

Global Objectives: Upon completion of the class, participants will do the following w/o critical error:

- Correctly differentiate EMS responses to small, medium, and large scale MPIs using the SOPs.
- Use the SALT priorities; START and JumpSTART triage, and SMART tag system to accurately perform primary and secondary triage on sample patients.
- Explain the provisions of the CHEMPACK plan and how assets are requested & transported to the scene.
- Characterize respect and professional behaviors when responding to real or simulated MPI events.

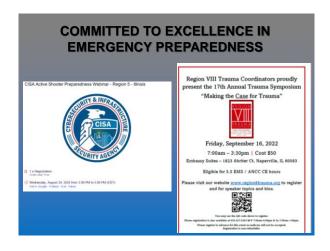




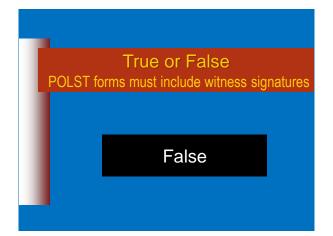
JumpSTART training is required:	
 Every other year for EMS Annually for ED Staff (to maintain EDAP) Completed rosters must be submitted to Lurie Children's 	Pediatric Disaster Triage: Utilizing the JumpSTART' Rethold Training Completion Form Isoline Oy
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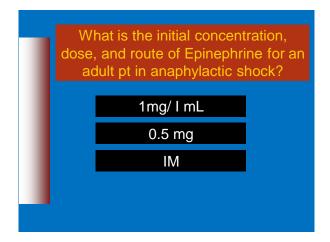
COMMITTED TO EXCELLENCE IN EMERGENCY PREPAREDNESS

- August 30th NCH Hospital Response Team Training (CBRNE/ HazMat/ Chemical Decon for ED staff)
- September 14th Region 8/9 Joint Exercise for MCI / Radiation Emergency
- October 17th Helipad Emergency Exercise with Arlington Heights FD and PD, Superior helicopter, NCH staff, and NWCD





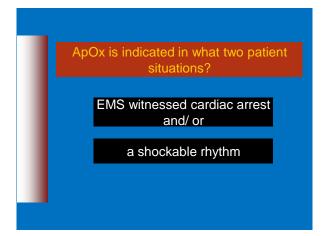


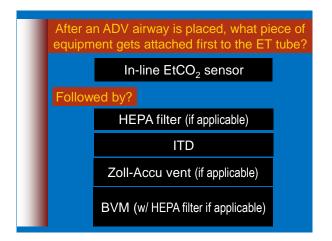


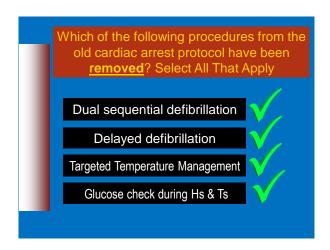
How shall oxygen be administered while treating anaphylaxis given the pt is awake w/ spontaneous effort?

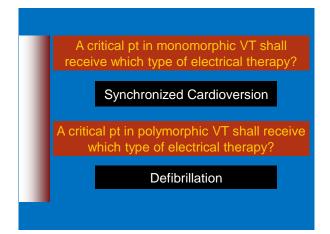
Consider CPAP 5-7 cm PEEP

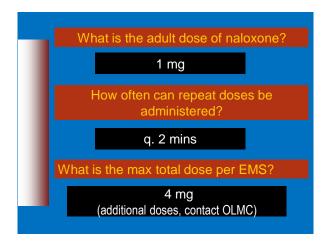
What is the minimum MAP a pt MUST present with in order to use CPAP?











What is the max dose of ketamine for sedation?

300 mg

If no IV, what is the recommended approach to administration?

If IN:

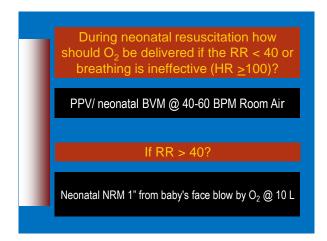
Up to 50 mg (1 mL) per nostril &/or

If IM:

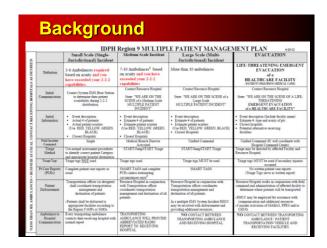
Up to 150 mg (3 mL) (may use both anterolateral thighs through clothing prn)

What are some oral carbohydrate options to treat a hypoglycemic pt with GCS 14-15 & the ability to safely swallow?

