

Trauma REACH 2025

Multiple Victim Motor Vehicle Collision & SALT Triage Algorithm

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Objectives


- State the importance of proper triage and transport decisions
- Discuss the treatment of injured special population patients
- Explain the SALT Triage Algorithm
- Discuss the importance of the field triage guideline and it's link to improved survival

National Guidelines for the Field Triage of Injured Patients





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Background


Approximately 0915 on Saturday, August 19, 2023

- Steuben County 911 received reports of rollover MVC

Multiple Patients

Multiple Ejected


Multiple Pediatric



LATEST: Steuben crash remains under investigation; three now dead

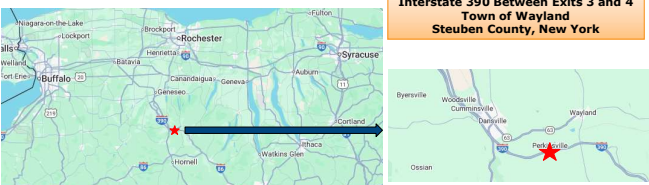
August 20, 2023 6:37 AM / Updated: August 22, 2023 5:47 AM / Staff Report

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The Incident Location



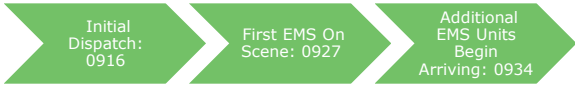
**Interstate 390 Between Exits 3 and 4
Town of Wayland
Steuben County, New York**

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UR MEDICINE | **GOLISANO**
CHILDREN'S HOSPITAL

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The Response



7 EMS Agencies

- 2 Counties

2 Air Medical Services


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UR MEDICINE | **GOLISANO**
CHILDREN'S HOSPITAL

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The Scene

- Vehicle involved was 2005 Ford E-350 16 passenger van



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UR MEDICINE | **GOLISANO**
CHILDREN'S HOSPITAL

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The Scene

13 Total Patients

- Multiple Ejections

9 Adult Patients

- 16 Years or Older
- 1 Pregnant Female in Cardiac Arrest

4 Pediatric Patients

- 1 Deceased On Scene

Mostly Non-English Speaking

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The Hospitals

Strong Memorial Hospital/Golisano Children's Hospital – Level I Adult/Peds Trauma Center
~ 60 Miles From Scene

Guthrie Corning Hospital – Level III Trauma Center
~ 60 Miles From Scene

Noyes Hospital – Community Hospital
~ 5 Miles From Scene

St. James Memorial – Community Hospital
~ 20 Miles From Scene

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Where Did Everybody Go?

Strong/Golisano

- 1 Adult
- 1 Pediatric
- Both By Air

Noyes

- 7 Adults
- Pregnant Cardiac Arrest
- 2 Pediatric

St James

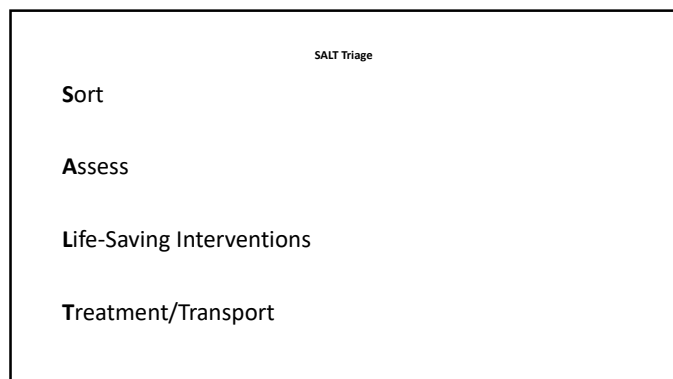
- 1 Adult

Not Transported

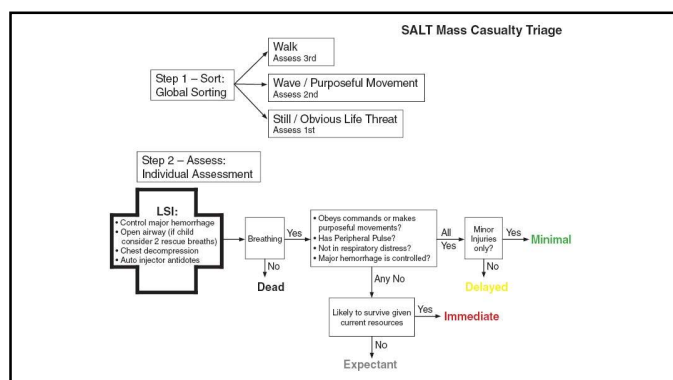
- 1 Deceased Pediatric Patient

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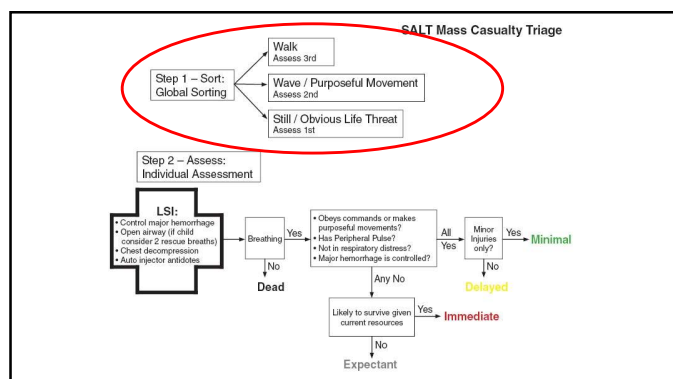
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Global Sorting Result

