



IN THEIR BOOTS

Addressing agricultural
safety and health



2017 YEAR IN

REVIEW



The National Farm Medicine Center will be a national resource, conducting high quality research, developing and delivering health and safety information, exploring innovative service models and effecting broad change to improve human health and safety associated with rural and agricultural work, life and environments.

FRAMING THE AG SAFETY DISCUSSION

Scientists and staff of the National Farm Medicine Center and National Children's Center for Rural and Agricultural Health and Safety participate as board members and advisors to numerous organizations, keeping abreast of emerging trends, disseminating new research findings and resources, expanding partnership opportunities and helping to frame the national discussion of agricultural safety and health.



New York Times reporter Jack Healy, center, visited the National Farm Medicine Center while reporting on the role of children working in agriculture. His article, "On Family Farms, Little Hands Steer Big Machines," was published Jan. 29, 2018. National media increasingly contact the Center for perspective on safety in America's most hazardous industry. Other requests for interviews in 2017 included the Wall Street Journal, Politico, Huffington Post, Associated Press, Bloomberg BNA and Gannett.

NATIONAL FARM MEDICINE CENTER STAFF

Barbara Lee, Ph.D.

Director, National Farm Medicine Center
Director, National Children's Center for Rural and Agricultural Health and Safety

Barbara Marlenga, Ph.D.

Research scientist – Injury prevention

Casper Bendixsen, Ph.D.

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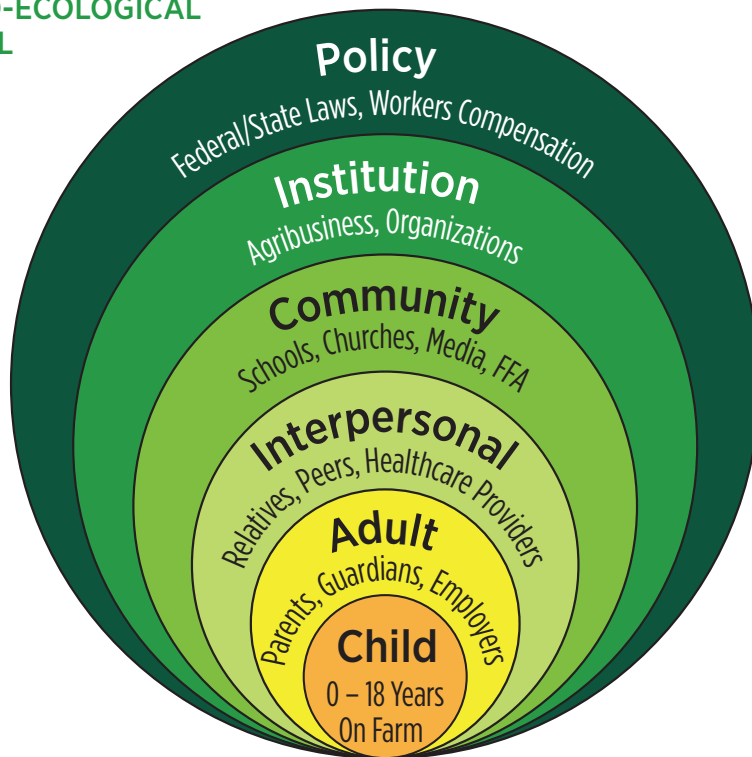
Center research administrator

SPHERES OF INFLUENCE

“Walking in the boots” of farmers and ranchers means we learn how they live and work so that our research and interventions have positive impacts on them and their families and employees. Our mission is to improve human health and safety associated with rural and agricultural work, life and environments. At the National Farm Medicine Center, we take to heart the importance of understanding issues from many perspectives to maximize the likelihood of successful research, education, training and outreach.

