

Research Matters May 2017

Research Matters is a monthly newsletter published by Marshfield Clinic Research Institute.

Director's Report



Frederick Wenzel, Interim Executive Director

This month's ceremony for Melvin Laird at Fort Myer and Arlington National Cemetery was most impressive. The chaplain led the group in prayer and David, Mel's son, presented the eulogy. He recounted Mel's experiences over the years beginning with the family and then moving on to his many contributions in the United States Congress and the Department of Defense. He talked about Mel as a father, a leader dedicated to the welfare of his country, and a "Man for all Seasons". There were a number of dignitaries at the ceremony including journalist Bob Schieffer and former Governor Jim Doyle. Dr. Turney, Brent Miller, and Reid & Ellie Hall were in attendance. Mel was a long time friend of mine and ardent supporter of the Marshfield Clinic and the Research Institute.

I was pleased to attend Graduate Medical Education Day held on May 18. From the residents' research projects that were presented, it is apparent that these graduating physicians have established an outstanding record in not only service, but in research as well. Dr. Ali Al-Hilli was awarded the 10th Annual Nikolai Award for outstanding resident research. Dr. Melissa Williams was named the best presenter and Sara Griesbach, PharmD was named mentor of the year.

Institute scientists have been presenting their work in a number of venues. Dr. Belongia was invited to present his studies on vaccine effectiveness in May at a meeting in Annecy, France where scientists from all over the world were in attendance. He was also invited to present his work to the staff and scientists of the National Institutes of Health on May 9 in Bethesda, Maryland. Dr. Brilliant participated in a series of meetings including the World Orphan Drug Conference in Washington, DC. These meetings are shared in further detail later in this issue. Also discussed in this issue, Dr. Sanjay Shukla presented his findings from the Dairy Worker Microbiome Colonization Project at the 27th European Congress of Clinical Microbiology and Infectious disease in Vienna, Austria.

Dr. Acharya was recently appointed by the American Dental Association as its representative to the Health Level Seven (HL7) Standards Committee and was involved in international informatics standards development activity at the recent 2017 HL 7 International meeting in Madrid Spain. Read more about the HL7's work and Dr. Achaya's partcipation in this edition's article on the appointment.

The Board of Trustees Institute met on May 18 to discuss the role of the trustees under the new governance system. There were a number of ideas and principles presented which will be more clearly defined and the subject of the meeting to be held in August.

The search for the permanent Institute Executive Director continues with more candidates being screened.

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Director's Report

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On behalf of Andy Keogh and myself, I sadly share with you the passing of Chris Cirmo, PhD, the Dean of College of Letters and Science at the University of Wisconsin - Stevens Point on May 26. Dr. Cirmo became a community member on the MCRI Board of Trustees in 2016. Chris was a valued asset to the board and had recently expressed an interest in becoming a Member-at-Large on the Executive Committee. He was 63 at the time of his death. A Time of Sharing Memories for Dr. Cirmo will be held on Friday, June 2 from 4:00 – 8:00 p.m. in the Alumni Room in the Union at UWSP. Please join us in sending condolences to his wife, Barbara; children, Amethyst Sloane and Ethan Cirmo; and his extended family, friends, and colleagues.

Associate Director's Report



Steve Ziemba, Associate Director

I can't believe it has been a year since we first recognized International Clinical Trials Day, which is May 20. For those not familiar, this day marks what is considered the first clinical trial. James Lind, a surgeon's mate in the British Royal Navy, was investigating how to prevent scurvy. After recruiting (likely minus the IRB or informed consent) twelve men to receive various treatments, he found that citrus fruits prevented this deadly disease. You can read more on the advent of Clinical Trials Day at this Link.

We have come a long way since Lind's pioneering work. Study design, human subjects' protections, research ethics, and our very understanding of

how disease affects the human body have evolved dramatically. These developments are directly attributed to clinical trials. As with many things, unfortunately the road has not been a smooth one, but it is one we learn from. Medicine continues to develop at an accelerated pace, and with it the manner in which we engage in clinical research in exploring the mechanisms of disease prevention and treatment. The Marshfield Clinic Research Institute has been, and continued to be, a leader in this field. As always, thank you for the amazing and vital work you do.

