UNIT 9 FALLS CAR FARS

AG HEALTH 101



CHAPTER DISCUSSION QUESTIONS

Chapter 1. Introduction to Falls

Describe a time when you fell. When describing it, try to address these factors so the conditions and outcome is clear to others: What were you doing before the fall? What was the condition of the surface and surrounding environment? What were the clothing/footwear/hand conditions that might have played a factor? Was the outcome an injury?

Chapter 2. Fall Risks on the Farm

Given the many sources of fall hazards on a farm, think about how a farmer who may be in a hurry to complete a task and might forget about a fall hazard and take a step that causes a fall. What options do you think would be useful to get a change in behavior so that the risk of fall is minimized?

Chapter 3. Personal Risk Factors

What types of discussions would you have with patients to determine if there are personal risk factors present that may affect their work? How would you communicate these personal fall risk factors with a farmworker?

Chapter 4. Fall Prevention Tips & Resources: Ladders

Think about buying a ladder to do chores in your own home. What tasks might you need a ladder to do and what information would you need to select the right type and size of ladder?

Chapter 5. Fall Prevention Tips & Resources: Getting Off Equipment

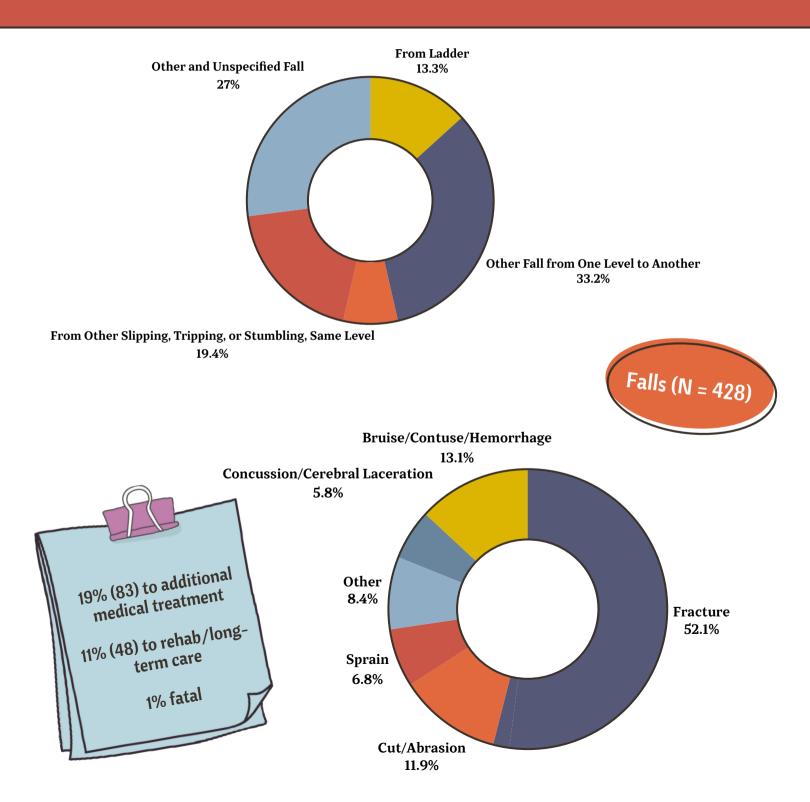
From the content presented in this chapter, what were three factors that contributed to the fall out of the tractor? Think both physical and emotional factors. What recommendations do you have to others, consider both engineering and behavioral, on how to prevent a fall when descending a tractor to exit it?

Chapter 6. Fall Prevention Tips & Resources: Ice

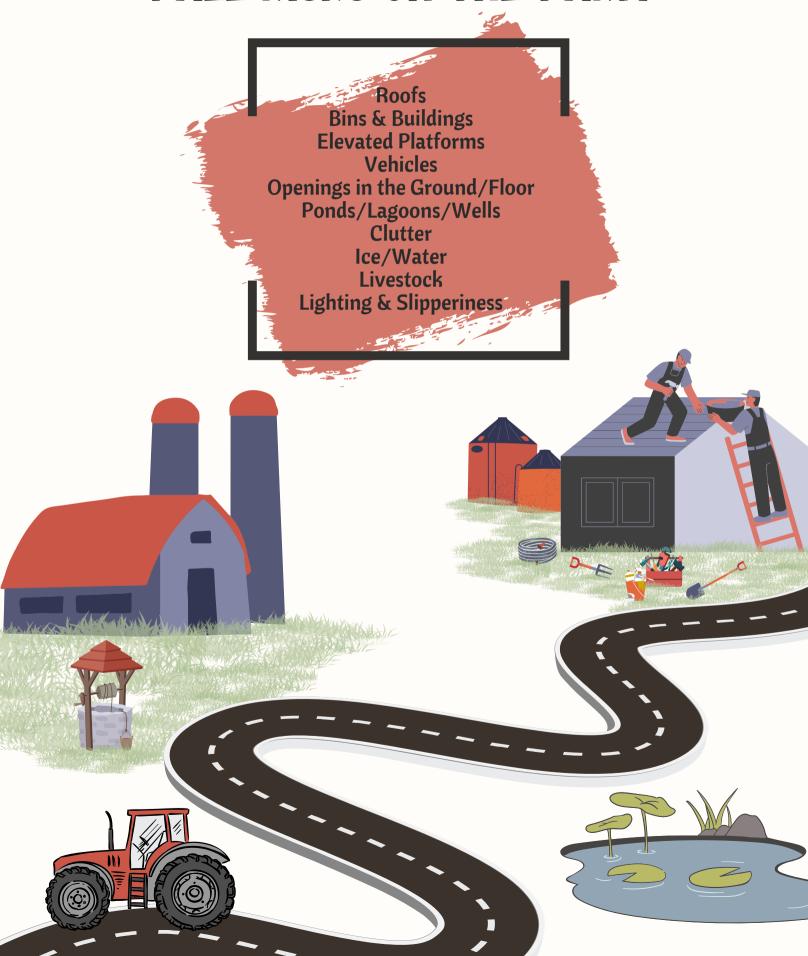
Reflect on your home and identify where the falls on ice risks are at your home. Do you have any particularly icy areas that you can plan for this year? Do you have a need for slip traction? Discuss your plan for preventing falls on ice this winter.

