Drill MCI Scenario Cases:

1. Six-year old girl
   a. Impact Zone: Six-year old girl found in the yard. She presents with apparent minor injuries, bleeding laceration in right hand, frontal contusion. RR: 30; HR: 100; palpable peripheral pulse, disoriented, sleepy, responsive to verbal commands.

      Yellow: Head trauma

   b. AMP: Six-year old girl found in the yard. She presents with apparent minor injuries, bleeding laceration in right hand, frontal contusion. RR: 30 x'; HR: 100 x'; palpable peripheral pulse, disoriented, sleep, responsive to verbal commands.

      Now: Increased HR: 150, thready pulse. Increased abdominal distention.

      Red; TBI, BAT; Tx: increased IVF

   c. Evacuation and Transportation: Six-year old girl found in the yard. She presents with apparent minor injuries, bleeding laceration in right hand, frontal contusion. RR: 30 x'; HR: 100 x'; palpable peripheral pulse, disoriented, sleep, responsive to verbal commands. Transported with IVF’s and high flow oxygen.

      Red; TBI, BAT; Tx: increased IVF

   d. Hospital: Six-year old girl found in the yard. She presents with apparent minor injuries, bleeding laceration in right hand, frontal contusion. RR: 30 x'; HR: 100 x'; palpable peripheral pulse, disoriented, sleep, responsive to verbal commands.

      Now: GCS is 3, VS: RR 5, HR 70, non-responsive.

      Red; TBI, BAT; Tx: Increased ICP in context of multiple trauma, NS

2. Seventeen-year old boy
   a. Impact Zone: Seventeen-year old boy found with multiple body injuries and lacerations. RR: 20, HR: 110 capillary refill less then 2 s;. Unconscious. Right pupil, 6mm; left pupil 3mm. Apparent deformity in right arm, and bleeding scalp laceration.

      Red: intracranial hypertension, probable epidural hematoma.

   b. AMP: Seventeen-year old boy found with multiple body injuries and lacerations. RR: 20, HR: 110 capillary refill less then 2 s;. Unconscious. Right pupil, 6mm; left pupil 3mm. Apparent deformity in right arm, and bleeding scalp laceration.

      Red: intracranial hypertension, probable epidural hematoma

      Additional measures for herniation and intubation

   c. Evacuation and Transportation: Seventeen-year old boy found with multiple body injuries and lacerations. RR: 20, HR: 110 capillary refill less then 2 s;. Unconscious. Right pupil, 6mm; left pupil 3mm. Apparent deformity in right arm, and bleeding scalp laceration.

      Now: Apneic

      Red: intracranial hypertension, probable epidural hematoma

   d. Hospital: Seventeen-year old boy found with multiple body injuries and lacerations. RR: 20, HR: 110 capillary refill less then 2 s;. Unconscious. Right pupil, 6mm; left
pupil 3mm. Apparent deformity in right arm, and bleeding scalp laceration. Has become apneic and is being bagged or ETT was placed.

Red: intracranial hypertension, probable epidural hematoma

3. Ten year old boy
   a. Impact Zone: Ten-year old boy. Initially found roaming; later presented a brief period of unconsciousness. Dazed. RR: 48, HR 140; capillary refill: 5s; reduced palpable peripheral pulse.
      Red: Hypovolemic shock. Stabilize and IVF’s
   b. AMP: Ten-year old boy. Initially found roaming; later presented a brief period of unconsciousness. Dazed. RR: 48, HR 140; capillary refill: 5s; reduced palpable peripheral pulse.
      Now with seizure
      Red: Hypovolemic shock. Stabilize and IVF’s
      RX: valium, more IVF’s
   c. Evacuation and Transport: Ten-year old boy. Initially found roaming; later presented a brief period of unconsciousness. Dazed. RR: 48, HR 140; capillary refill: 5s; reduced palpable peripheral pulse.
      HR and RR improved. Still hypotensive, weak pulse, crf ~ 3sec. Responds to painful stimuli, convulsions.
      Yellow/Red: partially compensated shock.
   d. Hospital: Ten-year old boy. Initially found roaming; later presented a brief period of unconsciousness. Dazed. RR: 48, HR 140; capillary refill: 5s; reduced palpable peripheral pulse. Had a seizure and was treated with valium and IVF’s in the field.
      Now: RR = 20, HR = 100, crf = 2s, 95/50
      Yellow: partially compensated shock

