

Disaster Triage START/JUMPSTART

Finger Lakes Regional Training Center



INSTRUCTOR INTRODUCTION

Christopher Tarantino, MEP CMCP

- CEO – Epicenter Media & Training
- Digital Communications Specialist/Reservist – FEMA
- HazMat Technician & Rescue Specialist – Monroe County Fire Bureau
- Firefighter/EMT – Chili Fire Department
- Instructor – FEMA, National Disaster Preparedness Training Center, National Disaster Life Support Foundation, Finger Lakes RTC, others
- +10 years in emergency response/management
- Experience with major disaster response, training/exercises, and at local, county, state and federal levels
- Has taught healthcare, first responders and other public safety professionals in more than 30 different states in the U.S.

AGENDA

- Objectives
- Presentation
- Scenarios
- Additional Resources
- Evaluation/Certificate

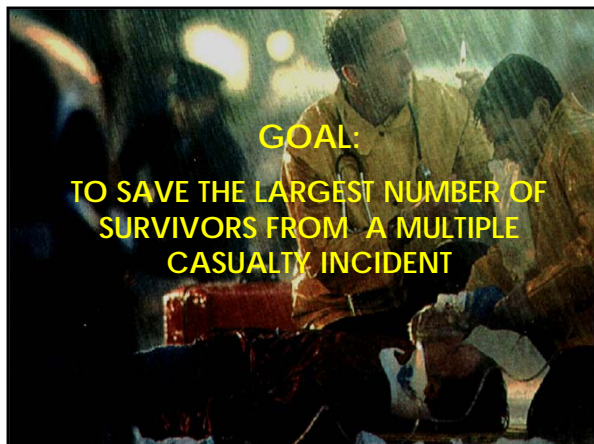


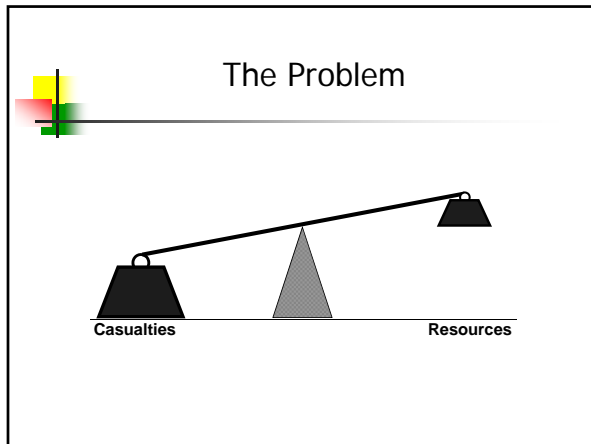
Objectives:

- 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

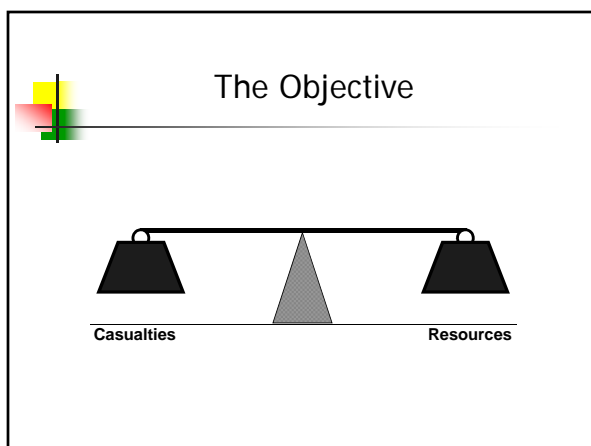


What is the Goal of MCI Management?





- ### 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



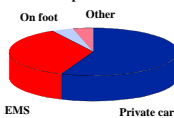
Hospital Considerations

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



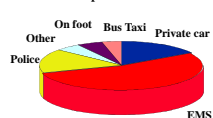
Transportation Distribution

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".