CHAPTER 1 INTRODUCTION TO FALLS

Figure 3: Distribution of fall causes (top) and resulting distribution of fall diagnoses (bottom)



CHAPTER 2 FALL RISKS ON THE FARM





FARM FALL HAZARDS

Hazard Present

Yes

Hazard Fixed

- 1. Are all buildings free of trash, junk or tools in walkways and work areas?

No

- 2. Are wood floors free of rotten or broken floor boards, exposed nails and other defects?
- **3**. Are concrete floors free from badly broken sections, raised areas, slippery spots or other defects?
- 4. Are stairs and ladders in good condition? Are handrails and stairs secure and free of objects and slippery surfaces?
- 5. Are buildings lighted to illuminate walkways and work areas so you can see hazards adequately?
- **6.** Are floors and walking surfaces in livestock facilities clear of manure, mud and feed material?
- 1. Are silo and bin ladders secure and in good condition?
- **8.** Do all bins have permanent ladders on both the outside and inside?
- **9**. Do silos or bins taller than 30 feet possess a safety cage or climbing device?
- 10. Are the operator's platforms on tractors and other equipment free of grease, mud and tools?

PERSONAL RISK FACTORS FOR FALL:

- Age
- Recent Fall
- Medications
- Eyesight
- Balance Problems
- Cognitive Problems
- Certain Chronic Diseases -Osteoporosis, Diabetes, Arthritic, or Parkinson's Disease

Anti-Anxiety Drugs:

Diazepam (Valium), Lorazepam (Ativan)

Diphenhydramine (Benadryl):

Antihistamine: Also included in many sleep aids (Nyquil, Unisom) & in nighttime medicines with pain medications (Tylenol PM, Advil PM, Motrin PM, Aleve PM)

Medications to Treat Oxybutynin (Ditropan), Tolterodine Overactive Bladder: (Detrol)

Tricyclic Antidepressants: Amitriptyline (Elavil)

Prescription Sleep Drugs: Zolpidem (Ambien), Zaleplon (Sonata), & Eszopiclone (Lunesta)

Opioid Narcotics: Codeine, Hydrocodone (Vicodin), Oxycodone (Percodan, Percocet), Hydromorphone (Dilaudid) &

Fentanyl (Duragesic)

CHAPTER 4

FALL PREVENTION TIPS & RESOURCES

LADDERS

EXTENSION LADDER SAFETY

STEP LADDER SAFETY

Get Ready...

- ✓ Wear non-slip footwear
- ✓ Have a plan for getting materials & tools to working height
- ✓ Choose the right ladder for the job
 - ladder height
 - appropriate footings
 - ladder composition
 - weight limit

- Get Set...
- ✓ Inspect your ladder
- **✓** Both feet on solid surface
- ✓ Ensure there are no overhead hazards
- ✓ Be sure the locking devices are engaged
- ✓ Ladder should get you within 4' of work
- ✓ If accessing another level, ladder should extend 3' above that surface

GO!

- ✓ Maintain 3 points of contact while climbing
- **✓** Never stand on the top 3 rungs
- ✓ Don't overreach keep your belt buckle between the side rails while you work
- **✓** Appropriate tasks include:
 - accessing another level
 - construction
 - building maintenance

Anatomy of an Extension Ladder ROPE & PULLEY ROPE & PULLEY BASE SECTION RUNG LOCKS

Get Ready...

- **✓** Wear non-slip footwear
- ✓ Have a plan for getting materials & tools to working height
 - \checkmark Choose the right ladder for the job
- Get Set...
 - appropriate footings
- ✓ Inspect your ladder
- ladder composition

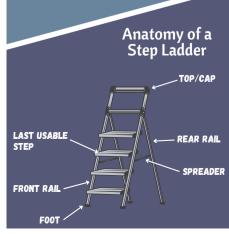
ladder height

weight limit

- ✓ Both feet on solid surface
- ✓ Ensure there are no overhead hazards
- **✓** Be sure the locking devices are engaged
- ✓ Ladder should get you within 4' of work area
 - ✓ If accessing another level, ladder should extend 3' above that surface

GO!