4. One-year old girl
   a. Impact Zone: One-year old girl found in her mother’s arms outside the explosion. She looks alert and irritable. RR: 33; HR: 110; capillary refill: <2 s.
      Yellow: Infant in mother’s arms
   b. AMP: One-year old girl found in her mother’s arms outside the explosion. She looks alert and irritable. RR: 33; HR: 110; capillary refill: <2 s.
      Now increase irritability, HR 160, cap refill 4 sec. Abdomen distended.
      Red: BAT. Tx: IVF’s using an I.O. needle.
   c. Evacuation and Transportation: One-year old girl found in her mother’s arms outside the explosion. She looks alert and irritable. RR: 33; HR: 110; capillary refill: <2 s. Had increase irritability, HR 160, cap refill 4 sec. Abdomen distended in AMP.
      Red: BAT. Tx: IVF’s using an I.O. needle.
d. **Hospital:** One-year old girl found in her mother’s arms outside the explosion. She looks alert and irritable. RR: 33; HR: 110; capillary refill: <2 s. Had increase irritability, Now: HR 160, cap refill 4 sec. Abdomen distended.

   Red: BAT. Tx: IVF’s using an I.O. needle.
   Additional Tx: CBC and types PRBCs O-;
   If no improvement, surgery and CT scan; admit to PICU.

5. Thirteen-year old boy
   a. **Impact Zone:** Thirteen-year old boy found hiding inside the building, alert, with debris covering his legs. Multiple injuries and contusions, RR: 28; HR: 88; capillary refill: <2”. He obeys simple commands.
      Yellow: Potential injuries from crushing
      Tx: Splint, wound care
   b. **AMP:** Thirteen-year old boy found hiding inside the building, alert, with debris covering his legs. Multiple injuries and contusions, RR: 28; HR: 88; capillary refill: <2”. He obeys simple commands.
      Yellow: Potential injuries from crushing
      Tx: Splint, wound care
   c. **Evacuation and Transportation:** Thirteen-year old boy found hiding inside the building, alert, with debris covering his legs. Multiple injuries and contusions, RR: 28; HR: 88; capillary refill: <2”. He obeys simple commands. Increased pain; decreased perfusion lower right leg. **Now HR to 112.**
      Yellow/Red: Potential injuries from crushing+ compartment syndrome;
      Rx: IVFs, elevation
   d. **Hospital:** Thirteen-year old boy found hiding inside the building, alert, with debris covering his legs. Multiple injuries and contusions, RR: 28; HR: 88; capillary refill: <2”. He obeys simple commands.
      Now: HR = 112, increase pain with no dorsal pedal pulse, dusky color
      Yellow/Red: Potential injuries from crushing+ compartment syndrome
      Rx: surgery, fasciotomy

   a. **Impact Zone:** Found inside the building with multiple injuries and scalp lacerations. Deformity in both legs, cloths showing abundant bleeding.
      Unconscious, apneic although positioned for airway opening. Capillary refill: > 10”.
      Black
   b. **AMP:**
   c. **Evacuation and Transportation:**
   d. **Hospital:**

7. Twenty six-year old man.
8. Four-year old boy.
   a. **Impact Zone:** Four-year old boy found outside. Unconscious. RR: 22; HR: 120; capillary refill: 2s; palpable peripheral pulse. He opens his eyes in response to painful stimuli, with verbal incoherent response.
      *Red: Head Injury*
   b. **AMP:** Four-year old boy found outside. Unconscious. RR: 22; HR: 120; capillary refill: 2s; palpable peripheral pulse. He opens his eyes in response to painful stimuli, with verbal incoherent response.
      *Red: Head Injury*
   c. **Evacuation and Transportation:** Four-year old boy found outside. Unconscious. RR: 22; HR: 120; capillary refill: 2s; palpable peripheral pulse. He opens his eyes in response to painful stimuli, with verbal incoherent response.
      *Red: Head Injury*
   d. **Hospital:** Four-year old boy found outside. Unconscious. RR: 22; HR: 120; capillary refill: 2s; He opens his eyes in response to painful stimuli, with verbal incoherent response.
      *Red: Head Injury*
      
      **Now:** RR = 10, HR = 58, BP = 150/90.
      *Red: Head Injury*
      
      Now: Cushing’s triad (increased BP; decreased pulse; irregular respirations). Rx: BMV, ETT, elevate, mannitol

a. **Impact Zone:** Eleven-year old boy found unconscious inside building. Laceration in left leg and multiple contusions. Apneic, despite receiving 5 rescue breathings; no palpable pulse.

  *Black*

10. Nine-year old girl


    *Red: Head Injury*
    *Tx: resuscitation with A,B,C’s.*


    *Red: Head Injury*
    *Tx: resuscitation with A,B,C’s.*


    *Red: Head Injury*
    *Tx: resuscitation with A,B,C’s.*


    *Now: RR: 30 HR: 120: BP 60/40. GCS: 5*
    *Red: Head Injury*
    *Tx: resuscitation with A,B,C’s.*

11. Five-year old boy

  a. **Impact Zone:** Five-year old boy found outside building. Multiple contusions, dazed, apparent difficult breathing. RR: 65; HR: 138; capillary refill: 2s, palpable peripheral pulse.

