



# TOOLBOX TALK



## TOPIC DISCUSSED:

### CRUSH SYNDROME AND BUILDING COLLAPSE HAZARDS



According to the Diseases Database, crush syndrome is a severe systemic condition caused by prolonged crushing of soft tissues, often seen in building collapses. It leads to increased cell membrane permeability and the release of potassium, enzymes, and myoglobin, resulting in ischemic renal dysfunction, acute tubular necrosis, and uremia.



## QUESTIONS:

1. What is crush syndrome and what common situations can cause it?
2. What are the key symptoms of crush syndrome to look out for?
3. What hazards should rescue workers be aware of when entering a collapsed structure?

## TAKE A LOOK AT THE FOLLOWING:

WHAT IS

# CRUSH SYNDROME?

A severe medical condition that can occur following a crush injury, common in victims of **BUILDING COLLAPSES**, earthquakes, mine disasters, explosions, and other major accidents.

## HAZARDS WHEN ENTERING A COLLAPSED STRUCTURE



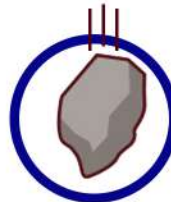
ELECTRICAL HAZARDS



STRUCTURAL INSTABILITY



OXYGEN DEFICIENCY



FALLING OBJECTS



SHARP OBJECTS



FIRE HAZARDS

## EMERGENCY PROCEDURES

- 1 Ensure Personal Safety
- 2 Alert Emergency Services
- 3 Evacuate and Assist
- 4 Establish Safety Perimeter
- 5 Account for All Individuals
- 6 Medical Attention

## COMMON SYMPTOMS



**CRUSHING INJURY** to a large mass of skeletal muscle.



**SENSORY** and motor issues in compressed limbs.



**NAUSEA, VOMITING,** confusion, due to body chemistry disruption.



Reduced urine output with severe **FLUID LOSS** shock.



Myoglobinuria, which can cause early **TEA-COLORED URINE.**