MCRI Centers Celebrate Clinical Trials Day

On May 19th, MCRI's Clinical Research Center and Center for Clinical Epidemiology & Population Health gathered to celebrate Clinical Trials Day by honoring staff and scientists for their contribution to medicine and public health. Staff and Scientists filled in "we are" selfie signs to tell the world what they are doing every day as a clinical researcher.



MCRI On The Move

Brian Gotz joins MCRI Fiscal Affairs as a Budget and Contract Specialist focused on Industry Sponsored Clinical Trials. Brian previously worked in the Clinical Research Center (CRC) as their Senior Pre-Award Specialist for 9 years working with Industry and the NCI's clinical trials. He further helped pioneer the building of protocol calendars in CRC's Clinical Trials Management System: VELOS. He brings with him over 25 years of financial experience to the Fiscal team.



Tammy Bergeson has been promoted to **Accountant**, also within **Fiscal Affairs**. This role

will assist with the financial oversight of Industry Sponsored Clinical Trials as well. With extensive experience as part of Fiscal team, Tammy previously served as Senior Accounting Assistant for 22 years.

Research Interns Begin Summer Program at MCRI

The 2017 Summer Research Internship Program began with the arrival of the interns on May 24th. A combination of undergraduate and graduate students, this year's cohort will be working with mentors in several MCRI centers on an exciting array of research projects.

In addition to their research, interns will present articles for discussion at the Infectious Disease or Oral Systemic Health Journal Club meetings with COSH interns also participating in the Oral Systemic Health Innovation Chats. Each intern is offered the opportunity to engage in clinical observations in the areas of their interest within MCHS. Attendance at an IRB meeting to gain knowledge about



the human subject research approval process is also included as part of the program.

Please welcome Azi Bashiri (BIRC mentors Ahmad Tafti and Peggy Peissig), Callahan Katrak (COSH mentor Amit Acharya), Rachel Fehrman (CHG mentors Scott Hebbring and Jamie Fox), Klaire Laux (IRDL mentor Jennifer Meece), Katelyn Kleutsch (COSH mentor Amit Acharya), Trever Koester (IRDL/Clinical mentors Jennifer Meece and Holly Frost), Rachael Rol (NFMC mentors Cap Bendixsen and Kate Barnes), Vishakha Mavani (CCEPH mentor Jeff VanWormer) and Calin Dumitrescu (CHG mentor Sanjay Shukla).

Be sure to Save the Date! The interns will be presenting the results of their summer projects at the Research Symposium on August 10th in the Froehlke Auditorium.

2016 SRIP Intern Receives "Outstanding Practicum Award"



Emma Seagle, MPH recently shared the following update on her experiences since concluding her internship at MCRI.

"This past summer I participated in the Summer Research Internship Program at MCRF as a Research Assistant in the Center for Clinical Epidemiology and Population Health. While under the mentorship of Dr. Huong McLean, Dr. Ed Belongia, and Jenny King, I conducted a study examining the risk factors of repeat influenza infections of the same subtype or lineage. This experience enabled me to apply the knowledge and skills I

learned inside the classroom while, at the same time, learn from experts within the field.

This summer internship was also part of my practicum experience, an MPH degree requirement. After completion of the summer internship, I was one three students from the graduating class of 2017 to receive the "Outstanding Practicum Award" at the Rollins School of Public Health. This award is given to students who best demonstrate public health in action through their practicum experiences. I was honored to receive this award and incredibly thankful for the amazing mentorship and guidance I received at MCRF.

I graduated from Emory University's Rollins School of Public Health with an MPH degree in May of 2017 and will be completing the CDC/CSTE Applied Epidemiology Fellowship in Atlanta, Georgia starting in July."

Recent Publications and Grants

Each month, MCRI researchers and MC clinical investigators are active publishing journal articles and seeking research funding. Please select the hyperlink to view recent <u>publications</u> and <u>grants</u>.

