



LEARNING OBJECTIVES

- ✘ By the end of this session the learners will be able to:
 - + Define & describe various injuries due to explosions
 - + Explain the cause of death and autopsy findings in explosions
 - + Discuss medicolegal aspects of death due to explosions

EXPLOSION INJURIES

× Explosion

× Explosive

+ Types

+ Components

× Blast injury

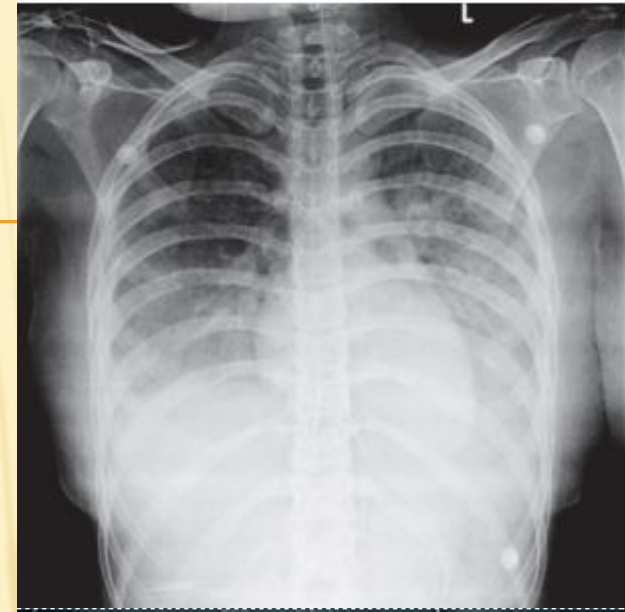


BLAST INJURY

× Four categories

+ Primary injuries

- × Blast wave
- × In immediate vicinity
- × At greater distance
- × Blast lesions
- × Acoustic barotrauma
- × Blast lung
- × GIT



BLAST INJURY

+ Secondary injuries

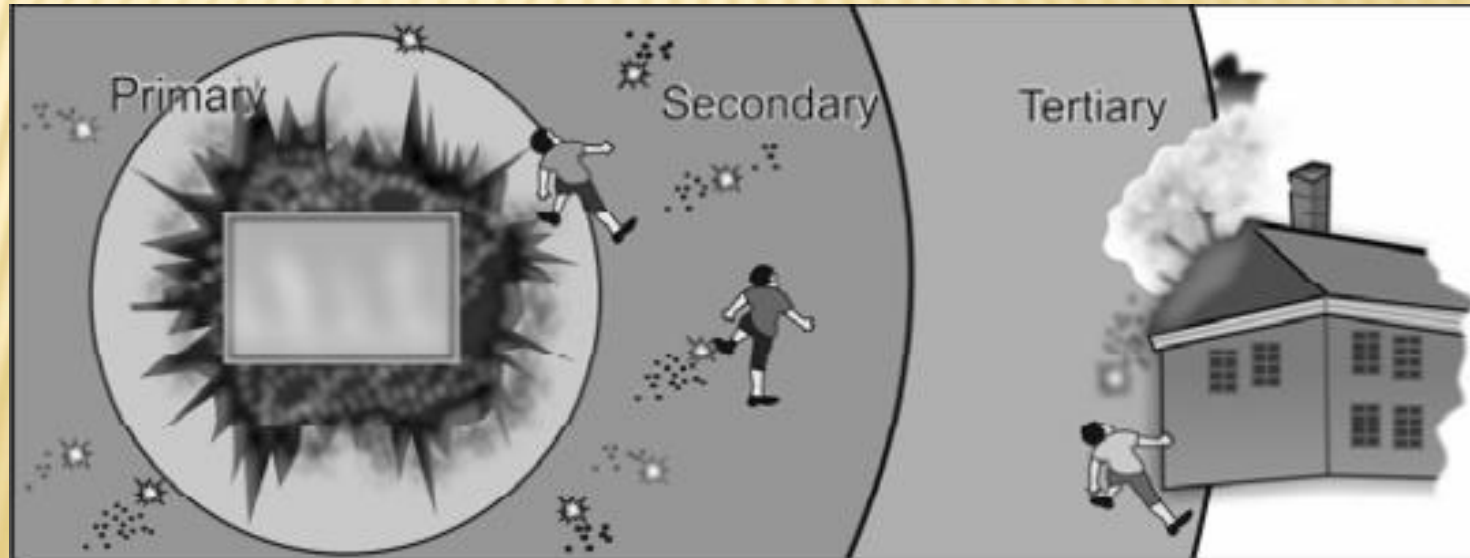
- × Objects propelled
 - ✦ Primary missiles
 - ✦ Secondary missiles
- × Penetrating trauma
- × Nail bombs
- × Injury characteristics
 - ✦ Classical triad



