


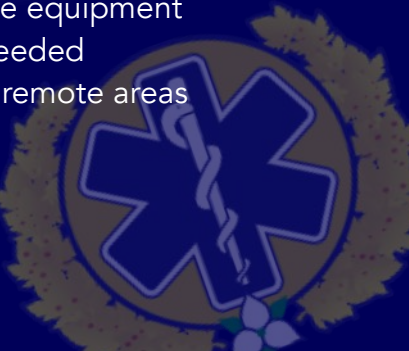
Emergency Medical Responder

AGRICULTURAL AND INDUSTRIAL EMERGENCIES



Why are farm accidents so serious?

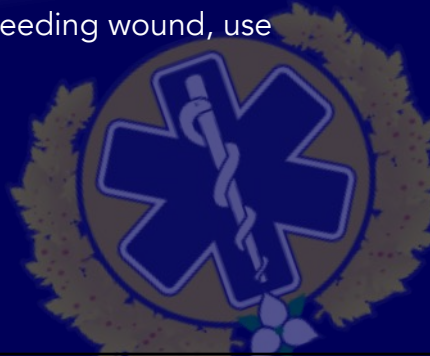
- Complicated farm machinery
- Farmers don't use PPE
- Farmers often use old, unsafe equipment
- Lengthy extrications often needed
- Farmers often work alone in remote areas
- Often no phone at scenes
- Long transport times





For a patient entangled in equipment,
do the following:

- 1) ABCs
- 2) If you can apply pressure to bleeding wound, use nearest pulse point
- 3) Monitor vitals
- 4) Preserve amputated parts



Rescue should begin only when all of the
following have been done:

- 1) Farm equipment stabilized
- 2) Engines shut down
- 3) Other hazards (leaking fuel) controlled
- 4) Patient stabilized





Mechanisms Causing Injury with Tractors and Farm Equipment

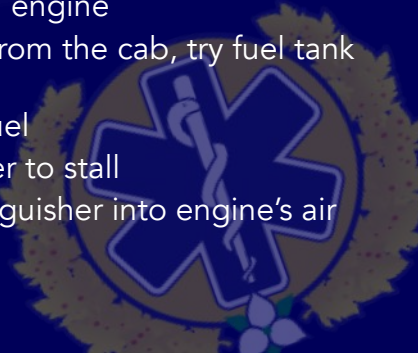
- Pinch points
- Wrap points
- Shear points
- Crush points
- Stored energy



CHAPTER 23 AGRICULTURAL AND INDUSTRIAL EMERGENCIES

Stabilizing Farm Machinery

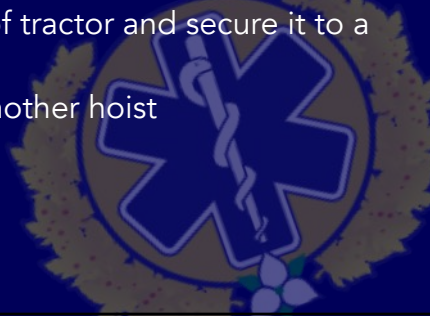
- 1) Enter cab, if possible
- 2) Slow engine with throttle
- 3) Pull knob or lever to shut down engine
- 4) If you can't shut down engine from the cab, try fuel tank area
- 5) Last resort – interrupt flow of fuel
- 6) Diesel engine – loosen fuel filter to stall
- 7) Discharge a 9 kg CO₂ fire extinguisher into engine's air intake





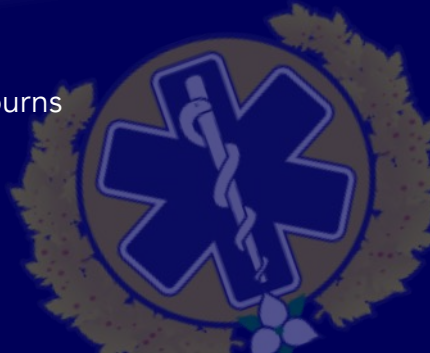
Tractor Stabilization

- 1) Wrap 1st chain around rear tire and through rim's high slot
- 2) Wrap 2nd chain around same wheel and rim's low slot
- 3) Wrap 3rd chain through front of tractor and secure it to a hoist
- 4) Secure 1st and 2nd chains to another hoist