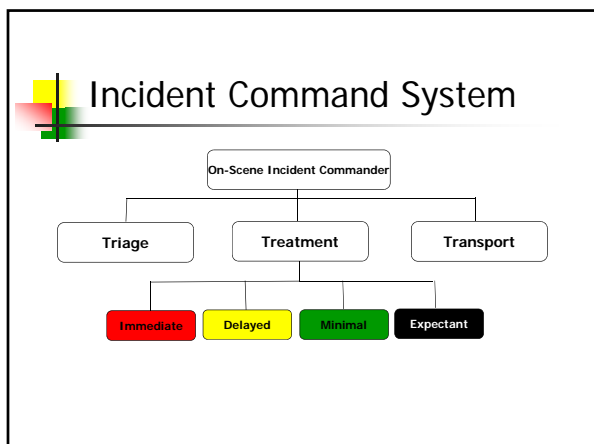
"But then the ambulances started to arrive with the most serious patients—the burn victims".



October 12, 2002

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

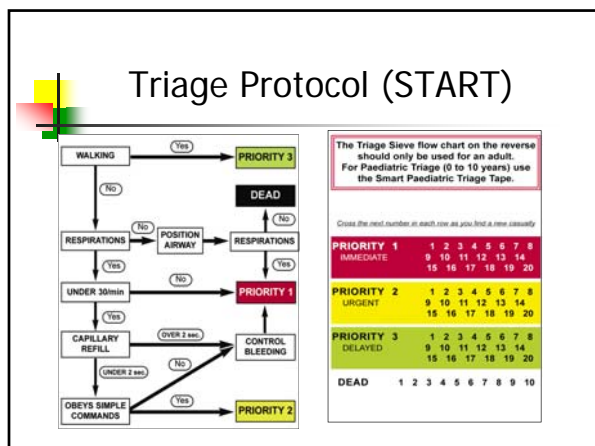
Dr. Tjakra Wibawa
Sanglah Trauma Center



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 Coding

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

Primary Triage




Primary Triage

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graph LR
    A[WALKING] -- Yes --> B[PRIORITY 3]
  
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The first attempt at balancing resources and casualties/injured



PRIORITY 3

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

DELAYED



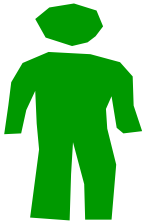
Example

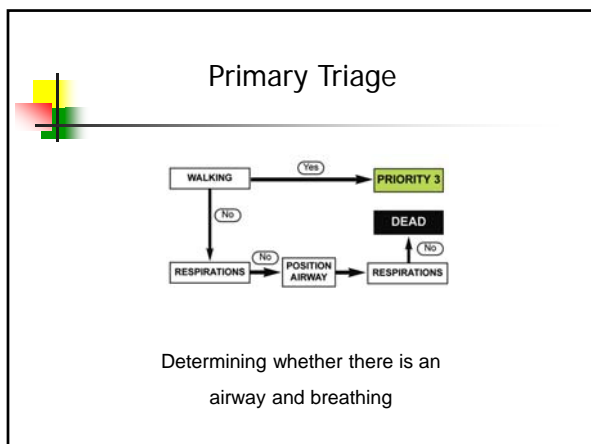
Patient walks over to you and has an obvious broken arm

