



Lao PDR Integrated Emergency Response Training 2025



Scene Size Up

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Topics

- 1** Body Substance Isolation
- 2** Determine Scene Safety
- 3** Determine the Number of the Problem
- 4** Determine the Number of Patients
- 5** Additional Resources



Body Substance Isolation (BSI)

Body Substance Isolation (BSI)

- **Body fluids are hazardous**
(“If it’s wet and it’s not yours...don’t touch it”)
- **Gloves are standard for all calls.**
- **Have other BSI equipment available:**
 - **Gowns**
 - **Mask**
 - **Eye protection**

Body Substance Isolation (BSI)



Determine Scene Safety

Determine Scene Safety

- **Dynamic process**
 - **-Characteristics may change**
- **You must take control of the scene**
 - **-Leadership is your responsibility**
 -

Scene Size-up



Determine Scene Safety

- **Obtaining dispatch information**
 - **Scene safety starts here:**
 - **Multiple patients?**
 - **Need for law enforcement?**
 - **Need for the Fire Department or other services?**
 - **Dispatchers may have incomplete or wrong information from the caller.**
 - **The scene dynamics may also have changed**

Consider Scene Characteristics

- **Study the scene quickly**
- **Hazards present?**
 - **Do not enter the scene until it is safe**
- **If a scene becomes hazardous after you enter, quickly retreat to safety**



Consider Scene Characteristics



Consider Scene Characteristics



Danger Zone

- **Protect Patient**
- **Protect Bystanders**
- **No apparent Hazards**
 - **Minimum 15 meters**
- **Apparent Hazards**
 - **Minimum 33 meters**




Determine Scene Safety

- **Control the scene:**
 - **Make the scene as safe as possible:**
 - **Adequate lighting**
 - **Moving furniture for access and exiting**
 - **Maintain an escape route**
 - **Stay calm**
 - **Remain diplomatic with actions and words**
 - **Be flexible.**

Determine the Number of the Problem

Determine Nature of the Problem



- **Mechanism of Injury (MOI)**
 - **The process by which the patient was injured**
 - **Nature of Illness (NOI):**
 - **The patient's chief medical complaint**
 -
- 

Mechanism of injury

- **Maintain a high index of suspicion with:**
 - **Death of another occupant of the vehicle**
 - **An unresponsive Patient**
 - **A Patient with an altered mental status**