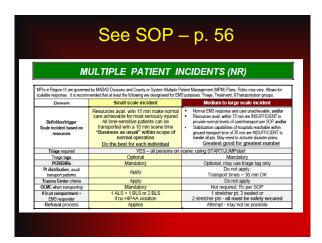
Glucose tablets
Glucose gel (15 g/tube)
Sweetened fruit juice
Soda (regular)
Honey
Granulated sugar







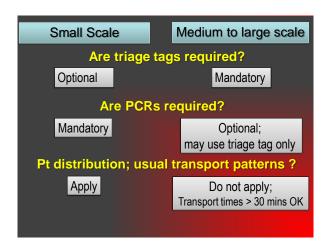


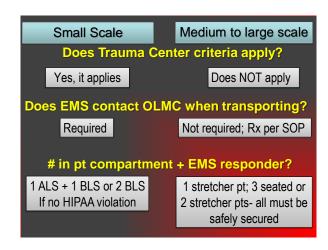


Define/ trigger Scale incident based on resources

- Resources avail w/in 15 mins are sufficient
- · All time-sensitive pts can be transported w/in a 10 min scene time
- "Business as usual" w/in the scope of normal operation
- Do the best for each individual

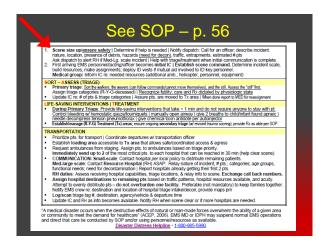
- Resources avail w/in 15 mins are insufficient to provide normal levels of care/ transport per SOP
- · Stabilization capabilities of hospitals reachable w/in ground transport time of 30 mins insufficient
- · Greatest good for greatest number

















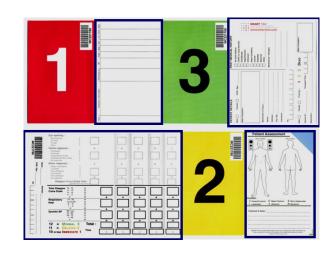


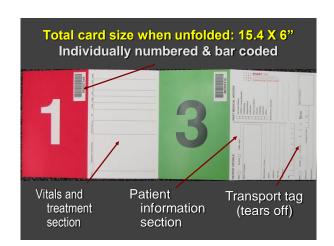


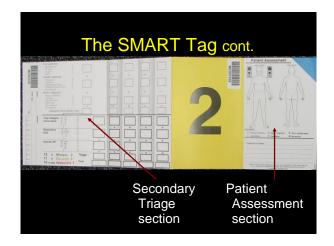










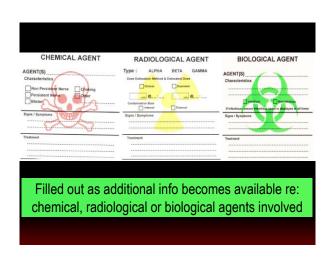






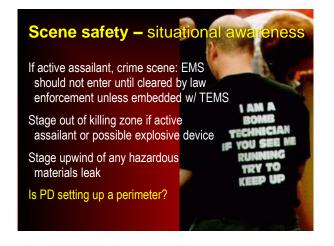






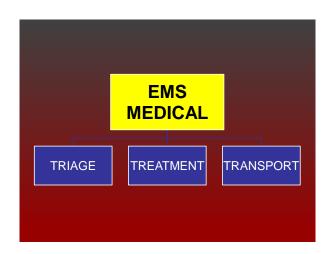






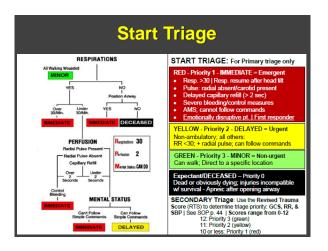












The SALT method

Four-step process for first responders to manage mass casualty incidents; stands for:

