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# IMPROVING THE **SAFETY** AND **HEALTH** OF AGRICULTURAL WORKERS AND FAMILIES

*through research, education and prevention*



## ONE HEALTH IN AGRICULTURAL SAFETY AND HEALTH



UMASH embraces a One Health philosophy that recognizes connections between human, animal, and environmental health when addressing occupational health and safety issues in agriculture.

# Addressing existing and emerging occupational health and safety issues in agriculture.



## CUTTING EDGE RESEARCH

### EMERGING INFECTIOUS DISEASES: THE RISK TO HUMAN AND ANIMAL HEALTH

The importance of human-animal interaction as a source of emerging infectious diseases is universally recognized. This UMASH research project analyzed long-term patterns of *S. aureus* colonization and infection of swine veterinarians.

#### ⇒ WHAT'S NEXT?

A new project funded in 2016 to build on the research  
**Longitudinal Study of Infectious Disease Risks at the Human-Swine Interface**

### OCCUPATIONAL EXPOSURES IN PORK PRODUCTION

UMASH has been evaluating how different pork production practices are related to airborne exposures that may be related to respiratory disease. The results will help guide producers and health and safety professionals in keeping people who raise pigs healthy.

#### ⇒ WHAT'S NEXT?

A new project funded in 2016 to build on the research  
**Optimizing Assessment of Virus-Containing Particles in Animal Agriculture**

## BUILDING PARTNERSHIPS



*"On our farm, we want to be known as a safe place to work. UMASH has been very helpful for us".*

- Farm Owner

- Continuing to build and sustain important relationships with agricultural producers, their workforce, and public health experts.
- Diversifying our resources and increasing key agricultural stakeholders' investment in a healthy and safety work force.



# Addressing existing and emerging occupational health and safety issues in agriculture.



## INNOVATIONS IN WORKER SAFETY TRAINING

### DAIRY STOCKMANSHIP - SAFE ANIMAL HANDLING

Proper animal handling reduces stress and potential injuries on the farm. UMASH produced a variety of safe animal handling training resources.

- » **Fact Sheets, Posters, Videos**  
*(available in English and Spanish)*



### NEEDLESTICK PREVENTION

Needlestick injuries are common and can be serious. UMASH produced needlestick prevention resources for farm workers and veterinarians.

- » **Fact Sheets, Videos, Webinar**  
*(available in English and Spanish)*



### BILINGUAL DAIRY WORKER SAFETY TRAINING

A successful health and safety model for immigrant workers in dairy that incorporates an OSHA-approved, train-the-trainer curriculum and utilizes *Promotores de salud*, or Community Health Workers on the farm.

- » **Curriculum, Posters, Comics, Video**  
*(available in English and Spanish)*



## KEEPING FARM VISITORS SAFE

Agritourism is growing in popularity. Protecting the safety of farm visitors is important! UMASH has developed resources to help farmers and agritourism operators keep visitors and families safe.

- » **Fact Sheets, Posters, Videos**
- » **Agritourism and Healthy Fairs Workshops**



# OUTREACH AND ENGAGEMENT

**UMASH works with people connected to agriculture and interested in the health of families and workers who produce our food.**

- Engaging producers, farm workers, and others in agriculture to consider all perspectives.
- Facilitating public forums on emerging or existing issues in agricultural safety and health to encourage discussion about how to address complex issues.
- Sharing new and existing safety resources, research updates, and events through a variety of communication channels.

## NIOSH AG CENTERS

UMASH is one of ten **Centers of Excellence in Agricultural Disease and Injury Research, Education, and Prevention** funded by the National Institute for Occupational Safety and Health (NIOSH). UMASH partners with the Ag Centers to promote health and safety in agriculture.

- US Ag Centers YouTube channel featuring ag safety videos  
[www.youtube.com/USagCenters](http://www.youtube.com/USagCenters)



## DID YOU KNOW?

- Farmers are 6 times more likely to die on the job.
- Ag workers injury rate is 40% higher than other US workers.
- Lost work results in higher costs for producers and consumers.
- All of these injuries are preventable.

UMASH is a multidisciplinary collaboration of five leading research and health care institutions bringing together unique and complimentary expertise.

**UNIVERSITY OF MINNESOTA**

School of Public Health



Minnesota  
Department  
of Health

**UNIVERSITY OF MINNESOTA**

College of Veterinary Medicine



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