Casualties are now prioritized for individual assessment

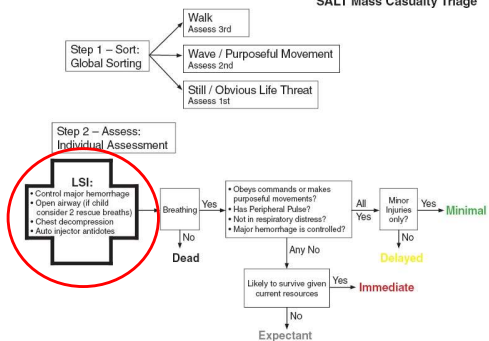
First Priority: Still or unable to move

Second Priority: Waving/purposeful movements

Third Priority: Walking

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SALT Mass Casualty Triage

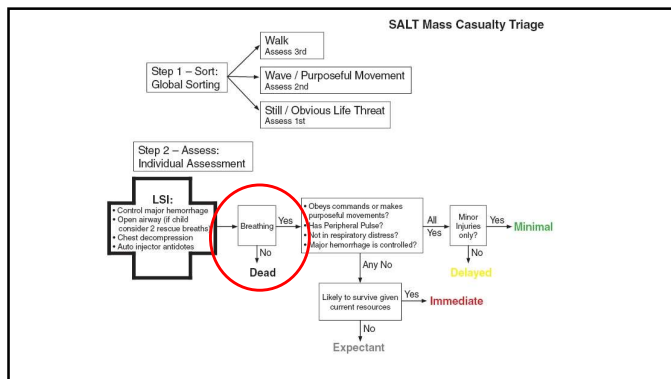


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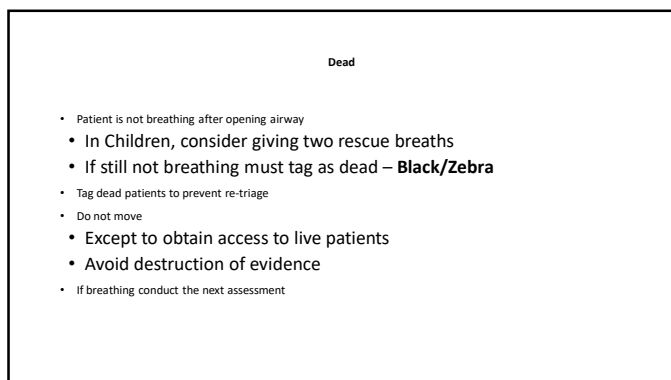
Step 2: Assessment – Life Saving Interventions

- Control major external hemorrhage
 - Tourniquet
 - Wound Packing
- Open airway if not breathing
 - If child, consider giving 2 rescue breaths
- Chest needle decompression (if equipped)
- Auto injector antidotes (if equipped and appropriate)

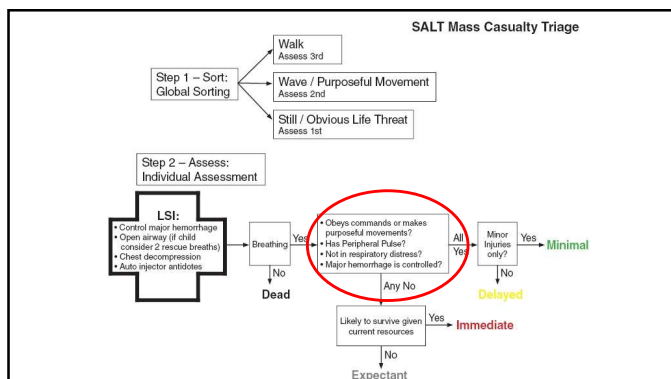
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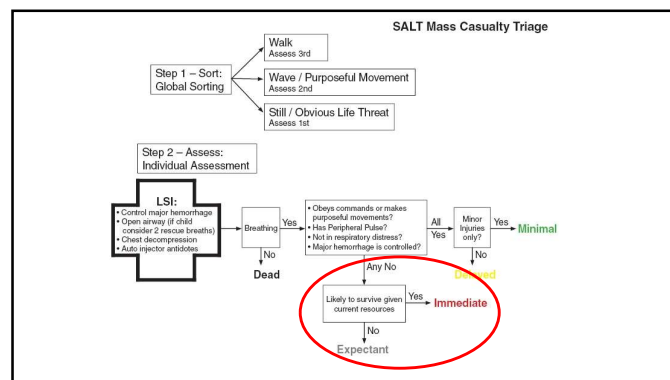
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Mnemonic for Assessment Questions