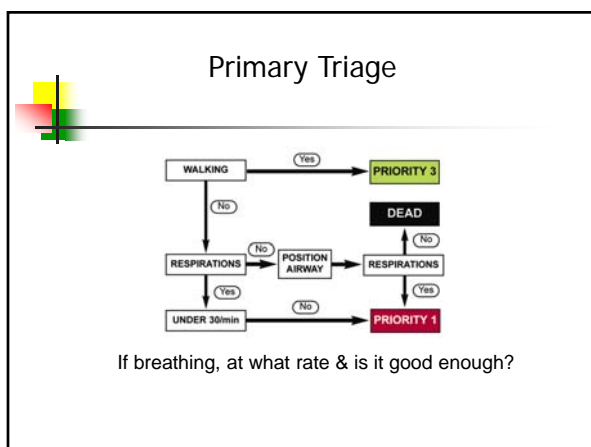
Respirations are 22

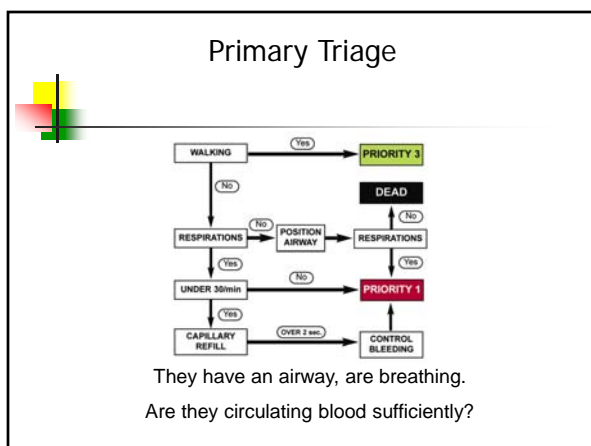
Pulse is 124 (Radial)


He is awake, alert, and crying





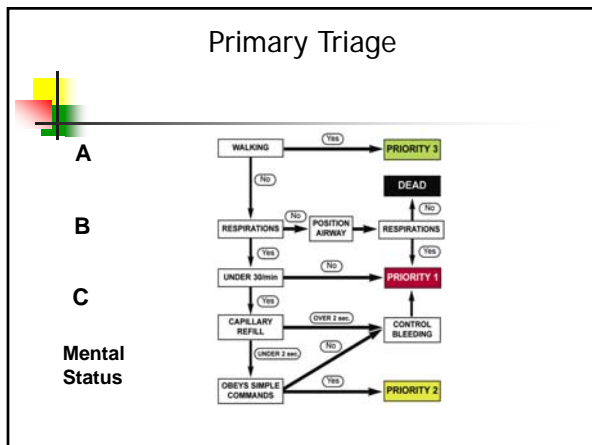







Circulatory Check...

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

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



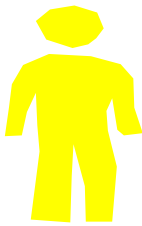
Example


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

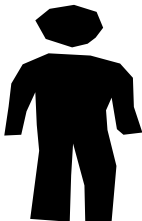



Examples

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

GLASGOW COMA SCORE

EYE OPENING :
 Spontaneously
 To speech
 To pain
 None

VERBAL RESPONSE :
 Oriented
 Confused
 Incomprehensible words
 No response

MOTOR RESPONSE :
 Obeys commands
 Localizes pain
 Flexion withdrawal
 Flexion only
 Extension only
 No response

GLASGOW COMA SCALE TOTAL :

TOTAL GLASGOW COMA SCALE	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

RESPIRATORY RATE :
 12-20
 10-11
 9-10
 8-9
 7-8
 6-7
 5-6
 4-5
 3-4
 2-3
 1-2
 0

SYSTOLIC BP :
 120-139
 100-119
 90-99
 80-89
 70-79
 60-69
 50-59
 40-49
 30-39
 20-29
 10-19
 0

12 = PRIORITY 3
11 = PRIORITY 2
10 or less = PRIORITY 1

TOTAL :

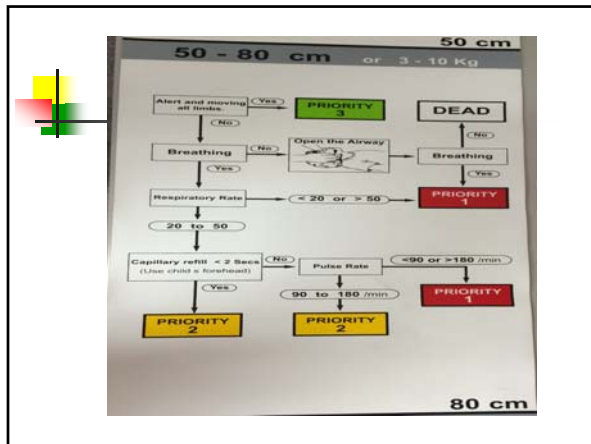
Pediatric Triage



- 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™








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



Scenario

– Practical Application




Instructions

Individual patients will be shown on the screen (with signs/symptoms)

1. Follow SMART Triage methodology
2. Identify important info (not all signs/symptoms are pertinent)
3. Submit your answer via webinar polling platform

Answers will be shown after poll closes!