If you have recently published an article or received a grant or an award and want it included in the next issue of *Research Matters*, please contact Patti Baer at baer.patricia@mcrf.mfldclin.edu

Interactive Clinical Design Institute Contributes to Award-Winning Directory

Marshfield Clinic's online provider directory won an American Web Design Award from Graphic Design USA. The work was truly a collaborative effort of patients, designers, programmers, user experience and strategic leadership from Dr. Parkhurst and Nancy Stueland-Adamski. GDUSA's 2017 American Web Design Awards™ is an annual showcase of the best in web, interactive and UX design. This year saw a record 1,400 entries; a highly selective top 15 percent were recognized as winners. GD USA is a publication for designers that has a printing of over 100,000 and is a counterpart to HOW and Com Arts.

MCRI Congratulates Recent Degree Recipients



CM&R Editor Earns Master's Degree from UW-Madison

Congratulations to Sherry Salzman Scott on her graduation from the University of Wisconsin-Madison! Sherry received her Master of Science degree in biotechnology on May 13, 2017. The M.S. in biotechnology curriculum integrates science with business and law preparing students for roles in science and biotechnology innovation management. Sherry serves as the Senior Editor of *Clinical Medicine & Research*, the professional medical journal published by Marshfield Clinic Health System.

Research Specialist for the Center for Oral and Systemic Health (COSH) Receives her PhD

Dr. Neel Shimpi walked across the stage Sunday, May 21st, and accepted her doctoral degree in Biomedical and Healthcare Informatics from the University of Wisconsin-Milwaukee with a focus on Healthcare Information Systems. Her focus of her Ph.D. dissertation was evaluation and development of a clinical decision support tool based on artificial intelligence. Dr. Shimpi has a bachelor's degree in Dental Surgery from India and a master's degree in Healthcare Management with a major in healthcare



informatics from Cambridge College of Management in Massachusetts. She also has diplomas in clinical research and hospital administration. Dr. Shimpi's research interest lies in medical and dental informatics, artificial intelligence, oral and systemic health connections, developing clinical decision support tools, provider and patient education and electronic health records.

NFMC Partnering with Rural Firefighters

This five-year project (2016-2021) is training first responders to be health and safety consultants to farmers. Prior research showed farmers trust firefighters/EMS and would listen to safety recommendations from them. The project, "Rural Firefighters Disseminating Agricultural Health and Safety (RF-DASH)" is led by Casper Bendixsen, Ph.D., and includes Kate Barnes, M.P.H. They report that several central Wisconsin fire departments and two-year colleges have expressed interest in the trainings. The RF-DASH curriculum has the possibility of being deployed nationally. The project is funded by the Upper Midwest Agricultural Safety and Health Center



(UMASH) and the Agricultural Safety and Health Council of America.

Rural Farm MAPPER Enhanced With Augmented Reality

Farm Mapping to Assist, Protect and Prepare Emergency Responders (Farm MAPPER) is being reinvigorated with augmented reality. Led by Bryan Weichelt, Ph.D., the project recently received pilot funding through the Central States Center for Agricultural Safety and Health in Omaha, Nebraska. The new effort will develop an augmented reality version of Farm MAPPER, available on iOS and Android platforms. This technology superimposes a computer-generated image on a user's view of the real world, thus providing a composite view. The new app will also be used in Dr. Bendixsen's RF-DASH project.

Child Agricultural Injury Prevention Leader Named 'Outstanding Researcher' by National Rural Health Association



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

Dr. Lee is director of the National Children's Center for Rural and Agricultural Health and Safety, and interim director of the National Farm Medicine Center, both part of Marshfield Clinic Research Institute in Marshfield, Wis.

Lee and other major award winners were honored May 11 at the NRHA annual conference in San Diego. Although she could not be present, Lee used her acceptance video to thank NRHA for highlighting childhood agricultural health and safety efforts. She said she was accepting the award on behalf of her researchers and staff, past and present.

Nominating Lee were Brent Miller, director of federal government relations, Marshfield Clinic Health System; and Bryan Weichelt, Ph.D., project scientist, National Farm Medicine Center.

Lee's experience as an early-career nurse in a rural hospital sparked her passion for agricultural health and safety. She directed development of an action plan, leading to the National Childhood Agricultural Injury Prevention Initiative, implemented in 1996 by the National Institute for Occupational Safety and Health (NIOSH). Lee also chaired major efforts establishing voluntary standards for children's work in agriculture, and for protecting non-working children.