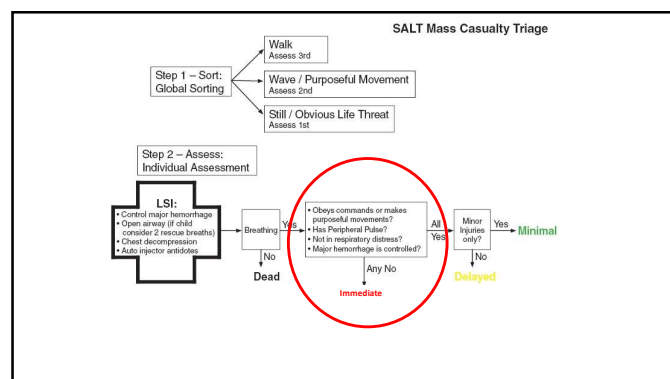
C – Follows Commands
 R – Respiratory Distress
 A – (Uncontrolled) Arterial bleeding
 P – Peripheral Pulse

"Bad" answer to *any*: **Red (Immediate)**

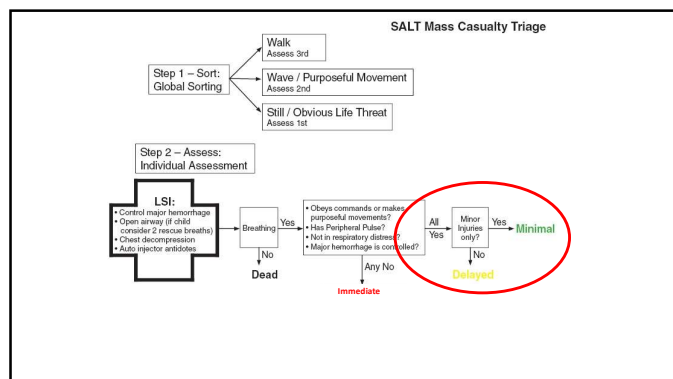
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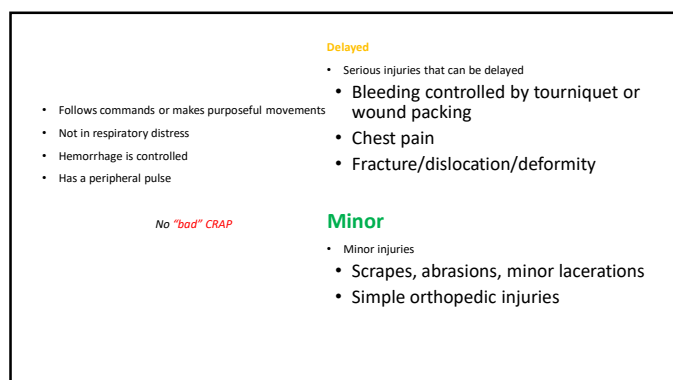
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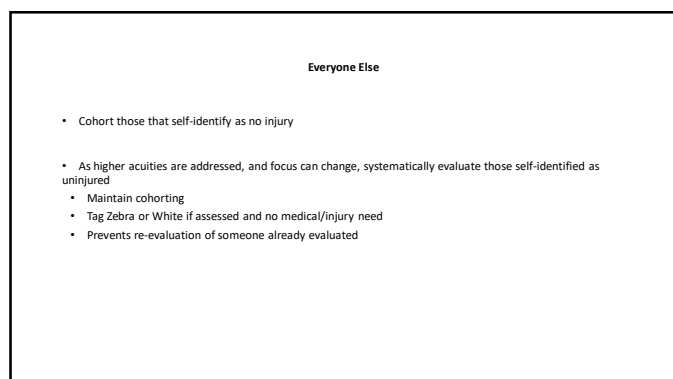
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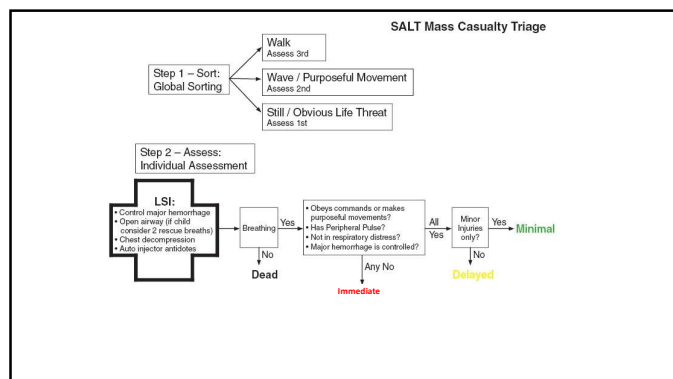
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Now What?