    *Red: Pneumothorax*

  b. **AMP:** Five-year old boy found outside building. Multiple contusions, dazed, apparent difficult breathing. RR: 65; HR: 138; capillary refill: 2s, palpable peripheral pulse.

    *Now: Non-responsive, does not respond to verbal commands. RR: 75 x’; HR: 160 x’; capillary refill 5”. Trachea displaced to the right.*

    *Red: Tension Pneumothorax*
    *Tx: needle decompression and resuscitation*

  c. **Evacuation and Transportation:** Five-year old boy found outside building. Multiple contusions, dazed, apparent difficult breathing. RR: 65; HR: 138; capillary refill: 2s, palpable peripheral pulse. Became: Non-responsive, does not
respond to verbal commands. RR: 75; HR: 160; capillary refill 5s. Trachea
displaced to the right in the AMP. Needle decompression in the AMP.
Now: Conscious, irritable, RR:30; HR: 130; capillary refill 3s. Decreased
respirator sounds in left hemithorax. Symmetrical normal reactive pupils.
Normal abdomen and extremities.
Yellow
Tx: increase oxygen
d. Hospital: Five-year old boy found outside building. Multiple contusions, dazed,
apparent difficult breathing. RR: 65; HR: 138; capillary refill: 2s, palpable peripheral
pulse. Has had needle decompression of tension pneumothorax.
Now: Reactive, irritable, RR: 20 x³; HR: 110 x³; capillary refill 3s
Yellow: Chest tube

12. Thirteen-year old boy
a. Impact Zone: Thirteen-year old boy found at the back of the building. Conscious,
crying, with burns on both arms and right leg. RR: 32; HR 120; capillary refill: <2s
Yellow: Unable to walk, burns
b. AMP: Thirteen-year old boy found at the back of the building. Conscious, crying,
with burns on both arms and right leg. RR: 32; HR 120; capillary refill: <2s
Yellow: Unable to walk, burns
Tx: IVF’s, brief wound/burn care
c. Evacuation and Transportation: Thirteen-year old boy found at the back of the
building. Conscious, crying, with burns on both arms and right leg. RR: 32; HR
120; capillary refill: <2s
Now: increase pain, crf = 3s, some extremity pallor.
Yellow: Unable to walk, burns
d. Hospital: Thirteen-year old boy found at the back of the building. Conscious,
crying, with burns on both arms and right leg. RR: 32; HR 120; capillary refill: <2s
Now: HR=145, crf LE’s 6 sec+, UE 2s. Burn is circumferential to LE’s with no
distal pulses, sensation or motor, dusky.
Yellow/Red: Compartment syndrome
Escarotomy, Burn management, pain, IVF’s

13. Twenty-five year old woman
a. Impact Zone: Twenty-five year old woman found outside building roaming with
an infant in her arms, hysterical, she does not obey commands. RR 22; HR: 92;
capillary refill:<2s
Green: Panic attack
b. AMP: Does not go to AMP, circumvents the decon process and proceeds directly
to the ED.
d. Hospital: Twenty-five year old woman found outside building roaming with an
infant in her arms, hysterical, she does not obey commands. RR 22; HR: 92; capillary
refill:<2s. Circumvented the decon process in the field.
Green: Panic attack
Tx: decon infant and the mother

14. Ten-year old boy
a. **Impact Zone:** Ten-year old boy found roaming, alert. Minor injuries and contusions. RR: 28; HR: 88; capillary refill: <2. He obeys simple commands.

  *Green: minor injuries*

b. **AMP:** Ten-year old boy found roaming, alert. Minor injuries and contusions. RR: 28; HR: 88; capillary refill: <2. He obeys simple commands. Does not get decontaminated. Transported with similar patients in bulk on bus to hospital.

  *Green: minor injuries*

c. **Evacuation and Transportation:** Ten-year old boy found roaming, alert. Minor injuries and contusions. RR: 28; HR: 88; capillary refill: <2. He obeys simple commands. Does not get decontaminated. Transported with similar patients in bulk on bus to hospital.

  *Green: minor injuries*

d. **Hospital:** Ten-year old boy found roaming, alert. Minor injuries and contusions. RR: 28; HR: 88; capillary refill: <2. He obeys simple commands. Does not get decontaminated. Transported with similar patients in bulk on bus to hospital.

  *Green: minor injuries, need ambulatory decon.*