The socio-ecological model, often used in public health initiatives, has been the guiding principle behind much of the current and proposed work. The model depicts relationship-building at multiple levels, known as spheres of influence, as well as multiple interactions over time. Our projects involve fellow researchers, agribusiness leaders, insurers, lenders, policymakers, media and other farmers to increase the chances of long-lasting, positive safety changes. These multilevel and interrelated interventions have the potential of shifting the “culture” of agriculture to place greater emphasis on, and respect for, a “safety culture.”

SOCIO-ECOLOGICAL MODEL



Barbara Lee, Ph.D.
Director, National Farm
Medicine Center



We are pleased to share with you highlights of 2017 featuring a diversity of individuals and organizations that strengthen our capacity to change practices and save lives.



NRHA CHOOSES DR. LEE FOR NATIONAL HONOR

The National Rural Health Association (NRHA) selected childhood agricultural injury prevention leader Barbara Lee, Ph.D., as the recipient of its 2017 Outstanding Researcher Award.

FARM FAMILIES COME TOGETHER OVER SAFETY

"I grew up on a diversified dairy farm, became active in 4-H and joined FFA. I attended the University of Wisconsin-River Falls where I majored in agricultural education. While there I served a year as a State FFA Officer and a year as the Wisconsin Fairest of the Fairs. After graduation, I moved back to the farm and became a teacher in my home high school."

These were my opening words in every introduction. I never thought I would leave teaching. Then I happened upon a job description that called for my talents in keeping farm families safe.

Suddenly I was a staff member of the National Farm Medicine Center learning about its projects. One project stands out and takes me back to my childhood.

I remember when our family dug our manure pit. I knew when we were agitating from the smell when I stepped off the school bus.

It smelled "bad" but never did I imagine that it was "dangerous." The Biadasz project has made an impact on me. The Biadasz family is not much different from mine. They dug an outdoor, open pit. The children grew up on the farm and several of them moved on to start families while one son stayed behind to work the farm. That one son, Mike, couldn't wait for the work day to begin, and was guided by the theory that a person should "live like you will die tomorrow, and farm like you will live forever."

I wish I had met this family because of our similarities. However, I met them because Mike passed away from manure gas. Most farmers don't know how dangerous those gases can be, even in an open space. They just know manure is liquid gold as fertilizer. The Biadasz family is now dedicated to making sure all farmers know the awful truth.

This past July the family generously donated \$40,000 so farmers in Wisconsin can get a rebate if they rent manure gas monitors when pumping. Meeting them and working on this specific project really helped me realize that I made the right decision to leave classroom teaching and join others to teach the agricultural world about safety.

If you or any farmer you know needs a gas monitor, e-mail farmforeverrebates@gmail.com.



Melissa Ploeckelman
Outreach specialist



MIKE BIADASZ FARM SAFETY AND EDUCATION MEMORIAL FUND



The Biadasz Family of Amherst, Wisconsin donated \$40,000 to the National Farm Medicine Center (NPMC) and Marshfield Clinic Center for Community Outreach on June 9. With the help of Marshfield Clinic Health System Foundation, their donation established a Mike Biadasz Farm Safety and Educational Memorial Fund. Farmers can apply for a rebate program that encourages them to rent a portable gas monitor device while pumping manure that detects gas levels. This alerts them

when potentially lethal levels are reached. This rebate program will cover the cost for the monitors. Mike Biadasz died in August 2016 when he accidentally inhaled a lethal dose of hydrogen sulfide gas emitted from their farm's manure pit.

RURAL FIREFIGHTERS DELIVERING AGRICULTURAL SAFETY AND HEALTH

People who work in agriculture are eight times more likely to be fatally injured when compared to other professions. It remains the most dangerous occupation in the U.S. I grew up on a farm and ranch in Idaho, but I had no idea that agriculture was so hazardous. Not until I joined the faculty at the National Farm Medicine Center (NFMCC) did I learn about these cringe-worthy statistics. My work now concentrates on how rural communities can rally together to improve the health and safety of American farmers and ranchers.