Back to our van crash...

Let's use the SALT Triage Algorithm on the actual patients from this incident!



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Patient Presentations

Patient	Presentation	Initial Destination	Mode	Disposition
43 YOF	Still; + weak radial; + respiratory distress	SMH	Air	BTICU - Deceased
8 YOM	Waves; + radial; - LTH; - resp. dist	GCH	Air	PICU
37 YOF	Waves; + radial; - LTH; - resp dist	NNH	Ground	Xfer to SMH
8 YOM	Walking; + radial; - LTH; - resp dist	NNH	Ground	Xfer to SMH
34 YOM	Waves; + radial; - LTH; - resp dist	NNH	Ground	Xfer to SMH
16 YOF	Waves; + radial; bleeding from leg wound; - resp dist	NNH	Ground	Xfer to SMH
49 YOF	Waves; + radial; - LTH; - resp dist	NNH	Ground	Xfer to SMH
40 YOF	Still; No pulse, no respirations	NNH	Ground	Deceased
13 YOM	Walking; + radial; - LTH; - resp dist	NNH	Ground	EDDC
41 YOM	Walking; + radial; - LTH; - resp dist	NNH	Ground	EDDC
20 MOM	Walking; + radial; - LTH; - resp dist; forehead lac	NNH	Ground	EDDC
40 YOM	Walking; + radial; - LTH; - resp dist	SJMH	Ground	EDDC
12 YOM	Still – No pulse, no respirations	N/A	N/A	Deceased

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Patient Presentations

Patient	Presentation	Initial Destination	Mode	Disposition
43 YOF	Still; + weak radial; + respiratory distress	SMH	Air	BTICU - Deceased
8 YOM	Waves; + radial; - LTH; - resp. dist; ALOC	GCH	Air	PICU
37 YOF	Waves; + radial; - LTH; - resp dist; extremity fx	NNH	Ground	Xfer to SMH
8 YOM	Walking; + radial; - LTH; - resp dist	NNH	Ground	Xfer to SMH
34 YOM	Waves; + radial; - LTH; - resp dist; extremity fx	NNH	Ground	Xfer to SMH
16 YOF	Waves; + radial; bleeding from leg wound; - resp dist	NNH	Ground	Xfer to SMH
49 YOF	Waves; + radial; - LTH; - resp dist; extremity fx	NNH	Ground	Xfer to SMH
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41 YOM	Walking; + radial; - LTH; - resp dist	NNH	Ground	EDDC
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40 YOM	Walking; + radial; - LTH; - resp dist	SJMH	Ground	EDDC
12 YOM	Still - Moribund	N/A	N/A	Deceased

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Patient Presentations

Patient	Presentation	Initial Destination	Mode	Disposition
43 YOF	Still; + weak radial; + respiratory distress	SMH	Air	BTICU - Deceased
8 YOM	Waves; + radial; - LTH; - resp. dist	GCH	Air	PICU
37 YOF	Waves; + radial; - LTH; - resp dist	NNH	Ground	Xfer to SMH
8 YOM	Walking; + radial; - LTH; - resp dist	NNH	Ground	Xfer to SMH
34 YOM	Waves; + radial; - LTH; - resp dist	NNH	Ground	Xfer to SMH
16 YOF	Waves; + radial; bleeding from leg wound; - resp dist	NNH	Ground	Xfer to SMH
49 YOF	Waves; + radial; - LTH; - resp dist	NNH	Ground	Xfer to SMH
40 YOF	Still; No pulse, no respirations	NNH	Ground	Deceased
13 YOM	Walking; + radial; - LTH; - resp dist; bumps/bruises	NNH	Ground	EDDC
41 YOM	Walking; + radial; - LTH; - resp dist; bumps/bruises	NNH	Ground	EDDC
20 MOM	Walking; + radial; - LTH; - resp dist; forehead lac	NNH	Ground	EDDC
40 YOM	Walking; + radial; - LTH; - resp dist	SJMH	Ground	EDDC
12 YOM	Still - Moribund	N/A	N/A	Deceased

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To Recap:

- State the importance of proper triage and transport decisions
- Discuss the treatment of injured special population patients
- Explain the SALT Triage Algorithm
- Discuss the importance of the field triage guideline and it's link to improved survival

- Triage decisions and transport destination are **not** the same thing
- Injured special population patients should be transported to centers that can care for them if possible
- The SALT Triage Algorithm is a simple, quick and effective MCI triage tool
- Knowing and following the transport guidance provided by the National Field Triage Guidelines can help get patients to the appropriate center
 - Initial transport to those centers *is not always possible* – do the best you can

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