



Marshfield Clinic[®]
Research Institute



Research MATTERS

July 2018

Preview

- 3 MCRI Welcomes New Staff**
- 7 Honored Recipients**
NFMC receives 2018 Friend of Agriculture Award
- 8 Celebrations**
MCRI staff take time out for appreciation
- 9 IRB Wishes Chair Farewell**
Stu Guenther retires once more
- 10 Continuing Education**
CEU Workgroup Established
- 11 Publications**
How EHR data can improve the diagnosis of rare genetic diseases
- 15 STEM, PI**
CCEPH Epidemiologists Run 'Disease Detectives' Event at Wisconsin Science Olympiad



Director's Report

Amit Acharya, B.D.S., Ph.D.
Executive Director

"Time flies by when you are having fun."—Albert Einstein

One year has gone by in a flash since I moved into the office of MCRI Executive Director. As I reflect on the past 12 months, it has been a year of growth and several changes on many fronts at our health system as well as within MCRI. Unique research opportunities have come our way and a tremendous amount of work by our MCRI teams is ongoing to better support these initiatives. If you have not yet read the 2017 MCRI Year in Review, I encourage you to do so and feel proud of all of our collective accomplishments. As we all know, addressing new challenges and finding effective solutions are part of any growth process. It takes a coherent culture where individuals and teams come together to embrace the core values and move the organizational vision and mission forward. I am witnessing this sense of camaraderie and willingness to making positive changes to better support our growth at our Research Institute. I want to acknowledge and say thanks for all the heavy lifting that is going on behind the scenes by our MCRI leaders and staff to make our organization a better and fun environment to work within. People like all of you are the reason I look forward to coming into work every morning. It is an honor to be part of MCRI.

"Things don't matter, people do"-Rosie Thomas.

As you can see from this edition of *'Research Matters'*, there are a lot of new initiatives and many new faces at the Research Institute. I want to welcome all the new staff to the MCRI family and look forward to meeting every one of you. On behalf of MCRI, I would also like to thank Stuart (Stu) Guenther for his invaluable service to our Research Institute and IRB for the last two years. He stepped out of retirement to serve as the Chair of our IRB. Combined with Stu's previous service to the IRB which began in 1987, he served many years as a member, four years as Chair and 17 years as the Vice-Chair for a total of 26 years committed to the IRB. I wish Stu well. We are also very fortunate to have an expert like Dr. Richard Dart oversee our IRB activities. I am deeply indebted to both of these gentlemen for their service. I am also thankful for the service provided by Lori Scheller as our IRB administrator. I am very appreciative of Linda Jaros stepping in as the interim IRB administrator until we identify our next IRB administrator. With Dr. Dart's and Linda's expertise we are in very good hands.

I am a firm believer that it is not only important to recruit excellent people for the success of our organization, it is equally important for us to retain our high performing staff. Developing career growth plans and professional development opportunities are a must as we move forward. I am aware of several MCRI leaders who are diligently working on developing such career paths and professional development opportunities for those roles that may have not been focused on in the past. I want to congratulate Kate Barnes, Dr. Jeremy Pomeroy and Dr. Bryan Weichelt, who are all starting a new phase in their career at MCRI and wish them success.

Engaging and giving back to the community that we live in is an important service. I am so proud of the many MCRI teams who continue to actively engage and give back to our communities. Epidemiologists from the Center for Clinical Epidemiology and Population Health joined forces with many other volunteers to provide their expertise and time to support the STEM educational efforts at the 2018 Wisconsin Science Olympiad. Another group of scientists and staff are actively mentoring and providing research experiences for our 2018 MCRI Summer Research Internship Program (SRIP). I would encourage you all to attend the SRIP symposium on August 9 in Froehle Auditorium, where you can hear our interns present their research. Thank you so much for your invaluable contributions to our community and creating such an awesome opportunity for these young professionals who will go on to doing some amazing things in their lives. On another note, the Marshfield Area Chamber of Commerce and Industry honored the National Farm Medicine Center with its "2018 Friend of Agriculture Award," June 1, during the Mayor's Dairy Breakfast at the Central Wisconsin State Fairgrounds in Marshfield. I want to congratulate our NFMC staff and scientists on this key recognition and for the important work that they do in our community.

"Be the change in the world you want to see."-Gandhi

MCRI Welcomes New Staff

Scott Olson, M.D.