Since 1997, she has directed the NIOSH-funded National Children's Center for Rural and Agricultural Health and Safety. During that time, the rate of childhood farm-related, non-fatal injuries has declined by nearly 70 percent, an accomplishment described by the Centers for Disease Control and Prevention as one of the top ten public health successes of the last decade.

Dr. Acharya Appointed to Health Level Seven (HL7) Standards Committee as American Dental Association Representative



Dr. Amit Acharya, Director of Center for Oral and Systemic Health was recently appointed by the American Dental Association (ADA) as its representative to the Health Level Seven (HL7) Standards Committee and was involved in international informatics standards development activity at the recent 2017 HL7 International meeting in Madrid, Spain.

Founded in 1987, Health Level Seven International (HL7) is a not-for-profit, ANSI-accredited standards developing organization dedicated to providing a comprehensive framework and related standards for the exchange, integration, sharing, and retrieval of electronic health information that supports clinical practice and the management, delivery and evaluation of health services. HL7 is supported by more than 1,600 members from over 50 countries, including 500+ corporate members representing healthcare providers, government stakeholders, payers, pharmaceutical companies, vendors/suppliers, and consulting firms.

Dr. Acharya will be working closely with the ADA's Standard Committee on Dental Informatics (SCDI) members where he also serves as the Chairman for the Clinical Informatics Sub-group and members from the HL7 EHR working group to lead the development of national and international standard focused on a Dental EHR Functional Profile based on the HL7's Electronic Health Record System Functional Model (EHR-S FM Release 2.0). The Dental EHR Functional Profile will guide the stakeholders who are designing and developing the Dental EHR to focus on specific EHR functions as defined in the standard to support the practice of dentistry.

MCRI Receives Donation from Milwaukee Institute, Inc.

A donation of a high performance computing system (HPC) to Marshfield Clinic Health System Foundation from Milwaukee Institute, Inc. will improve healthcare delivery and advance innovative treatment options at Marshfield Clinic.

A significant addition to the Marshfield Clinic Research Institute, the HPC will support the integration of important genetic and medical information into patient electronic health records (EHR). The new equipment will allow researchers and caregivers to analyze and integrate health



data more efficiently, which means that science done in the lab can be moved into practical therapies that will help patients receive the right treatments, at the right dose, at the right time.

CCEPH Scientists Volunteer at Wisconsin Science Olympiad

Hundreds of Wisconsin middle and high school students gathered at the University of Wisconsin-Milwaukee on Saturday, April 8th 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.

Scientists in the Center for Clinical Epidemiology and Population Health (CCEPH) joined with hundreds of other volunteers to offer their expertise and time to support the STEM educational efforts of WSO. For the last 4 years, Dr. Huong McLean has created the exam for the Disease Detectives portion of the State Tournament. Jennifer King and Liz Vickers, also of CCEPH, help develop and refine the test and assist Dr. McLean on the day of the tournament to check students in, monitor and grade the exam, and calculate official scores.

The exam is designed to test middle and high schoolers' skills in tracking a disease outbreak. 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 Exam is one of many, with students going on to compete in other STEM competitions, and culminating in a grand awards ceremony.

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FERWHERE
Also guess

Above: Students in team shirts at WSO. Below: Students competing in the bottle rocket event.

Photo credit: Wisconsin Science Olympiad https://www.wisconsinso.org/statephotos/



Thanks to our MCRI scientists who volunteer their time with this and other activities to stimulate and encourage the next generation of scientists!

Employee Volunteer Program Announced

Earlier this month, Dr. Susan Turney announced the introduction of a new Employee Volunteer Program. Inspired by the success of Security Health Plan's launch of the same program last year, a decision was made to expand it system-wide. Seen as a way to both recognize employees who volunteer their time and to support the work of local organizations that enrich lives and improve the well-being of our communities, MCHS is committing \$30,000 this fiscal year to the initiative.