The Kinetics of Trauma



Mechanism of injury

Motor Vehicle Collision



Side Impact



Rear End



Rollover

Mechanism of injury



Mechanism of injury



Mechanism of injury



Mechanism of injury

Fall

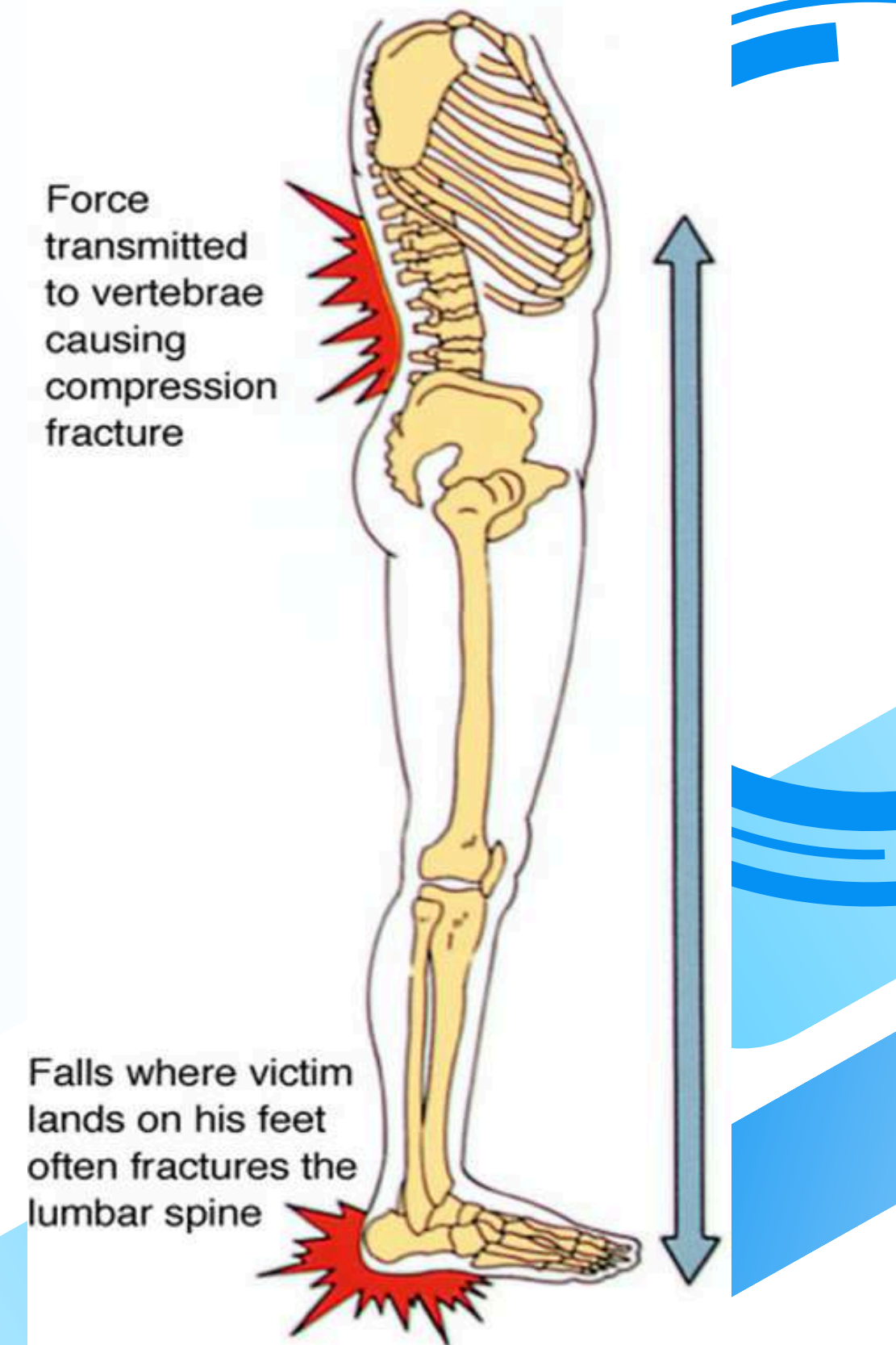
- **Most common MOI**
- **Injuries depend upon:**
- **“Significant” height of fall**
 - **>5 meters for adult**
 - **>3 meters for children**
- **Surface landed on:**
 - **Concrete**
 - **Grass**
 - **Dirt**
- **Region of body landed on first**
- **Age and general condition of the patient**



Mechanism of injury

- **Feet first landings:**
 - **Fractures of the heels**
 - **Ankle injuries**
 - **Knee joint injuries**
 - **Possible vertebral injuries**

Fall



Mechanism of injury

Fall

- **Head first falls may fracture:**

- **Arms and shoulders**
 - **Outstretched arms**

- **Neck**

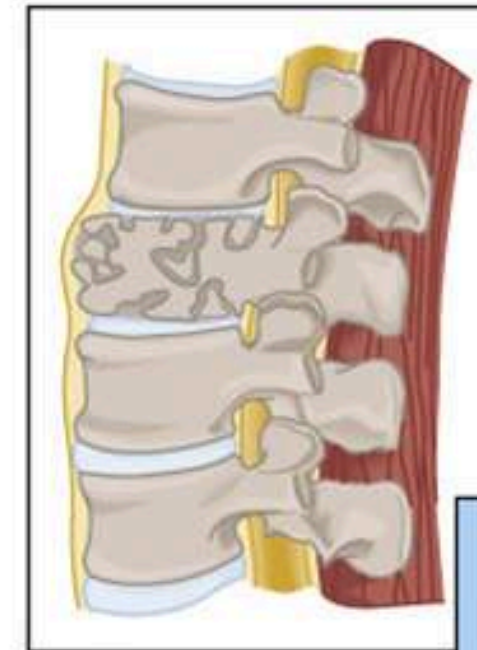
- **Hyperextended**
- **Hyperflexed**

- **Compression fractures**

to the cervical spine.