Marshfield Clinic welcomes pediatric infectious disease specialist **Dr. Scott Olson**.



At Marshfield, Dr. Olson will split his time between outpatient visits in the clinic, inpatient consultations at Marshfield Children's Hospital and research at Marshfield Clinic Research Institute in the Center for **Clinical Epidemiology & Population Health**.

[Read more](#)

Emily Redmond

Emily Redmond joined the **National Farm Medicine Center** as a research coordinator on May 28, 2018.



Eleanor Stockheimer

Eleanor Stockheimer joined the **Center for Human Genetics** as a study coordinator.



Eleanor previously worked on the influenza study as a study coordinator prior to joining CHG. She received her Certified Nursing Assistant degree from Mid-State Technical College. During her studies, she developed a passion for research and was drawn to the precision medicine initiative with the hope of changing the future and improving health for the generations to come. When she is not working, Eleanor enjoys spending time outside with her family and gardening.

Janet Southworth

Janet Southworth joined the **Center for Human Genetics** as a program assistant.



Janet will be doing community engagement and marketing for the *All of Us, Wisconsin* project. She received her Bachelor of Science degree in General Studies with a Business emphasis from UW-Stevens Point. Janet has a long history of helping others with their health care needs, housing needs and health coverage needs. She transferred from Security Health Plan where she worked as a Customer Service Agent assisting Medicare Advantage and FHC members with their insurance coverage. In her new position, Janet hopes to continue helping others by promoting awareness of the All of Us Research Program to improve the health of future generations. In her free time, she enjoys time with her family (husband, adult daughter and son), sporting events, health and fitness, cooking and baking and music.

MCRI Welcomes New Staff (cont'd)

Keith Gilge

Keith Gilge joined the **Center for Human Genetics** as a research coordinator associate.



Keith received his Associate of Arts and Sciences degree through UW-Marshfield/Wood County; he is currently working towards his bachelor's degree in Arts and Sciences with a concentration on Health & Wellness and Business. Keith spent the past two seasons with the CCEPH working on a variety of studies. He also leaves behind an Assistant Manager position of a lawn care and snow removal company where he worked for nearly 8 years. In his spare time, Keith enjoys spending time with his family and doing many outdoor activities and sports.

Thomas Rose

Thomas Rose joined the **Cancer Care and Research Center** as a clinical trials assistant on April 23.



Thomas is an internal candidate who transferred from Phlebotomy. Thomas will be located in GR2.

Alexandra Ott

Alexandra (Allie) Ott joined the **Clinical Research Center** as a research coordinator associate on May 14.



Allie holds a bachelor's degree in History from the UW-Stevens Point. She previously worked as a client service analyst with Infogroup.

Cindy Brown

Cindy Brown joined the **Cancer Care and Research Center** as the administrative secretary on May 7.



Cindy is a combination internal/external candidate. She was working part time on 8N in addition to working full time as an administrative assistant outside MCHS. Cindy will be located in 1R5.

Amanda Genteman

Amanda Genteman joined the **Cancer Care and Research Center** as a clinical trials assistant on May 20.



Amanda is an internal candidate who transferred from the Ophthalmology Department. Amanda will be located in GR2.

MCRI Welcomes New Staff (cont'd)

Joseph Eddy

Joseph (Joe) Eddy joined the **Clinical Research Center** as a research coordinator associate on March 12.



Joe holds a bachelor's degree in Agribusiness/Animal Science from UW-River Falls. He also has a master of business administration from the University of Phoenix-Milwaukee. Joe has prior experience working within MCHS as a credit balance auditor. He joins Kathy Mancl working primarily on neurology clinical trials.

Dyan Friemoth

Dyan Friemoth joined the **National Farm Medicine Center** as a department clerk on February 5.



Tammy Gault

Tammy Gault joined the **Clinical Research Center** as a research coordinator associate on February 19.



Tammy holds a bachelor's degree in Health Sciences & Business from UW-Marshfield/Wood County. She has over 11 years of experience working as a certified nursing assistant. Tammy's experience working with patients and physicians will serve her well in her new role within multispecialty research. She joins Sandy Freeman and Krystin Rendell working primarily on infectious disease protocols.

Evan Ellis

Evan Ellis joined the **Office of Research Computing and Analytics** as a programmer/analyst. He graduated from UW-Eau Claire with a degree in Computer Science in May of 2017. Before joining MCRI, he worked as a programmer/analyst at MCHS-IS for one year, and was also an intern during the summer before his senior year of college.