While agricultural health and safety experts offer many solutions to everyday hazards, they are too few and often too separated from rural communities to be the sole deliverers of this knowledge. That is why we must bring together trusted members of the nearby rural community and provide them with simple, effective ways they can assist their farming and ranching neighbors.

The Centers for Disease Control (CDC) recently funded NFMCC's efforts to train rural firefighters in farm safety. In college, I worked and lived in a fire department, so when preliminary research with farmers revealed how much they trust their local departments, it made perfect sense. There are emergency responders in every rural county in the U.S. They are highly-trusted, trainable and are often closely-linked to local agricultural producers. The catch: They need training and tools so they can do more than react to farm emergencies.

During the next four years, NFMCC, in partnership with the University of Minnesota, Penn State Extension and the University of Washington, will work with fire departments and community/technical colleges throughout the upper-Midwest to train a core group of trainers for Rural Firefighters Delivering Agricultural Safety and Health (RF-DASH). These trainers will in-turn spread the tools and expertise to other departments and training facilities. The day-long curriculum can be taught within existing courses or made to be a stand-alone training. There are four modules: Introduction to agricultural emergencies, pre-planning and mapping for agricultural sites, farm hazard analysis and farm first aid.

Over the course of the next four years, we hope to see more rural emergency responders become leaders and practitioners of agricultural health and safety.



Casper Bendixsen, Ph.D.
Associate research scientist,
Cultural anthropologist



WISCONSIN INFANT STUDY COHORT (WISC)



WISC was renewed for another grant cycle, enabling it to follow 400 children from birth to the age of eight instead of just two years old. The project helps researchers to better understand how early life exposures like the farm environment directly contribute to healthier immune outcomes including fewer allergies and less asthma. WISC has now joined with 11 other cohorts in Children's Respiratory Research and the Environment Workgroup (CREW).

This new initiative includes studies from mostly urban and suburban areas throughout the U.S. As part of CREW, the WISC study will share and compare information about early life environmental exposures and their effects on children's health, said Marshfield site principal investigator Dr. Cap Bendixsen. WISC is the only CREW participant located in rural America. WISC could be the key to harnessing the immune-enhancing power of farms and extend this benefit to children who are most at-risk. Asthma is one of the most expensive pediatric conditions, costing families and the public as much as \$56 billion each year.

THE MAKINGS OF A HEALTHY CHILDHOOD

What makes a healthy childhood? Healthy food, clean air, clean water, safe housing – there are many elements that merge to provide the fertile ground for a healthy upbringing, and there are a wide range of social factors that can affect a family's ability to get or maintain those staples. Among agricultural worker families, poverty; cultural and/or language barriers; fear of immigration status; and, for some, a mobile lifestyle build great walls that keep parents from being able to provide the basics for their families even if they work multiple jobs. But clinicians can help.

Protecting Children While Parents Work in Agriculture aims to bring disparate parts of the community together to provide the children of agricultural employees with safe places to learn and play. As a mother of a young daughter, I am constantly preoccupied with my daughter's well-being. Safety, education and socialization are always at the forefront of my mind. I am personally invested in this project because I know that my worries are not unique, and I can only imagine how these concerns are compounded by the myriad challenges facing farmworker families, especially those that may be undocumented.

Agribusiness, childcare providers and farmworker parents all play a vital role in creating a culture of safety for children in agricultural communities. Through our research and field work, we have come to realize that the resources for safe, quality, off-farm childcare are available. The challenge is facilitating access and overcoming challenges associated with connecting families in need with care providers. This project creates space for the discussion that needs to take place in order to reduce child injury and illness, increase opportunities for education and remove the distraction of children in the workplace.



