patient #2


RR 4

Absent Radial pulse

Brain matter exposed

Unresponsive to tactile stimuli





Patient #3

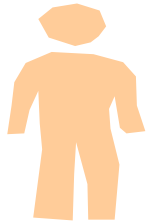
Abd. Tenderness and minor penetrating trauma


Ambulating

A & O x 3

RR 24

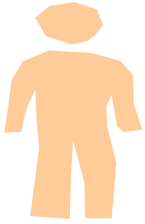
Strong radial pulse






Patient #4

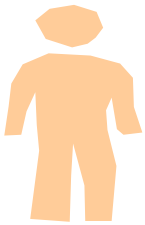
Multiple penetrating injuries, blood in ears
RR 20
Airway clear
Strong Radial pulse
Responds only to pain






Patient #5

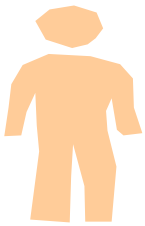
Extremity fractures, blood in ears
Unable to walk
A & O x 3
RR 26
Strong radial pulse





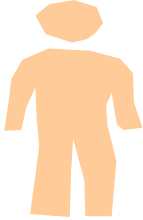
Patient #6

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



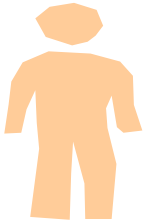
Patient #7

Amputated fingers
Walking
A & O x 3
Dizzy
RR 24
Smells like beer



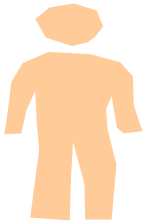
Patient #8

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



Patient #9

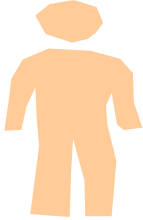
Blood in nose,
mouth and ears
Not breathing



Patient #9

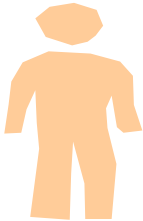
Blood in nose,
mouth and ears
Not breathing

What would you do?



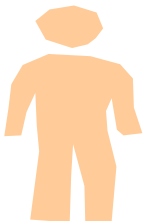
Patient #10


Some penetrating
trauma
Unresponsive
Apneic
No radial pulse



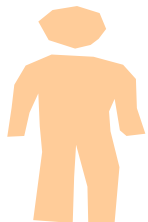
Patient #11


Arterial bleed from
leg
RR 34
No radial pulse
Responsive to pain



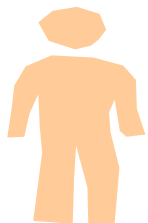
**Patient #12**


Ambulatory
Minor lacs
Crying
RR 24



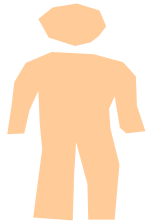
**Patient #13**


Not walking
Deviate trachea
RR 40
Weak radial pulse
+JVD
Cyanosis



**Patient #14**

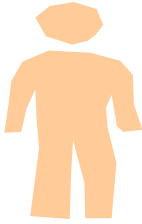
Open fracture of
RUE
Non-ambulatory
RR 26
Strong radial pulse
A & O x 3






Patient #15

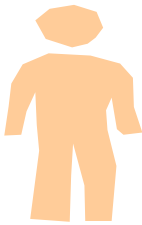
Lying on the ground
RR 36
Coughing
Strong radial pulse
A & O x 2
100% TBS burns
(partial and full)






Patient #16

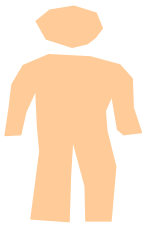
Unable to stand
RR 24
Strong radial pulse
A & O x 1
Slurred speech
R sided weakness






Patient #17

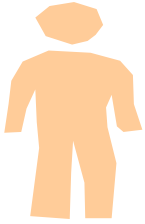
Lying on the ground
RR 30
Avulsion RUE
Arterial bleed
A & O x 2
"I'm thirsty"






Patient #18

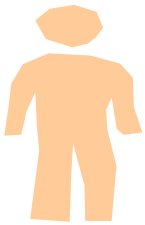
Open fractures BLE
RR 28
Strong radial pulse
A & O x 3
Blood in ears






Patient #19

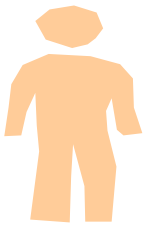
Standing, hysterical
& screaming
RR 36
Strong radial pulse
A & O x 3
Blood in ears





Patient #20

Child
Cyanotic from nipple
line up
Apneic
No brachial pulse



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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