Josh Mertz

Josh Mertz joined the **Office of Research Computing and Analytics** team on February 5.



Josh is a CIS Graduate from the UW-Stevens Point in 2017. He has previous work history with MCHS during college as a janitor followed by completing a programming internship with MCHS IS working on new and legacy EMR applications. He has experience in many different technologies and coding languages and looks forward to putting these skills to use supporting technology development in the research community. He will be supporting the many web and hub related projects for MCRI.

MCRI is currently recruiting for several positions. Many are eligible for an ERP bonus if your referred candidate is selected. Applicants should visit HR's [Career Opportunities](#) webpage to apply.

MCRI On The Move

Jeremy Pomeroy, Ph.D.



Jeremy Pomeroy, Ph.D., will have a joint appointment in both CCEPH and CRC beginning July 1. His primary appointment will be in CRC, allowing for greater time on BBS activities along with other clinical research projects. His office will remain in CCEPH, and CCEPH will continue to support his current extramural research projects.

Bryan Weichelt, Ph.D.



Bryan Weichelt, Ph.D., has been promoted to associate research scientist within NFMCC.

Kate Barnes, M.S., M.P.H.



Kate Barnes has been promoted to project manager within NFMCC.

Congratulations

National Farm Medicine Center

Director Barbara Lee, Ph.D., has been appointed the holder of the Dean Emanuel Endowed Research Chair. Revenue from this endowment, established in 1999, is available for supporting and expanding multidisciplinary research programs, and sustaining and expanding ongoing relationships with clinical providers, external research collaborators and nationally renowned leaders in agromedicine. The previous holder of the chair, former NFMCC Director Matthew Keifer, M.D., drew support for his time as editor-in-chief of the *Journal of Agromedicine*; several on-farm safety audits via the Agricultural Safety Consulting program; a preliminary study of safety in cranberry operations; refinement of the Farm Cohort within the Marshfield Epidemiologic Study Area (MESA); and a published study of deer hunters and tree stand falls in Wisconsin.



Scott Heiberger, Ph.D.

The International Society for Agricultural Safety and Health (ISASH) has selected **Scott Heiberger as President-Elect**. Scott has been on the ISASH Board of Directors for more than four years and is a recognized leader in the organization – the largest professional society of agricultural safety specialists in the world. Scott is nationally recognized as the “go-to” journalist/communicator when it comes to agricultural safety/health.



Awards

NFMC Receives 2018 Friend of Agriculture Award

The Marshfield Area Chamber of Commerce and Industry (MACCI) honored the National Farm Medicine Center with its “2018 Friend of Agriculture Award,” June 1, during the Mayor’s Dairy Breakfast at the Central Wisconsin State Fairgrounds in Marshfield.

Making the presentation was Sheila Harsdorf, secretary of the Wisconsin Department of Agriculture, Trade and Consumer Protection.

“It is such an honor to accept this on behalf of our National Farm Medicine Center team and Marshfield Clinic Health System,” said Barbara Lee, Ph.D., director of the Farm Center. “We rely on farmers and the community to make our research meaningful, so that it has an impact on agricultural safety and health. We feel privileged to have that relationship, and to receive this award.”

Joining the Farm Center team at the presentation were Health System CEO Susan Turney, M.D. and Chief of Staff Melissa Breen.

Since 2007, MACCI has recognized a family, business or organization that strongly supports agriculture in the Marshfield area.



Celebrations

CRC Celebrates Patient Experience Week

April 23-27 was Patient Experience week!

To celebrate, Corporate Education's Patient Experience Educators and IQIPS Patient Experience staff visited departments around the system with 'pop-up' celebrations (shared candy with staff and took pictures). The selfie sign asks how each of us helps our patients understand their health care. [Read more](#)



Clinical Trial's Day May 21

The importance of the clinical trials performed at Marshfield Clinic Research Institute is evident. At any time, the Research Institute is performing more than 100 clinical trials across Marshfield Clinic Health System in its big and small centers alike.

[Read more](#)



CCBI Celebrated...

...the beginning of spring by having *Haft-Seen* tabletop, which is a part of the tradition in celebrating Iranian New Year, also known as the *Persian New Year*, called *Nowruz*. Nowruz is the day that spring begins in the Northern Hemisphere. The exact moment that the Earth enters the vernal equinox, which leads to the same lengths for night and day, is calculated and families gather together to celebrate. Several ethnolinguistic groups from Central Asia to the Black Sea Basin (and including the Balkans) have celebrated Nowruz for over 3,000 years.