**Juliana
Simmons, MSPH, CHES**
Program manager



CHILDHOOD AGRICULTURAL SAFETY NETWORK (CASN)



Membership includes insurance professionals, agricultural educators and more. The 2017 in-person meeting was held in Logan, Utah, continuing an annual tradition of meeting at the International Society for Agricultural Safety and Health (ISASH) conference, a time when members can share reports, identify areas of common interest and coordinate efforts. CASN shared additional safety information this year via two webinars, "Accessing and Using Free Resources for Teaching Fall and Electrical Safety" and "Children and Youth: Living, Working and Playing Safely on Farms." Both webinars are still available online at www.childsafety.org. To join CASN, contact Marsha Salzwedel, M.S. at salzwedel.marsha@mcrf.mfldclin.edu.

Membership includes insurance professionals, agricultural educators and more. The 2017 in-person meeting was held in Logan, Utah, continuing an annual tradition of meeting at the International Society for Agricultural Safety and Health (ISASH) conference, a time when members can share

CULTIVATING SAFETY ON THE FARM

Our farm was on a side road, and everyone around us was either family or long-time neighbors. We had many neighborhood kids, so finding teams for kickball and softball was no problem. We'd pedal our bikes to the lake to go swimming. And of course, we worked. Baling hay, feeding cows, picking potatoes, collecting maple sap, dragging out Christmas trees – the type of work changed with the season, but there was always work to do.

Amongst all this work, no one talked about farm safety. The day my 2-year-old brother fell off the front of the hay wagon and was run over, I had no idea that he shouldn't have been on the wagon. A couple years later, when my teenage cousin got his arm caught in the hay baler, I didn't realize that he should have called an adult rather than try to fix the baler himself. As a child, I didn't see the danger of the farm; I saw one really big playground where I sometimes had to work too. Luckily, my brother and my cousin weren't permanently injured.

Looking back, I shudder at some of the things we did. As an adult working as a youth agricultural safety specialist, lots of child agricultural injury and fatality “accidents” cross my desk. I've learned how truly dangerous the farm worksite is.

For youth working in agriculture, the number of fatalities is higher than in all other occupations combined. Many of these injuries and deaths are associated with youth performing work that does not match their developmental abilities.

To address this problem, the National Farm Medicine Center/National Children's Center for Rural and Agricultural Health and Safety developed the Agricultural Youth Work Guidelines (cultivatesafety.org/family-farms). The guidelines can be used by adults to determine if a youth is able to safely perform a job, learn about supervisor responsibilities and to determine hazards and protective strategies specific to various jobs.

These guidelines help us safeguard our farm kids, while enabling them to reap the benefits of living and working on farms. If the guidelines had been available when I was young, perhaps my cousin and brother wouldn't have had to learn safety the hard way.



Marsha Salzwedel, M.S.

Youth agricultural
safety specialist



AGRICULTURAL YOUTH WORK GUIDELINES RELEASED

The National Children's Center released its Agricultural Youth Work Guidelines in June. The updated and interactive guidelines are built upon the 1999 North American Guidelines for Children's Agricultural Tasks (NAGCAT), and are intended to assist parents and others in assigning appropriate tasks for youth on farms and ranches. The voluntary guidelines are based on research in childhood growth and development, agricultural practices, principles of childhood injury and agricultural and occupational safety.

Organizations and people on the project steering committee included parents, the American Farm Bureau Federation, the National FFA Association, 4-H, the U.S. Department of Agriculture, the National Institute for Occupational Safety and Health (NIOSH), COUNTRY Financial and others. The new guidelines can be found on www.cultivatesafety.org/work in an interactive format, as well as in read-only and print versions. Support came from CHS Foundation, NIOSH and generous donors to the National Children's Center.





GRAIN HANDLING SAFETY COALITION VIA CASN

Marsha Salzwedel, M.S., youth safety specialist, represents the National Children's Center on the Illinois-based coalition, which is dedicated to preventing injuries across the grain industry through education and outreach. Salzwedel served as assistant director and writer on a short film released this past year, "Seconds to Tragedy," inspired by the 2010 Mount Carroll, Illinois disaster in which two teens died in a grain bin accident. Salzwedel is also featured on camera, discussing elements of the coalition's Stand T.A.L.L. (Talk, Ask, Learn, Live) curriculum, designed to prevent such incidents. The coalition took its message to the National FFA Convention in October, interacting with more than 4,000 members, advisors and guests.