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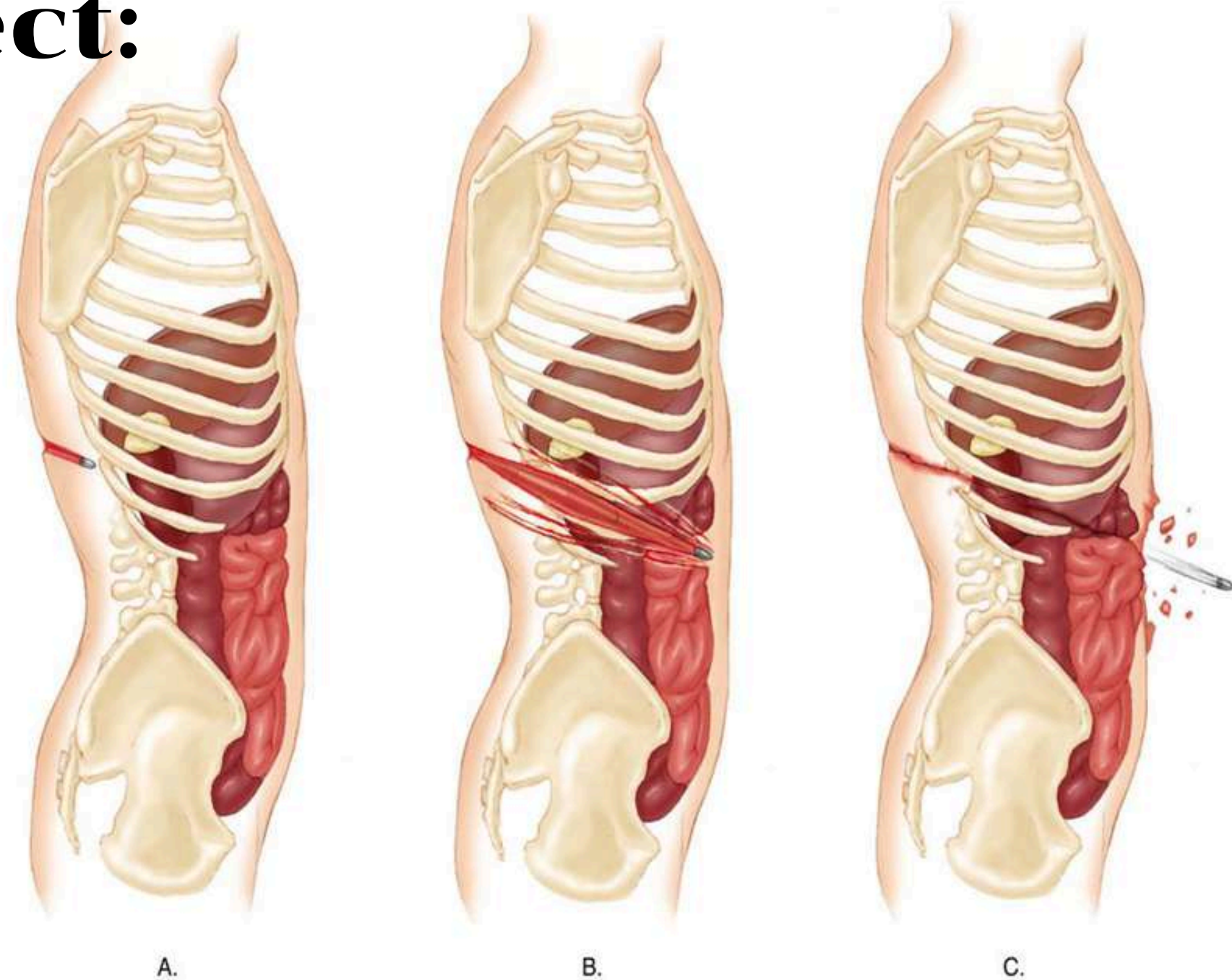
COMPRESSION INJURY



Mechanism of injury

Penetrating Injuries

- Injuries depend on:
 - Type of tissue the object:
 - Bullets
 - Darts
 - Nails
 - Knives