Haft-Seen is an arrangement of seven symbolic items traditionally displayed at Nowruz. The primary items are:

- Sabzeh – wheat, barley, mung bean or lentil sprouts growing in a dish, a symbol of **rebirth**,
- Samanu – Sweet pudding made from wheat germ, a symbol of **wealth and abundance**,
- Senjed – Dried Persian olive, a symbol of **love**,
- Seer – garlic, a symbol of **medicine and good health**,
- Seeb – apple, a symbol of **beauty and vitality**,
- Somac – a symbol of **sunrise, or light overcoming dark**,
- Serkeh – vinegar, a symbol of **age and patience**.

People decorate their table with respect to their family beliefs, tradition or for the sake of completeness, with additional items such as holy and/or poetry books, a mirror with two candles and traditional confectioneries to enjoy at the time of their gathering. For more information about Nowruz, and how to celebrate it, please watch the three-minute show produced by BBC titled "What is Nowruz How to celebrate Persian New Year" at the following link: <https://www.youtube.com/watch?v=HZnoNXrkf00>. Happy Nowruz! article and pictures prepared by Azi Bashiri.



IRB

IRB Wishes Farewell to Chair

It is with sincere gratitude that we thank **Stuart Guenther** for stepping out of retirement to serve as the Institutional Review Board (IRB) Chair for the past two years.



Combined with his previous service to the IRB, which began in 1987, he has served four years as chair and 17 years as the vice-chair for a total of 26 years committed to the IRB. His expertise, knowledge, thoroughness, ability to keep the meeting discussions on track and his overall warm friendly personality will be extremely missed. We wish him the very best as he returns back to retirement to enjoy time with his wife and family as well as other activities.

iRIS Moves Into Pilot Phase

The IRB electronic submission system (iRIS) continues in the pilot phase and we are continuing to make progress. We have been training some investigators and research staff to provide us with expedited submissions for review in the system which has been going well. We will begin soon with change/update to original submission through iRIS and will be conducting more training sessions. It is the goal of the IRB to have iRIS fully implemented by July 2018.

Common Rule Delayed Once More

In January 2018, the common rule was delayed for an additional six months until July 19, 2018 at which time new rules are to be implemented. However, on Friday April 20, 2018 the Office for Human Research Protections (OHRP) sent out an email regarding a new announcement of the notice of proposed rule-making (NPRM) to delay the common rule for another six months, thus delaying it until January 21, 2019. Therefore MCRI IRB will continue to follow the existing rules until we are informed of a definite date that the common rule will go into effect.

For additional information on the NPRM announcement you may click on this link.

<https://www.hhs.gov/ohrp/announcement-nprm-revisions-common-rule.html>

FAQs Updated

The Research Integrity & Protections webpages have been updated with some new investigator resource frequently asked questions. This new information is located at this URL:

<https://www.marshfieldresearch.org/orip>

Compliance

Time and Effort Reporting

Time and Effort reporting is a topic that is familiar to most of us and something that is completed on a routine basis. It is a requirement that some find an annoyance, possibly in part to not understanding the reasoning behind the reporting process. The April 2018 issue of Report on Research Compliance reports again on inaccurately charging researchers' time and effort spent on federal grants. This time the non-compliant organization was the University of North Texas Health Sciences Center (UNTHSC). In 2015, during an internal audit, UNTHSC discovered issues within a 6-year time span involving 120 NIH-funded projects. UNTHSC notified the government of their issues in a letter on January 10, 2017 along with a corrective action plan that had been implemented immediately. Issues that were uncovered included receiving payments for time and effort even though reports were inaccurate or missing and payments not matching accompanied reports. The response from the government said that UNTHSC, "inaccurately measured, tracked, and paid researchers for effort spent on certain NIH-sponsored research grants." The final settlement required UNTHSC to pay the government \$13.073 million in fines.

The office of Research Compliance will present a brown bag education session on time and effort reporting soon in the next quarter.