- ✓ Maintain 3 points of contact while climbing
- **✓** Never stand on the top 2 steps
- ✓ Don't overreach keep your belt buckle between the side rails while you work
- **✓** Appropriate tasks include:
 - changing lightbulbs
 - painting
 - building maintenance
 - construction







CHAPTER 5

FALL PREVENTION TIPS & RESOURCES

GETTING OFF EQUIPMENT

CASE STUDY

Brian's Story: "I was bailing soybean stubble and was disgusted because the baler plugged. I got off that tractor going a hundred-miles-per-hour; I climbed down the absolute wrong way - face forward instead of backing down - and my foot caught between the bottom two steps when I pivoted to step off. I fell backward and had nothing to grab to break my fall, and my leg snapped. I think about it every single day."

Since his fall, Brian has replaced the narrow steps on three of his five tractors with safety steps and grab rails. The steps he prefers for his older tractor are one-piece closed steps, which he finds to be safest. An after-market "service step" mounted on his John Deere 4020 tractor now gives him better access to the fuel tank and radiator. Whenever he gets on or off a tractor now, he is facing it.

Advice from Brian's Wife, Pam: "Don't work when you're tired. I'm glad he makes a point to get his work done before dark so he's not working late hours while he's tired."

Brian added, "Think everything through before you do a job. It's the little things, everyday things you take for granted that can go bad and get you hurt."



RECOMMENDATIONS

Face the Tractor When Climbing Down
Hang On to Safety Rails
Slow Down, Don't Rush
Figure Out How to Call for Help

CHAPTER 6

FALL PREVENTION TIPS & RESOURCES



WEAR APPROPRIATE
GEAR, NO MATTER
HOW LONG YOU
PLAN TO BE OUTSIDE

BRING PHONE
AND LET PEOPLE
KNOW WHERE
YOU ARE

TREAT
SURFACES WITH
ICE MELT

PREPARE FOR ICE IN AREAS WHERE WATER IS KNOWN TO ACCUMULATE



Ice Safety: Adopt New Movements for Ice



Walk Like a Penguin:

- Take short, slow, flat-footed steps
- Keep feet under your center of gravity
- Keep hands and arms free to help adjust balance



Other Adjustments:

- When exiting a car, step DOWN not OUT
- Use handrails, avoid slopes
- Keep your head up and don't lean forward when walking

Use Additional Traction on Slippery Surfaces









FALLS ON THE FARM

RESOURCES

CHAPTER 1. INTRODUCTION TO FALLS

- 2014-2017 Iowa Trauma Registry Analysis (Falls on p. 5): https://gpcah.public-health.uiowa.edu/wp-content/uploads/2019/12/Iowa-Trauma-Registry-Ag-Surveillance-2014-17.pdf
- https://www.icd10data.com/ICD10CM/Codes/V00-Y99/W00-W19

CHAPTER 2. FALL RISKS ON THE FARM

- Elevated Platforms: https://nasdonline.org/7404/d002565/mi-face-report-horse-breeder-falls-11-12.html
- Vehicles: https://nasdonline.org/1672/d001572/tractor-operation-safety-preventing-falls-and-runovers.html
- Openings in the Ground/Floor: https://health.ny.gov/environmental/investigations/face/docs/20ny025.pdf
- Ponds/Lagoons/Wells: https://extension.psu.edu/farm-pond-safety

CHAPTER 3. PERSONAL RISK FACTORS

- https://www.betterhealth.vic.gov.au/health/healthyliving/farm-safety-falls
- Medications: https://www.health.harvard.edu/staying-healthy/medications-that-increase-your-risk-of-falling

CHAPTER 4. FALL PREVENTION: LADDERS

- See Ladder Safety Guidance, *Safe Use of Extension Ladders* and *Fall Prevention Wallet Card*: https://www.osha.gov/stop-falls/educational-resources
- Ladder Do & Don't List: https://osha4you.com/ladders/ladder-safety-dos-and-donts/

CHAPTER 5. FALL PREVENTION: GETTING OFF EQUIPMENT

- "Mount & Dismount" Tips: https://farmsafety.mo.gov/farm-equipment/tractor-safety/
- Tractor Fall Prevention Tips: https://nasdonline.org/1672/d001572/tractor-operation-safety-preventing-falls-and-runovers.html

CHAPTER 6. FALL PREVENTION: ICE

- Wintertime Falls Prevention (Materials): https://gpcah.public-health.uiowa.edu/materials-for-health-care-providers/
- https://www.dmu.edu/blog/2020/01/prevent-falls-on-snow-and-ice/

VIEW THESE LINKS FOR MORE INFORMATION & ADDITIONAL RESOURCES ON THE CONTENT PRESENTED IN THIS UNIT.