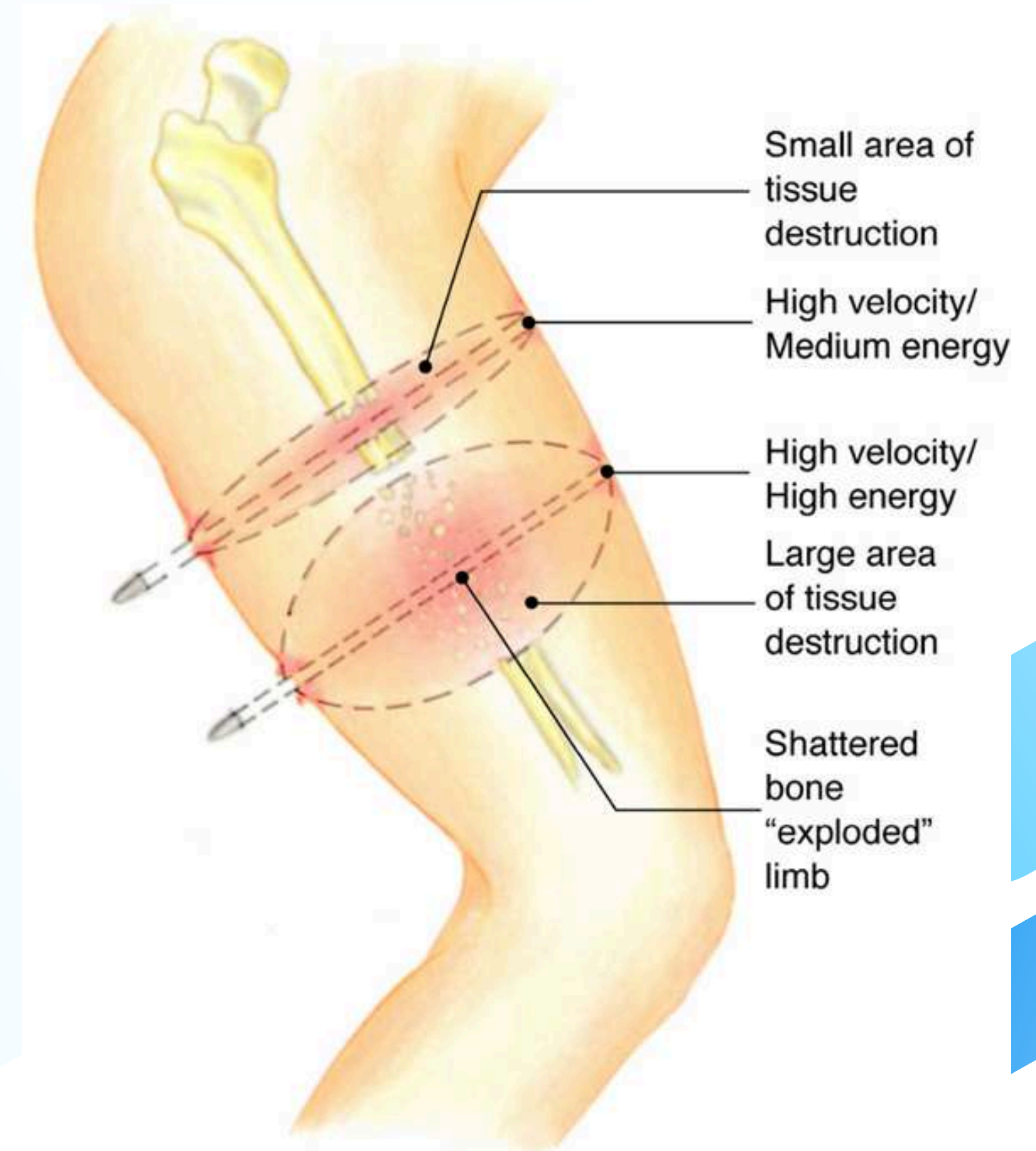


Mechanism of injury

- **Penetrating Injuries**
 - **Penetrating injuries are classified as:**
 - **Low velocity**
 - **Medium velocity**
 - **High velocity**