INTERVENTION THROUGH INQUIRY: UNDERSTANDING BEGINNING FARMERS AND RANCHERS

This National Children's Center project seeks to increase beginning farmers' and ranchers' knowledge of safety and injury prevention, especially with respect to the children they raise, hire and host on their farms and ranches. The National Children's Center partnered with the Midwest Organic and Sustainable Education Service (MOSES) to present safety information alongside a farm family at the MOSES Annual Conference. The conference is the largest and longest-running conference dedicated to organics in the nation. NCCRAHS/NFMC was represented for a second season at the "In Her Boots" events. These events aim to teach women who are beginning organic farmers how to farm sustainably, as well as help connect them to other women organic farmers. Safety resources for adults and children were presented at four events spread across two states.

PROTECTING CHILDREN WHILE PARENTS WORK

This joint collaboration of the National Children's Center and Migrant Clinicians Network has drawn the attention of growers who are trying to address a labor shortage by getting more women involved in the farm workforce. A major obstacle has been lack of child care. The project's early survey work with farm operators and social services providers indicates that growers are willing to work in partnership to identify and help provide child care options. Vegetable Growers News wrote, "It appears that farmworker parents are attracted to regions with robust child care offerings."

INTERN JOINS NFMC FOR SUMMER



Rachael Rol served as an intern in the NFMC and NCCRAHS offices this summer. She conducted interviews with young farm couples in the central Wisconsin area

to identify their attitudes towards child safety and safe-play areas. Originally from the Marshfield area, Rol is finishing her senior year at the University of Wisconsin-Madison, pursuing a double major in Neurobiology and Spanish, and plans to attend medical school upon graduation.

Since 1974, Marshfield Clinic Health System has hosted over 200 college students for the Summer Research Internship Program (SRIP). This unique program is completely donor-funded.

MICROBIOME



The first study showing that the community of bacteria found on bodies of healthy dairy farmers is more diverse than non-farmers has been published by Marshfield

Clinic Research Institute in the journal PLoS ONE. This microbial diversity is believed to protect farmers against allergic and autoimmune diseases, said lead author and NFMC collaborator Sanjay Shukla, Ph.D. Samples were collected from the noses and mouths of the research participants: 21 dairy farmers and 18 non-farmers working office-based jobs. This study is providing a foundation for research into the farm-as-medicine concept, which examines both environmental risks and the health-building aspects of farm life.

ENHANCING SKILLS AND POLICIES TO PROTECT YOUNG AGRICULTURAL WORKERS

Supervisors of young agricultural workers ages 14 to 20 have the opportunity to improve the health and safety of their employees.

“While supervisors may understand working in agriculture is dangerous and that their employees are at risk of injuries, they may not believe that they can positively impact young workers or have the skills to do so,” said Diane Rohlman, Ph.D., co-principal investigator of this Children’s Center project.

To address these needs, a free online training was developed in both Spanish and English by a University of Iowa team. Content on substance use, fatigue and cell phone use is paired with existing safety resources and model safety and health policies for employers. The training is currently being tested with supervisors nationwide and is available at www.agosh.org.

JOURNAL OF AGROMEDICINE



The Journal of Agromedicine, edited by the National Farm Medicine Center, is the world’s leading source of peer-reviewed agricultural safety and health information. The quarterly journal’s content is used by professionals in safety and health, medicine, education, engineering, anthropology and other fields to address the well-being of those who work in production agriculture. Mainstream media also cite the journal, such as a November article on small-farm safety distributed nationally by the Associated Press. The journal continued its tradition of devoting issues to innovative approaches in safety and health. The October issue, “Socio-ecological approaches for improving agricultural safety and health,” examined the complex interplay of farmers’ safety behavior and the change agents around them. Dr. Matthew Keifer is editor-in-chief, assisted by Scott Heiberger who is managing editor and Barbara Lee who is senior associate editor. The journal bade farewell to Marie Fleisner, who embarked on a new career after 38 years with the Marshfield Clinic Health System, and welcomed back Kathie Smith.