Scenario

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.

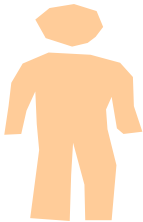
Triage and “Tag” the following patients.

Patient #1

Apneic

Pulse-less

Missing LUE



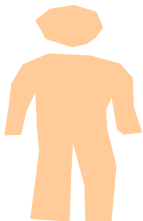
Patient #2

RR 4

Absent Radial pulse

Brain matter exposed

Unresponsive to tactile stimuli



Patient #3

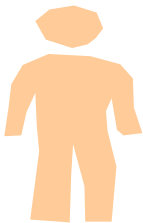
Abd. Tenderness and minor penetrating trauma


Ambulating

A & O x 3

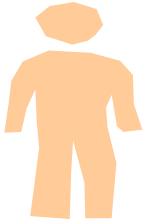
RR 24


Strong radial pulse



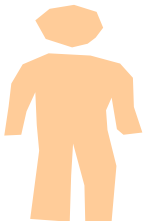
**Patient #4**


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



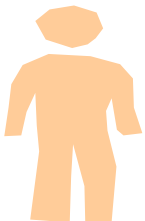
**Patient #5**

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



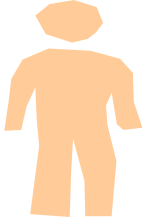
**Patient #6**

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



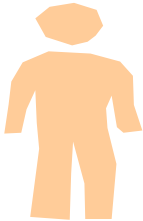
Patient #7

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



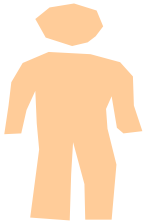
Patient #8


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



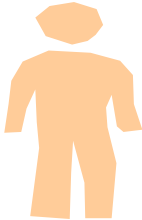
Patient #9

Blood in nose,
mouth and ears
Not breathing




**Patient #9**

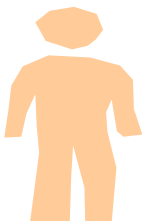
Blood in nose,
mouth and ears
Not breathing




What would you do?

**Patient #10**

Some penetrating
trauma
Unresponsive
Apneic
No radial pulse



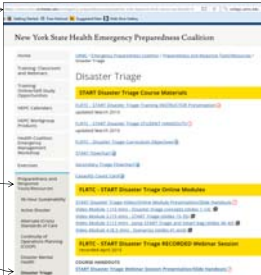
**What is the goal of Disaster Triage training?**

- 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

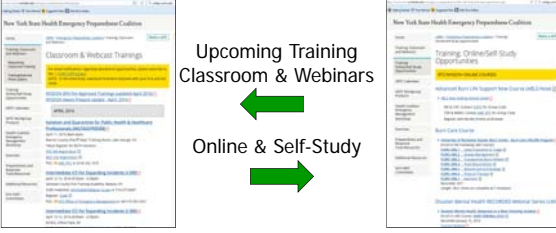
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- Preparedness & Response Tools/Resources
- Disaster Triage



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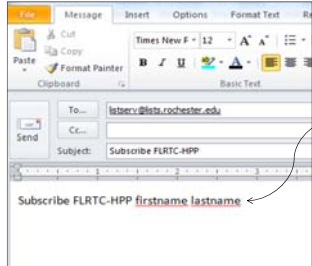


Upcoming Training Classroom & Webinars

Online & Self-Study

For email notifications regarding educational opportunities subscribe to the [FLRTC-HPP listserv](mailto:listserv@lists.rochester.edu)

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NOTE: In the email body, substitute first name lastname with your first and last name.

Questions?? Thank You!

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