Continuing Education

CEU Workgroup Established

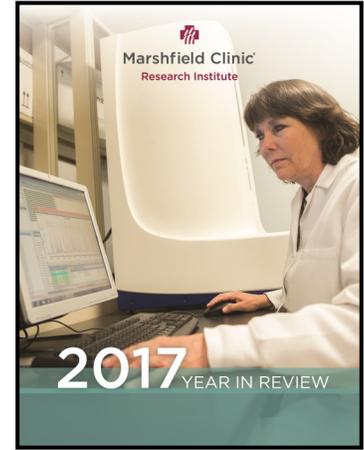
Continuing education is required for employees to stay current with the latest developments, skills and new technologies required for their fields. Certain professions also require continuing education to comply with laws, remain licensed or certified or maintain membership in an association or licensing body. Overall, continuing education is considered a way for professionals to keep abreast of their fields so they don't lag behind. As MCRI continues to grow, so does the need for continuing education. As a result, a group of individuals has been identified that will assist in organizing educational opportunities. If you have ideas or suggestions regarding continuing education, please reach out to the following individuals: Anne Nikolai, Kristina Fletty, Cindy Brown or DeeAnn Polacek. If you are interested in participating in the CEU workgroup in the future, please reach out to Melissa Slager.

Publications

Research Institute Publishes ‘Year in Review’

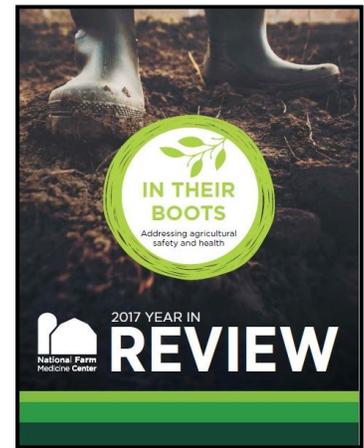
Marshfield Clinic Research Institute recently published its [2017 Year in Review](#), featuring projects and employees that integrate medical research into better patient care every day at Marshfield Clinic Health System.

The Institute is the largest private medical research institute in Wisconsin, with \$17 million in externally-funded research projects in 2017. [Read more](#)



NFMC Publishes ‘Year in Review’

“In their boots” is the theme of the National Farm Medicine Center 2017 [Year in Review](#), reflecting the Farm Center’s approach to research with agricultural populations. Editor and Outreach Specialist Melissa Ploeckelman filled the document with highlights, infographics and blogs by staff, offering a snapshot of the 37th year of the nation’s oldest, continuously-operating farm agricultural research center.



CHG Scientists Publish Article in *Science*

Murray Brilliant, Co-Director of Center for Human Genetics (CHG), and **Scott Hebbring**, CHG Research Scientist, were part of a team with Vanderbilt University that created a phenotype risk score to identify patients with unrecognized patterns of symptoms caused by an underlying genetic disease. A high phenotype risk score was assigned to individuals who closely matched the features of a genetic disease and a low score for individuals without these features.

Symptoms hidden within electronic health records may hold the key to diagnosing rare genetic diseases that are misdiagnosed as more common ailments such as heart or kidney disease, according to the research published in the journal, *Science*. For example, the results showed that 14 percent of patients who had a genetic variant that affects the kidneys ended up having a kidney transplant whereas 10 percent with another variant had liver transplants. Had the patient’s genetic disease been diagnosed sooner by using the phenotypic risk scores and the genetic information, some of these transplants may have been preventable. Thus, the data showed that mining specific symptoms in electronic health records combined with genetic data can be used to obtain a better diagnosis of the true underlying health issue and allow appropriate treatment for the patient.

Researchers also learned that in some circumstances, only one genetic variant instead of two was needed to affect a patient’s health as previously thought for some recessive genetic diseases. Future research is needed to see how computer generated scores can be implemented into actual clinical practice. This research utilized both Marshfield Clinic’s Personalized Medicine Research Project (PMRP) and Vanderbilt’s BioVU biobanks.

The full text of the article is [available online](#).