Patient assessment

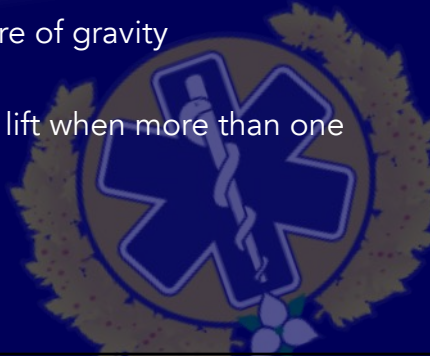
- 1) ABCs
- 2) Suspect possible chest injuries, including pneumothorax and sucking chest wounds
- 3) Treat patient for shock
- 4) Look for burns and chemical burns
- 5) Stabilize all injuries





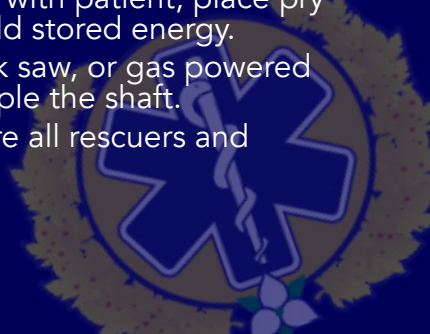
Lifting or Removing Overturned Tractor from Patient

- 1) Ensure all rescuers know their role
- 2) Try to determine tractor's centre of gravity
- 3) Watch patient during lift
- 4) Use extra care in coordinating lift when more than one device is used



Disentangling Patients from PTO Shafts

- 1) Always assume neck and back injuries.
- 2) If patient is completely wrapped on shaft, determine if clothing can be cut free.
- 3) If PTO shaft must be removed with patient, place pry bar into implement side to hold stored energy.
- 4) Cut shaft with power saw, hack saw, or gas powered circular saw if you can't uncouple the shaft.
- 5) When removing patient, ensure all rescuers and bystanders remain clear.
- 6) Locate amputated parts.





Other Types of Agricultural Equipment

- Combine
- Auger
- Corn picker
- Snapping rolls
- Husking beds
- Hay baler



Agricultural Storage Devices

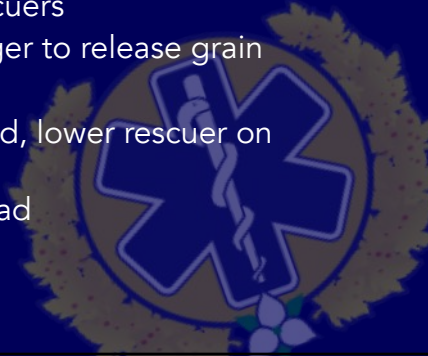
- Grain tank
- Silo
- Manure storage





In Grain tank extrication remember to:

- 1) Turn electrical power off
- 2) Call fire department
- 3) Never enter without other rescuers
- 4) Do not use gravity gate or auger to release grain
- 5) Secure patient with lifeline
- 6) If patient is partially submerged, lower rescuer on harness with lifeline
- 7) Clear area around patient's head



Silos

- Silo gas can be recognized by
 - 1) Bleach-like odour
 - 2) Yellowish or reddish vapour
 - 3) Stains of red, yellow, or brown
 - 4) Dead birds or insects
 - 5) Nearby livestock with signs of illness





- Reactions to Silo Gas
 - 1) Eye irritation
 - 2) Cough, possibly laboured breathing
 - 3) Fatigue
 - 4) Nausea, vomiting
 - 5) Cyanosis
 - 6) Dizziness, sleepiness



Manure Storage Areas

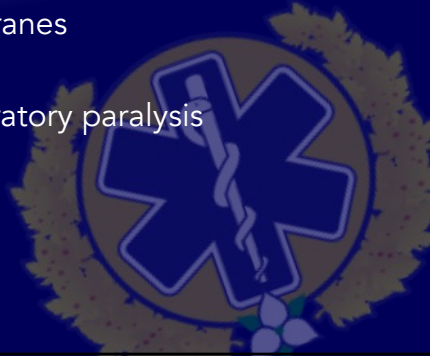
- There are two potential injuries from liquid manure
 - 1) Drowning
 - 2) Inhaling toxic fumes





Signs and Symptoms of Hydrogen Sulfide Poisoning

- Cough
- Irritation of mucous membranes
- Nausea
- Sudden collapse and respiratory paralysis



In an industrial emergency

- Check with staff to determine potential hazards
- Never assume any machine is locked and secured
- Wait for specialized personnel for confined space rescues, or those in which the patient has been injured by an airborne or spilled agent