STRENGTHENING ORGANIZATIONAL CAPACITY

This Children’s Center project leverages relationships with youth serving organizations, insurance companies, media, agricultural bankers and others to expand the adoption of best practices to protect children from agricultural injuries and deaths. The strengthening organization capacity project continued to connect with organizations through presentations, workshops and webinars. Through these connections, the Children’s Center is able to raise awareness of child agricultural injuries/fatalities and prevention strategies.

MINI-GRANTS

Receiving the Children’s Center mini-grant for the 2018 fiscal year was the Agriculture and Land-based Training Association (ALBA) for its Children’s Agriculture Safety Education (CASE) project. ALBA is based in the heart of California’s Salinas Valley. They have provided education and farm development to farmers – primarily immigrant farm laborers.

With the Children’s Center grant, ALBA will train 50 aspiring and current farm owners on the best practices to reduce the safety risks to children. The deliverables of the project will include three workshops on child agriculture safety, the creation and distribution of a reference tool on best practices, new signage around ALBA’s training site and an updated Farmer Policy for ALBA’s organic farm incubator.

FILLING GAPS IN CHILD AGRICULTURAL INJURY DATA

In the U.S. there is no comprehensive national data system for child agricultural injuries, fatalities or hospitalizations. Thus, knowledge gaps exist about injury patterns that could potentially provide a targeted focus for prevention efforts.

The goal of this National Children’s Center project is to explore the most promising, existing public health surveillance systems containing a “farm” location variable to determine their utility for primary prevention.

This project, led by Dr. Barbara Marlenga, looked at total records of ambulance runs, child injuries requiring hospital stays and Emergency Department visits and child deaths nationwide for 2009 and 2012. Findings were published in the Journal of Rural Health.

Most notable was the absence of information on injury circumstances such as “why” and “how” the injury occurred, which is necessary in planning and evaluating prevention initiatives. Dr. Marlenga and her team recommend that any child agricultural injury data collection tool formally incorporate a structured narrative so that circumstances leading to injury events are documented.



AgInjuryNews.org

A growing assemblage of injury reports derived from media, obituaries, police reports, social media and other publicly available data

90,000

news articles screened and
590 loaded

16,851

page views from
25 countries



Wisconsin ROPS Rebate Program

200

rollbars put
on tractors since
program began
2013

28 ro
in 20



Filling the Gaps in Child Ag Injury Data

Exploring public health data systems to determine their utility for assessing the health and safety of children in agricultural settings, thus "filling the gaps"

26 million ambulance runs
analyzed

1.5 million injuries requiring
hospital stays



Beginning Farmers and Ranchers

Seeks to increase beginning farmers' and ranchers' knowledge of safety and injury prevention, especially with respect to children

1,422 miles
traveled for
"In Her Boots"

4 states reached



2 peer-reviewed
journal articles

WISC/CREW (WI Infant Study Cohort)

Tracking children's exposure to farm animals and farm-related microbes, measuring development of cells involved in immunity and resistance to illnesses

203 active
participants

16,504 samples
collected

Rural Firefighters Delivering Agricultural Safety and Health

Improving farmers' access to health and safety consultation

12 attended first
train-the-trainer
workshop

48,893
square miles
covered by
firefighters/EMS

3,724 miles
travelled by RF-
DASH Principal
Investigators

Journal of Agromedicine

World's leading source of agricu
research, edited by NFMCC since

77 papers
submitted in
2017

20 co



Program

rollbars
2017



99%

effectiveness of a rollbar with seat belt in preventing fatal injury in an overturn

NFMC Skin Cancer Screenings

88 screenings at Wisconsin Potato and Vegetable Grower Association meeting

Since 2011:

1,460 total persons screened

11 presumed cancers found

80+ presumed cancer cases discovered

Communications

7 websites hosted

45 media calls for interviews

3 Facebook pages updated, 726 posts, 239,691 reaches

14 media releases sent out



Farm Safety Check

Quick monthly checklist review with UMASH (Upper Midwest Ag Safety and Health) Center to identify and fix potential hazards.