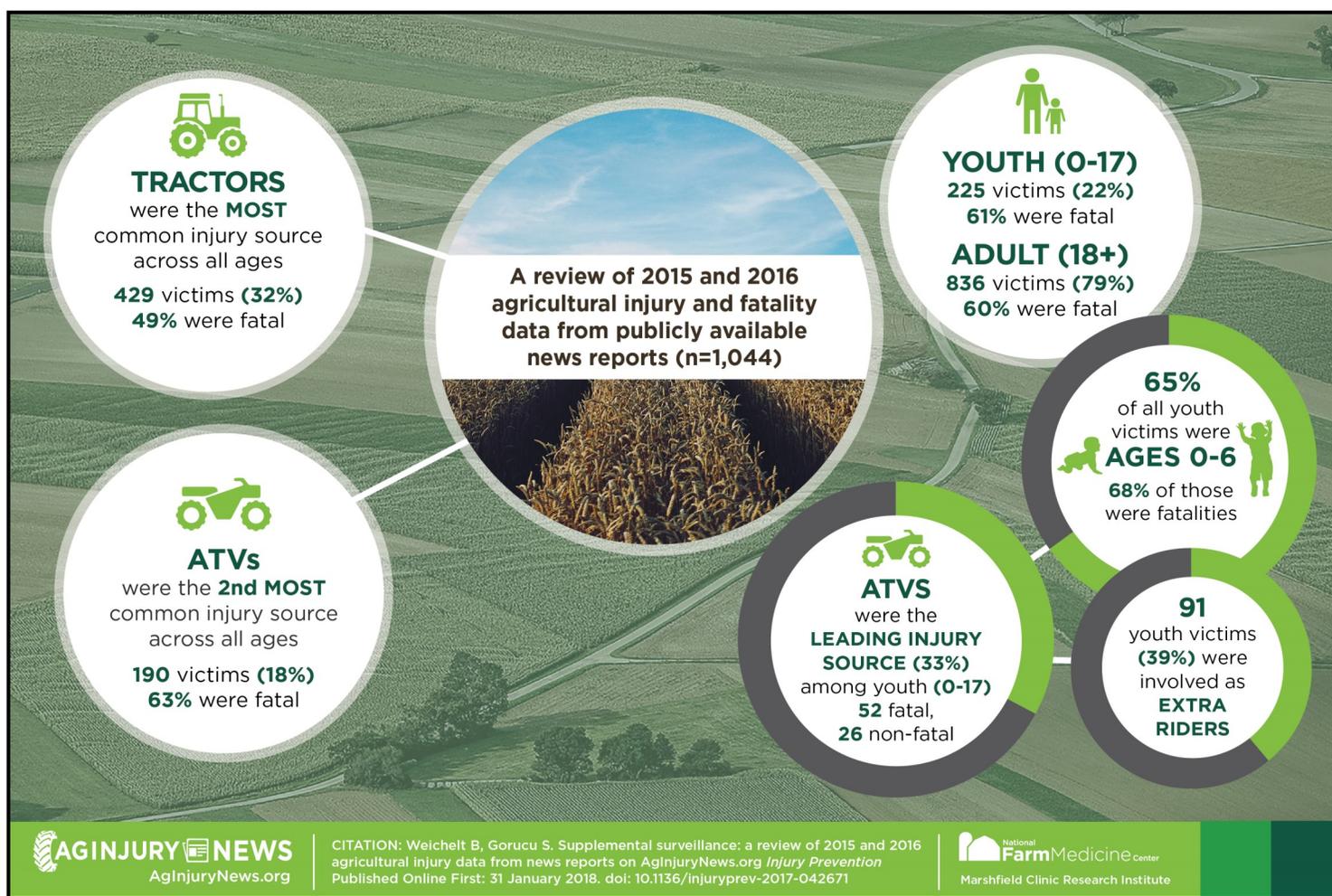
Publications (cont'd)

Rural Health Informatics Playing Increased Role in Agricultural Safety

News media reports of agricultural injuries and fatalities can fill an important information gap and provide near real-time, humanized stories for safety professionals and policymakers who are focused on the future of agricultural health and safety, according to research published in the journal *Injury Prevention*.

There is no central repository of agricultural injury data, and federal childhood ag injury surveillance has ended. However, researchers at the National Farm Medicine Center are building and testing rural health informatics tools to enhance the collection and dissemination of publicly available injury case data from news reports.

[Read more](#)



Presentations

Health Care Systems Research Network 24th Annual Conference



CCEPH researchers and staff were among the nearly 400 attendees at the 2018 Health Care Systems Research Network (HCSRN) Annual Conference held April 11-13, 2018 in Minneapolis. This year's theme was "Improving Health and Well-Being: Connecting Research and Practice" and was hosted by the HCSRN and Health Partners Institute.

The objectives of the HCSRN conference are to showcase scientific findings from HCSRN research projects, and to spur collaboration on research initiatives that improve health and health care for individuals and populations.

