Safe Farm: Keep active farmers safe in later life

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Keep active farmers safe in later life

Agriculture, one of the nation’s most dangerous occupations, holds an even greater risk for senior farmers. In Iowa, 30 percent of the 1993-97 agriculture-related deaths (54 of the total 182 where age was known) involved a farmer 65 years of age or older. In fact, agricultural injury data over the last several decades consistently show a high proportion of cases that involve farmers in this age group.

The physical capabilities of older farmers vary by individual. While some people maintain good strength, flexibility, eyesight, and hearing well beyond age 65, others do not. In addition, these physical changes may occur gradually over the years, or in a relatively short period of time.

Older farmers, however, can continue to be safe and productive members of agricultural operations. The key is the ability of them and their families to recognize age-related risk factors, as well as the willingness to modify expectations and physical activity accordingly.

Age-related risk factors

Strength and flexibility. Even with powerful tractors and machinery, farmers need adequate muscle strength and mobility to safely complete a task. Both muscle strength and mobility decrease with age, but are important in many agricultural tasks. For example, strength and flexibility are needed to lift, carry, and load objects; feed and care for livestock; mount and dismount tractors and machinery; and climb ladders and stairs. Reduced strength and flexibility can result in changes in posture that increase the likelihood of sprains and strains. Farmers also may compensate for decreased physical capabilities by adopting unsafe work practices or taking shortcuts in established safe procedures.

Reduced strength and joint flexibility can increase reaction time by decreasing physical responses during an unexpected work situation. Quick reaction does not eliminate hazards that already exist, but a slow reaction can intensify the hazards and cause injuries that might not otherwise occur.

Vision. To safely interact with their environment, farmers must have good visual acuity, that is, the ability to recognize objects clearly at a variety of distances and in changing light conditions. This capability, however, tends to gradually decline with age. Objects must be closer and more light is needed to recognize an object. Farmers routinely work in situations that do not have adequate light, such as in fields at dusk or at night, or inside dimly lit barns and sheds.

Hearing. Everyone suffers some hearing loss as a result of aging. In addition to this normal hearing loss, farmers of all ages suffer from more noise-induced hearing loss than the general population. After years of exposure to tractors, farm machinery, and confined livestock, an older farmer may not be able to hear the warning signs of an approaching hazard.

Illness and disease. Age-related medical conditions also determine how safely an older farmer can complete work tasks. Some conditions, such as arthritis and rheumatism, affect joints. If the knees or hips are involved, a farmer will have reduced mobility, making it harder to climb on and off machinery and get out of the way of the potential livestock-
related injuries. If the fingers, hands, or arms are involved, reaction time also may be decreased by making it more difficult to manipulate tractor and machinery controls.

In addition to these illnesses, older farmers also are at risk for developing cardiovascular disease, cancer, and other conditions such as obesity. These conditions reduce strength and endurance, putting older farmers at risk when they attempt physically demanding tasks that they may have been able to safely handle in the past. Prescription medications often taken for these conditions, along with pain relievers, may further slow reaction time.

Depression
It has been estimated that 15 percent of adults over age 65 suffer from depression, a condition that may be especially true in rural populations. A number of situations could lead to an older farmer’s feelings of sadness, grief, or hopelessness: an uncertain economy, loss of a spouse and work partner, the inability to handle physically demanding tasks as well as one used to, lack of family members interested in continuing the operation, and declining health.

Learn to recognize symptoms of depression and seek medical help if symptoms last longer than two weeks. Everyone has occasional feelings of sadness, but depression is not a normal part of aging. Depression is an illness that responds well to a number of treatments. If untreated, depression will make other health problems worse and harm overall quality of life. Depression also increases the risk of work-related injuries to older farmers by distracting them from the tasks at hand.

Tractor risks
Tractor overturns are the leading cause of work-related deaths among older Iowa farmers. An analysis of five years of data collected by the Iowa Department of Public Health between 1993 and 1997 showed that 67 percent of the deaths to farmers over age 65 involved tractors. Only 39 percent of the deaths of younger farmers involved tractors. Of the tractor-related fatalities among older farmers, 61 percent (involving 19 people) happened after a tractor had overturned.

Of additional concern is the fact that farmers may take on maintenance and out-of-season tasks, such as mowing, as they get older and move away from daytime farm operations. In the past, these tasks may have been done with smaller and perhaps older utility tractors not equipped with rollover protective devices. Newer tractors, with enclosed cabs and ROPS, are much safer to operate. At minimum, retrofit older tractors with ROPS. It also is important that all safety shields are in place and function properly.

Prepared by Steven Freeman, assistant professor of industrial education and technology; Charles Schwab, extension farm safety specialist; and Laura Miller, Safe Farm editor. Design by Valerie King.

Formore information
For information and services related to Iowa, contact the Iowa Dept. of Elder Affairs, Clemins Building, 200 10th Street, Des Moines, IA 50309-3609; (515) 281-5187 [TTY for hearing impaired, (515) 281-5188]; and on the World Wide Web at: <http://www.ia.us/elderaffairs>. For general information, contact the American Association of Retired Persons (AARP) National Headquarters, 601 E. Street NW, Washington, DC 20049; (800) 424-3410 [TTY for hearing impaired, (877) 434-7598]; and on the World Wide Web at: <http://www.aarp.org>.

Answers to quiz: 1-False; 2-c; 3-e; 4-False; 5-True