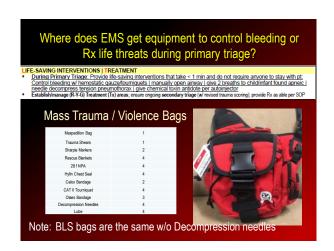
- Sort
- Assess
- Lifesaving interventions
- Treatment and/or transport



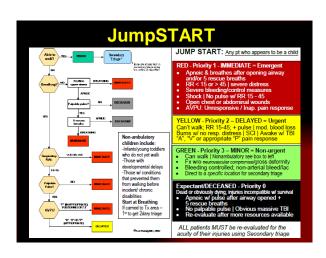


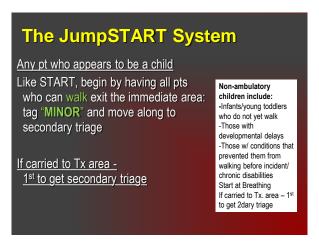


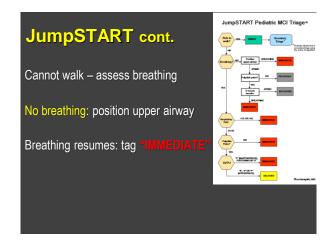


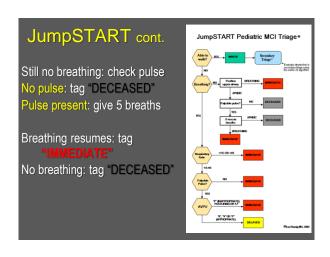


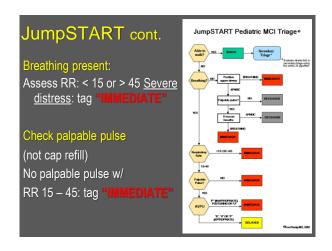


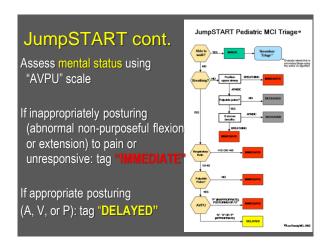












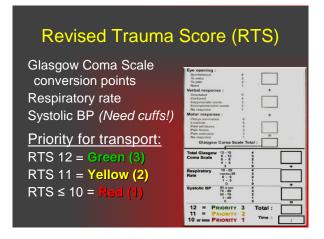






























START practice - Your Scenario

0815 hrs. A call to 911 is received. As 5th grade students were arriving by bus this am to XYZ Middle School for a science lab field trip, several children noted an usually large pipe on the lawn outside a classroom window near the back parking lot.

The assistant principal (911 caller) offers to meet PD outside the front of the main entrance and reports there were 2 sick calls with office staff today, including the principal.

Your Scenario continued

As the first police unit arrives, an explosion occurs near the back of the school, taking down the outside wall and windows of at least one classroom. The responding officer calls dispatch to report the event and requests additional personnel and EMS to the scene.

What are some initial thoughts and concerns regarding the incident as FIRE/ EMS is dispatched?

Your Scenario continued

The middle school houses more than 500 individuals including students and staff. As the smoke outside clears, it is evident that at least one affected room is the science lab where the 5th graders, teacher, and student teacher were present.

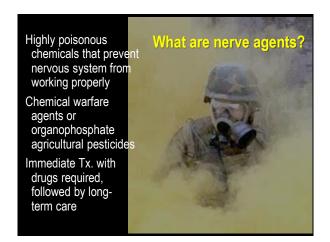
The adjacent rooms are another science lab and lab supplies storage room. Across the hallway in that wing of the school are the nurses office and furnace/ utility room.

Additional concerns or thoughts based on further information?

Your Scenario continued

Upon arrival, the first few victims are able to move/ stumble out of the wreckage. They are coughing with their eye tearing, complaining of chest tightness, stomach cramping, and runny noses. On exam they all have constricted pupils.

What are these victims presenting signs and symptoms of exposure to?