Bob Greenlee, Ph.D., M.P.H., senior research scientist and HCSRN Governing Board member, participated as session chair for the Data Science and Networks Oral Abstract Session.

Deb Multerer, research assistant manager, coordinated the Virtual Data Warehouse Implementation Group in-person meeting, the VDW Data Area Workgroup Lead meeting and the HCSRN/VDW orientation session.

Two abstracts coauthored by CCEPH staff were presented at the Child, Maternal and Mental Health Oral Abstract Session:

- "Risk of Seizures following Measles Containing Vaccination in Children Born Preterm or Full-Term" David McClure, Ph.D., senior epidemiologist (presenter) and Huong McLean, Ph.D., research scientist.
- "Evaluating the Risk of Spontaneous Abortion Following Inadvertent Human Papillomavirus Vaccination in Pregnancy" Jim Donahue, D.V.M., Ph.D., M.P.H., senior epidemiologist.

Dr. Ed Belongia, CCEPH director, and Jeffrey VanWormer, Ph.D., CCEPH research scientist, also attended the conference.

Other MCRI staff attending this year's conference included **Glen Buth**, ORCA research programmer/analyst; **Brian Hoch**, ORCA research programmer/analyst and VDW site data manager; **Neel Shimpi**, B.D.S., M.M., Ph.D., COSH associate research scientist.

The mission of the HCSRN is to improve individual and population health through research that connects the resources and capabilities of learning health care system. Visit www.hcsrn.org for more information.



Pictured L-R: Bob Greenlee, Brian Hoch, Neel Shimpi, Deb Multerer, Glen Buth

Presentations (cont'd)

CCEPH Epidemiologist Presents Study Results on the Safety of 9vHPV Vaccine at a National Meeting on Vaccine Research

Kayla Hanson, CCEPH epidemiologist, presented an oral abstract session at the Annual Conference of Vaccinology Research in Bethesda, Maryland on April 24.

Study Summary: Human papillomavirus (HPV) is a common sexually transmitted infection that can cause anogenital warts and lead to the development of cervical, oropharyngeal and other anogenital cancers. Vaccines that prevent HPV infection have been available in the U.S. since 2006 and have been shown to be safe and effective. A 9-valent HPV (9vHPV) vaccine that protects against more strains of HPV was licensed in 2014 and is now the only HPV vaccine available in the U.S. CCEPH scientists recently completed a study on the safety of this vaccine through their work with the Vaccine Safety Datalink (VSD).



Kayla Hanson presenting at Bethesda, Maryland

The VSD is a collaboration between the Immunization Safety Office at the Centers for Disease Control and Prevention and eight integrated health care systems in the U.S., including Marshfield Clinic Health System, that is tasked with studying the safety of licensed and recommended vaccines. Following licensure of the 9vHPV vaccine, plans were developed for the VSD to monitor the safety of the vaccine in the VSD population led by CCEPH scientist Jim Donahue, D.V.M., Ph.D. and the Marshfield VSD team. Over a 2-year period, data on 9vHPV vaccinations given to adolescents and young adults at VSD sites were collected and analyzed on a weekly basis. No unexpected safety signals were observed after nearly 900,000 doses of 9vHPV vaccine, although signals for two known side effects of the vaccine, syncope (fainting) and injection site reactions (pain/redness), were identified.

Study findings were recently presented by CCEPH epidemiologist Kayla Hanson, M.P.H. during an oral abstract session at the Annual Conference of Vaccinology Research in Bethesda, Maryland on April 24. Findings will be formally written up in the form of a manuscript and monitoring in the VSD will continue for rare events following 9vHPV vaccination.

Doin' a Little Snooze

After the distribution of this issue, *Research Matters* will be going on an indefinite hiatus as we evaluate and further refine MCRI's communications strategy. We are no longer accepting article submissions at this time. If you have a news item you feel would be appropriate for the MCRI website or Pulse, please contact [Jordan Simonson](#) to coordinate. Stay tuned for future announcements about our new and improved internal communications!



Community & Volunteerism

CCEPH Epidemiologists Run 'Disease Detectives' Event at 2018 Wisconsin Science Olympiad



WISCONSIN
SCIENCE OLYMPIAD

Hundreds of Wisconsin middle and high school students gathered at the University of Wisconsin-Milwaukee on Saturday, April 7th for the annual Wisconsin Science Olympiad Inc. (WSO) State Tournament. WSO is a non-profit organization with a mission to promote STEM education for students in Wisconsin K-12 schools by engaging communities in the thrill, excitement, and challenge of science, technology, engineering and math competition.