MCHS will provide an award of \$75 or \$150 to an eligible non-profit organization after an employee volunteers either 5 or 10 hours, respectively, during the time frame of May 1– September 30. Each employee is eligible to earn one volunteer award per year. The maximum donation to each individual organization is \$2,500 per fiscal year.

To learn more about how to participate, please visit the <u>program's intranet page</u>.

CHG Director Participates in National Meetings in Genetics and Ophthalmology



Murray Brilliant, PhD participated in a series of four meetings recently, including the World Orphan Drug Conference in Washington, DC, where he presented research on repurposing the drug L-DOPA in the treatment of vision problems in albinism and age-related macular degeneration (AMD). As a Co-Director of the Waisman Center's Intellectual & Developmental Disabilities Research Center program, Dr. Brilliant was invited to participate in a planning meeting of the NIH National Institute of Child Health and Development in Bethesda. This meeting will produce a white paper summarizing the direction

of future research on intellectual disability. Dr. Brilliant was also an invited participant in "Genomic Medicine 10", the tenth in a series of NIH-sponsored planning meetings. This meeting focused on pharmacogenomics and will produce a white paper summarizing the current implementation programs, opportunities, and challenges for expanding the benefits of phamacogenomic testing. Additionally, Dr. Brilliant was an organizer and moderator of a special session on research of the visual system of people with albinism at the Association for Research in Vision and Ophthalmology (ARVO), the largest eye research organization in the world, and was a co-author of presentations on AMD and glaucoma at ARVO.

BIRC Analyst Presents at Clinical Informatics Conference



Kate Thomas, Usability Analyst, presented a poster on user research at the <u>iHealth Clinical Informatics Conference</u>, hosted by American Medical Informatics Association (AMIA) in Philadelphia May 2-4.

Thomas conducted the user research on a BIRC-developed smartphone app, mShine. The app allows adolescents with diabetes to report blood glucose values to clinical staff. The app also focuses on providing positive reinforcement to adolescents via personalized messages from clinical pediatric

and psychology staff.

Thomas' poster, "Discovering Adolescent Diabetic Workflow: A Usability Study of Glucose Tracking Smartphone App," presented the following insights gained through user research: (1) adolescent logging happens asynchronously, (2) parent caregivers and clinical staff look for the same information when viewing blood glucose values over time, and (3) app login was a barrier to adolescent use. Recommended improvements based on the insights were also presented.

Dr. Peggy Peissig Chairs AMIA Clinical Research Informatics Summit 2017



Peggy Peissig chaired program development for the Clinical Research Informatics (CRI) Summit March 27 – 30 in San Francisco. The CRI Summit is part of the American Medical Informatics Association (AMIA) Joint Summit on Translational Science, a national forum where cutting-edge clinical research informatics approaches are showcased and best practices are shared. Now in its eighth year, the AMIA CRI Summit highlights new informatics models, methodologies, tools, and platforms for the capture, storage, retrieval, integration, visualization, extraction, and analysis of biomedical research data.

The explosive growth in the size and diversity of biomedical research data, information and knowledge continues to push current CRI capabilities.

"The field of Clinical Research Informatics (CRI) is rapidly changing, due in part to the availability of large amounts of clinical and genomic data, healthcare consumer involvement and public health concerns," says Dr. Peissig, long-time AMIA member and a member of the Scientific Program Committee since 2014, "New informatics theories, tools and solutions are needed to accelerate our knowledge discovery, translation, application and implementation of solutions in these areas. The AMIA Joint Summits on Translational Science is the perfect venue to learn about cutting-edge informatics in both the clinical, bioinformatics, and implementation informatics domains and to meet the leaders who are advancing translational science."

CHG Researcher Presents at International Infectious Disease Conference



Sanjay K. Shukla, Ph.D., Senior Research Scientist, presented his findings from the Dairy Worker Microbiome Colonization Project at the 27th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), April 22-25, 2017, in Vienna, Austria. Dr. Shukla's presentation, "The nasal microbiota of dairy farmers is more complex than oral microbiota, reflects occupational exposure, and exhibits Staphylococcus colonization resistance," is a joint CHG and National Farm Medicine Center collaborative project. Dr. Shukla was also a co-author on a presentation given by Marshfield Clinic Pathologist, Dr.