5 states



8 presentations

12 checklists created

Agricultural Youth Work Guidelines

Newly created interactive guidelines help determine if a youth is ready to perform a job

22 guidelines live on website; more to come

290 total prints

807 total interactions

398 total reads

Outreach

28 events

4,789 connections made

3,790 center resources distributed



ultural safety and health
2004.
untries



77 reviewers utilized



National Farm
Medicine Center

YOUR GIFTS AT WORK

Supporting farm families through Marshfield Clinic Health System Foundation

Farmers are strong, tough and hard-working. Thanks to support from people like you, the National Farm Medicine Center can work even harder to keep farm families healthy and safe.

Through gifts to Marshfield Clinic Health System Foundation, individuals and organizations can invest in the National Farm Medicine Center's important work. The National Farm Medicine Center relies on philanthropy to fund ongoing agricultural health and safety research, including:

- Integrated pediatric primary care and child farm safety
- Microbiome studies
- Skin cancer screenings
- Veterans to Farmers
- Wisconsin Infant Study Cohort (WISC)
- Wisconsin Rollover Protective Structure (ROPS) Rebate Program
- Gas Monitor Rebate Program
- Summer research internship program
- ... and much more.

**2017
Total Donations:
\$260,391**

For information regarding how to support the important work of the National Farm Medicine Center, please contact Matt Faber at 715-387-5901 or faber.matt@marshfieldclinic.org.

Thank You to Our 2017 Donors

\$5,000 and above

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Mr. and Mrs. David Webb
Mark and Rosemarie Weber
Weiler Transportation, LLC
Mr. and Mrs. Douglas Wenzlaff

Your support keeps farmers safer.

AUCTION OF CHAMPIONS

Support for the National Farm Medicine Center's critical work promoting farm safety and research was strong at the 2017 Auction of Champions, with more than \$260,000 raised. More than 300 people attended the event at RiverEdge Golf Course near Marshfield. This annual gala is hosted by Marshfield Clinic Health System Foundation.

Since the first auction in 1982, it has raised nearly \$4 million.

"The Auction of Champions continues to highlight champions in the community, champions in giving and champions to the agricultural industry," said Tiffany Halan, director of operations and special events for Marshfield Clinic Health System Foundation.

This year's Fund-a-Need auction was the big winner of the night with a record-high \$50,000 being raised to support the Mike Biadasz Farm Safety and Education Memorial Fund. This fund honors the memory of Mike Biadasz of Amherst who died at age 29 in 2016. He was overcome by fumes while agitating a large outdoor manure pit on his family's farm. Farmers can apply for a rebate that partially covers the cost for renting a portable gas monitor device that detects gas levels and alerts them when potentially lethal levels are reached.





The **AgInjuryNews.org National Steering Committee** held its first in-person meeting April 27 in Minneapolis to provide feedback on how best to leverage the database containing nearly 3,000 injury articles. This initiative locates, categorizes and captures injury and fatality incidents into a centralized, publicly accessible database.



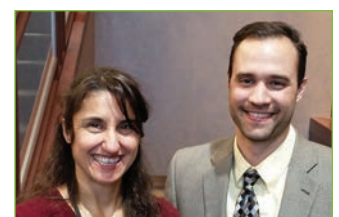
The Wisconsin Infant Study Cohort (WISC) is the only rural birth cohort in the nation, making it especially important to researchers. WISC leader **Dr. James Gern**, University of Wisconsin-Madison School of Medicine and Public Health, visited and met with the Farm Center's WISC Principal Investigator Casper Bendixsen and Marshfield Clinic Research Institute scientists May 3. Dr. Gern shared preliminary results indicating that farm kids have less respiratory illness and atopic dermatitis.