Nerve agents / Cholinergic poisons



Pesticides/Herbicides

- Parathion: Malathion
- Chlorpyrifos
- Diazinon

Chemical Weapons

- Sarin
- Tabun
- Soman
- Cyclosarin

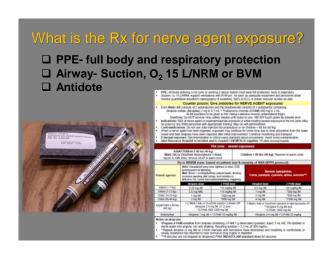


What happens when people are exposed to nerve agents?

In very small amounts, are highly toxic when inhaled, swallowed, or come in contact with skin or eyes All routes of exposure cause extreme side effects

Rx in WARM zone: based on patient size & se

"SLUDGEMM" Salivation Lacrimation (tear secretion) **U**rination Defecation "Killer B's" Gastrointestinal upset Bronchorrhea Emesis (vomiting) Bronchospasm Muscle twitching **B**radycardia Miosis (pinpoint pupils)



What drugs are effective antidotes against chemical nerve agents?

Atropine

- · Blocks excess acetylcholine
- · Reduces runny nose
- Reduces salivation
- Relieves chest tightness
- Eases vomiting and diarrhea

Pralidoxime (2-PAM)

- · Reactivates cholinesterase, thereby reducing levels of acetylcholine
- · Reduces muscle weakness and paralysis

Diazepam (or midazolam)

Reduces severity of agitation and seizures



- If CHEMPACK assets needed: Incident Commander shall activate their agency's CHEMPACK plan and notify their EMS System Resource Hospital of the situation The Resource Hospital ED Charge Physician will determine if CHEMPACK assets are necessary
- Provide the following information to the Resource Hospital and the CHEMPACK cache site:
- Time of chemical release exposure

- Time of chemical release exposure
 Location of exposure event
 Suspected chemical agent, if possible
 Estimated number of victims
 On-sone Incident Commander's contact name and phone number
 Location to deliver assets
 Individual that will be receiving the assets (incident Commander, Logistics Section Chief, Medical Officer, Treatment Officer)
- If ED Charge Physician authorizes release of CHEMPACK assets, the Resource Hospital shall contact the appropriate CHEMPACK cache site of the need to deploy 1/3rd (or as needed) of their EMS CHEMPACK assets. Provide that facility's ED Charge Nurse with the above listed information. Resource Hospitals with a CHEMPACK cache will deploy 1/3rd of their assets (or as needed) prior to contacting the closest CHEMPACK cache site.

EMS (Field) Incident Site Mobilization

- The designated receiving agency individual (e.g. Incident Commander, Logistics Section Chief, Medical Officer, Treatment Officer) will sign for custody of the delivered CHEMPACK assets on Copy B-Yellow Chain of Custody Transfer Form will sign for custody of the delivered CHEMPACK assets on Copy B-Vellow will remain with the receiving agency. The designated receiving agency individual who signed for the CHEMPACK assets at the incident site will be responsible for the accounting, securing, deploying, and reporting of the unused assets.

 The EMS system Provider will be responsible for the transportation of the EMS CHEMPACK materials to the specific site location where they will be secured and maintained and dispensed.





Depends on the agency requesting

Requesting CHEMPACK Assets creates an internal ripple effect

ED Charge RN gathers info and follows flowchart

- Consults with Medical Director/ Charge Physician to authorize release
- Completes CHEMPACK Release Form
- Request NCH security to assist until AHPD arrives (or designated police entity if AHPD unavailable)

Realistically assets may take 45 minutes to arrive **EARLY NOTIFICATION IS PARAMOUNT!**

CHEMPACK EMS ASSEST DISTRIBUTION

- Arlington Heights
- Barrington
- Buffalo Grove
- Inverness Lake Zurich
- Lincolnshire RW
- Long Grove
- Mount Prospect
- Palatine Prospect Heights
- Rolling Meadows
- Schaumburg

- Bloomingdale
- Elk Grove Village
- Elk Grove Township
- Hoffman Estates
- Schaumburg (if ABMC is
- Wood Dale