BLAST INJURY

× Four categories

- + Tertiary injuries
- + Quaternary injuries
 - × Burns
 - × Crush injuries



FACTORS RESPONSIBLE FOR EXPLOSION INJURIES

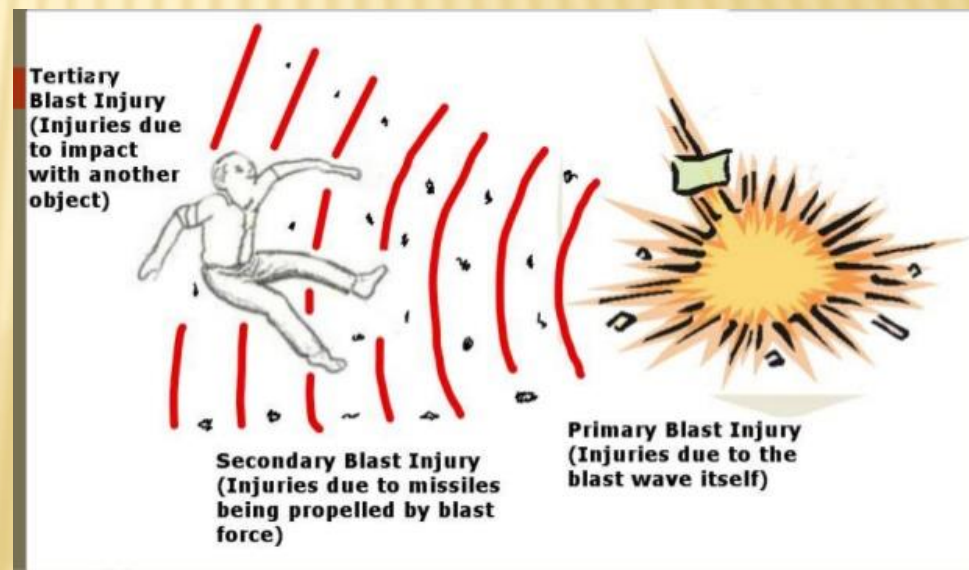
- ✘ Blast wave
- ✘ Flame or hot gases
- ✘ Flying missiles
- ✘ Anoxia



FACTORS RESPONSIBLE FOR EXPLOSION INJURIES

× Blast wave:

- + Spreads concentrically
- + Immediate vicinity
- + At slightly greater distance
- + Blast lesions
 - × Hollow viscera
 - × Fragile organs.
- + Under water blast



FACTORS RESPONSIBLE FOR EXPLOSION INJURIES

- ✘ Flame or hot gases
- ✘ Flying missiles:
 - + Primary
 - + Secondary
 - + Injuries
- ✘ Anoxia



EXPLOSION INJURIES

× Cause of death:

- + Disintegration
- + Burns
- + Injuries
- + Asphyxia
- + Crush syndrome
- + Shock
- + Air embolism



EXPLOSION INJURIES

✘ Postmortem appearance

- + Shattered body
- + Injuries due to various causes
- + Small hemorrhages
- + Organ ruptures
- + X-ray



EXPLOSION INJURIES

× Medicolegal aspects:

- + Accidental
- + Homicidal
 - × Time bomb
 - × Impact bomb
 - × Incendiary bomb
 - × Molotive cocktail



Questions