Dennis Murphy, Ph.D., Penn State professor emeritus and advisor on the Rural Firefighters Delivering Agricultural Safety and Health (RF-DASH) project, reviews the Farm Safety Check with some of the trainers in attendance. Dr. Murphy; Pittsville, Wisconsin Fire Chief **Jerry Minor**; former National Farm Medicine Center Director **Matt Keifer, M.D.**; and Penn State's **Davis Hill, Ph.D.**, all visited central Wisconsin twice in 2017 to work on RF-DASH. They

first visited June 7 – 9 with beautiful weather, then returned Nov. 4 during a blizzard to host and present the first train-the-trainer for RF-DASH.

Conversations are occurring over the distractions associated with technology usage, especially while driving or operating equipment. **Serap Gorucu, Ph.D.**, Penn State University, discussed her research on technology-based distractions among farm youth at a seminar hosted by NFMC on Dec. 6.





NATIONAL CHILDREN'S CENTER FOR RURAL AND AGRICULTURAL HEALTH AND SAFETY (NCCRAHS)

- Childhood Agricultural Safety Network (CASN)
- Filling Gaps in Child Agricultural Injury Data
- Grain Handling Safety Coalition via CASN
- Enhancing Supervisors' Skills and Employer Policies to Promote and Protect the Health of Young Agricultural Workers
- Integrating Safety into Agritourism
- Intervention through Inquiry: Understanding Beginning Farmers and Ranchers
- Mini-Grants
- Ag Youth Work Guidelines
- Protecting Children While Parents Work
- Saskatchewan Farm Injury Cohort Study
- Strengthening Organizational Capacity

NATIONAL FARM MEDICINE CENTER (NFMC)

- Integrated Pediatric Primary Care and Child Farm Safety
- Journal of Agromedicine
- Microbiome
- Skin Cancer Screening
- Veterans to Farmers
- Wisconsin Infant Study Cohort (WISC)
- Wisconsin Rollover Protective Structure (ROPS) Rebate Program

UPPER MIDWEST AGRICULTURAL SAFETY AND HEALTH CENTER (UMASH)

- Facilitating Return to Work for Injured and Ill Animal Agriculture Workers
- Farm Safety Check
- Quality of Life with Robotic Milking Systems
- Rural Firefighters Delivering Agricultural Safety and Health (RF-DASH)
- Seguridad en Las Lecherías (Safety in Dairies)
- Telling the Story of Agricultural Safety
- Tickborne Disease Risk for Agricultural Workers and their Families in the Midwest

CENTRAL STATES CENTER FOR AGRICULTURE SAFETY AND HEALTH (CS-CASH)

- Farm Mapping to Assist, Protect and Prepare Emergency Responders (Farm MAPPER)
- Identifying the Sources of Stress and Prevalence of Anxiety and Depression Symptoms Among Young Farmers and Ranchers in the Midwest
- Improving Safety and Health in the Cattle Feed Yard Industry

AGRICULTURAL SAFETY AND HEALTH COUNCIL OF AMERICA (ASHCA)

- AgInjuryNews.org
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ACKNOWLEDGMENTS

The National Farm Medicine Center expresses its appreciation to the organizations and individuals that enable NFMC to stay ahead of evolving health and safety concerns in agriculture.

The following federal grants provided programmatic support in 2017. National Institute for Occupational Safety and Health (CDC/NIOSH) provided NCCRAHS Award U5OH009568; UMASH Award U54OH010170; CS-CASH Award U54 OH010162. National Institute of Health provided WISC/CREW 4U19A104317-04/UG3 OD023282

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