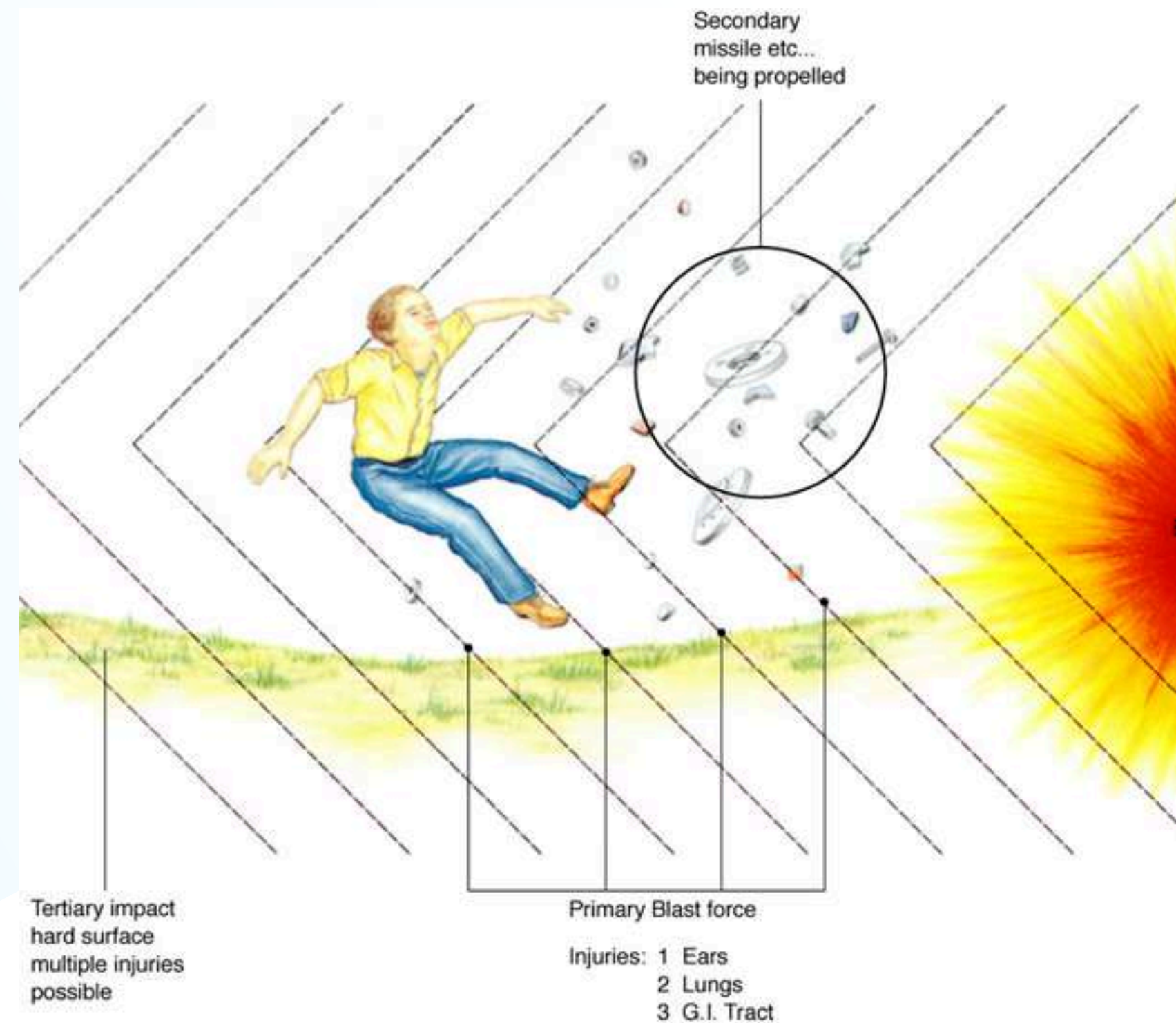
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Velocity



Mechanism of injury Blast Injuries

- **Every explosion has three distinct phases:**
 - **Primary Phase**
 - **Pressure wave injuries**
 - **Secondary Phase**
 - **Injuries from flying debris**
 - **Tertiary Phase**
 - **Injuries from being**
 - **thrown by the blast and**
 - **landing against something.**



Number of Patients

Determine Number of Patients

- **Always call early for more help than you think you may need.**
- **Be alert for mass casualty incidents.**
 - **How many cars?**
 - **How many in the car?**
 - **Bystanders**
 - **Explosions**
 - **Building Collapse**



Additional Resources

Adequacy of Resources

- Call for resources EARLY
- Use Triage procedures when needed



Adequacy of Resources

- **Number of Patient's?**
 - **More ambulances?**
- **Hazardous Materials?**
 - **Haz-Mat Unit**
- **Fire, Rescue, Police?**
- **Unusual situations?**
- **Advanced Life Support personnel?**

Adequacy of Resources



Every call you MUST



Use BSI

Assess scene safety

Determine MOI

**Determine number of
patients**

**Obtain additional help if
needed**



THANK YOU