Epidemiologists from the Center for Clinical Epidemiology and Population Health joined with hundreds of other volunteers to offer their expertise and time to support the STEM educational efforts of WSO. CCEPH scientists have written the Disease Detectives exam and supervised the event at the state tournament for over 10 years. Huong McLean, Ph.D., M.P.H. wrote this year's exam; Jennifer King, M.P.H. and Kayla Hanson, M.P.H. helped develop and refine the test and assisted the day of the tournament by checking-in students, monitoring and grading the exam and calculating official scores.

The exam is designed to test middle and high schoolers' skills in tracking a disease outbreak, with this year's focus on foodborne illnesses. Students typically work in pairs and are asked to imagine they are part of a team deployed to investigate a disease. They must answer questions about types of surveillance best suited for the situation, examine disease trends, calculate risks tied to eating certain foods and identify appropriate disease control measures, all as a real field epidemiologist would. The Disease Detectives event is one of many, with students going on to compete in other STEM competitions, and culminating in a grand awards ceremony. Thanks to our CCEPH scientists who volunteer their time with this and other activities to stimulate and encourage the next generation of scientists!

MCRI Studies Currently Recruiting

All of Us

Marshfield Clinic Research Institute is now openly enrolling Marshfield Clinic Health System patients in the *All of Us* Research Program.



All of Us is a nationwide effort led by the National Institutes of Health (NIH) to advance research into precision medicine, an approach for disease treatment and prevention that takes into account individual differences in biological makeup, environment and lifestyle for each person. [Read more](#)

Lyme Disease

The Clinical Research Center is looking for more people to participate in a national effort to collect samples to improve Lyme disease diagnosis and treatment.

Lyme disease occurs after being bit by a tick, commonly referred to as the deer tick here in Wisconsin. Symptoms include fever, headache, achiness and a bullseye or red, expanding rash. [Read more](#)



Upcoming Events

Office of Research Computing & Analytics (ORCA) Lunch-n-Learn Sessions

A series of Lunch-n-Learn sessions addressing new and existing technologies, hardware and software available to MCRI and other staff interested in the topics. Presentations will be approximately 30 minutes. Stop by to learn more or just ask questions of the ORCA team.

Location: R1A/B

Time: Noon (feel free to bring your lunch)

Dates: Tuesday, July 10 - MCRI HUB Security and Notifications

Wednesday, August 8 - Request Module

Wednesday, September 5 - REDCap e-Consent

Wednesday, October 3 - REDCap Action Tags

Have suggestions for future presentations? Contact [Joe Ellefson](#) or [Laurel Verhagen](#).

Protect the Future of Agriculture

Registration Opens for Child Injury Prevention Workshop, August 14-15, 2018

A national workshop that will help America raise its next generation of farmers and ranchers has been scheduled for August 14-15 in Marshfield, Wisconsin.

The Child Agricultural Injury Prevention Workshop is all about working together to safeguard youth, said Marsha Salzwedel, M.S., National Children's Center for Rural and Agricultural Health and Safety. [Read more](#)



Grand Rounds

12:10-1:00 p.m. in the Froehlke Auditorium

[July & August Grand Rounds Schedule](#)

In Addition:

The next MCRI Full Staff meeting is scheduled for July 26, 2018 at 10 a.m. in the Froehlke Auditorium.

Questions can be routed or emailed to Michelle Wellsandt at 1R3 or wellsandt.michelle@marshfieldresearch.org.

For the latest UW-ICTR news, please visit: <https://ictr.wisc.edu/news/>.

The Marshfield Clinic Research Institute website can be found at marshfieldresearch.org.

Archived issues of *Research Matters* are [available online](#).

Contributors to this issue: Dr. Amit Acharya, Patti Baer, Bobbi Bradley, Susan Franseen, Scott Heiberger, Jeffrey Joyce, Stephanie Karl, Deb Multerer, Jordan Simonson, Melissa Slager, Daniel Wall

Edited by: Patti Baer, baer.patricia@marshfieldresearch.org (ext. 1-8840)
Michelle Wellsandt, wellsandt.michelle@marshfieldresearch.org (ext.9-3140)
Jordan Simonson, simonson.jordan@marshfieldclinic.org (ext. 9-3076)