Thomas Fritsche, MD, Ph.D. at this conference titled, "Low clonal overlap of extended spectrum beta-lactamase producing Escherichia coli from human, canine, and bovine hosts in the upper USA Midwest."

The ECCMID Conference provided the latest developments in infectious diseases, infection control and clinical microbiology from infectious disease experts worldwide.

Compliance Notes



Linda Jaros, Research Compliance Officer

Enhanced Clinical Trial Design Act

A bill with significant implications for clinical trials was introduced in the U.S. Senate on May 4th. S. 1048, the "Enhanced Clinical Trial Design Act," calls for officials from NIH and FDA to meet to discuss ways to broaden eligibility to clinical trials and investigational treatments. Mandated topics on the agenda include: barriers for patients created by trial inclusion/exclusion criteria, how changes to such criteria could impact trial design and length of trials, the impact of inclusion/exclusion criteria on pregnant women, children, the elderly and individuals with co-morbid conditions, and how to enroll more diverse patient populations in clinical trials.

Additionally, FDA regulation of expanded access to investigational drugs is to be evaluated, including the impact of potentially allowing IRB Chair review and approval of single patient expanded access. The bill also requires that the Government Accounting Office (GAO) evaluate and report on any difficulties changes to clinical trial enrollment and access to investigational drugs could cause for the pharmaceutical industry. The expected end product from this bill is a new FDA Guidance on eligibility for clinical trials.

WREN Announces Conference on Patient-Centered Communication

On Friday, July 14th, the Wisconsin Research and Education Network (WREN) will be hosting a "Leading the Way to Excellence in Patient-Centered Communication" conference at the University of Wisconsin- Madison in the Arboretum Visitor Center. The event will discuss topics like self-management support, shared decision making, and several others related to patient-centered communication.

Communication is fundamental to the relationship between clinicians and their patients. Yet, communication skills are some of the most difficult to master. The day's presentations and activities will provide practical tools and strategies for improving communication and motivating skills. Through interactive activities and group discussions, learn from experts and one another.

For more information visit 2017 WREN Convocation of Practices

Upcoming Talks and Presentations

Scientific Seminars (Froehlke Auditorium)

Thursday, June 1st

12:05pm-1:00pm

"Periodontal Therapy and Medical Care Costs in Patients with Diabetes"

George Taylor, DMD, MPH, Professor and Chair of Preventive and Restorative Dental Sciences at the University of California-San Francisco

PreventionGenetics Seminar Series

All seminars take place in Helix Hall at PreventionGenetics from 12noon-1pm.

Thursday, June 1st

Speaker: Moumita Chaki, PhD, PreventionGenetics

Topic: Intellectual Disability: An Overview

Grand Rounds (12:15-1:00 p.m. in the Froehlke Auditorium)

There will be no Grand Rounds on June 2nd.

Friday, June 9th

Health Literacy: A Prescription for Better Health and Health Care

Paul Smith, MD, a Professor at the Department of Family Medicine, University of Wisconsin School of Medicine and Public Health in Madison, WI

Friday, June 16th

Pharmacogenetics

Emili Leary, PharmD, PGY-1 Pharmacy Resident

Friday, June 23th

Beyond Screening: Medication Management of Transgender Patients

James Meyer, MD, Pediatrics Primary Care, Marshfield Clinic

Friday, June 30th

Pending: Liver Transplant

Dr. Luis Fernandez, UW Liver Transplant Surgeon

In Addition:

- The next MCRI Full Staff meeting is scheduled for July 27, 2017 at 2:30PM in the Froehlke Auditorium. Questions can be routed or emailed to Jeanette Normington at 1R3 or normington.jeanette@mcrf.mfldclin.edu.
- The next Board of Trustees meeting will be held on August 24, 2017 at 6PM in the Laird 50 conference room.
- For the latest UW-ICTR news, please visit: https://ictr.wisc.edu/news/.
- For updates on the Wisconsin Network for Health Research (WiNHR), please visit: https://ictr.wisc.edu/winhr
- The Marshfield Clinic Research Institute website can be accessed through this link: http://marshfieldresearch.org/.
- Archived issues of Research Matters are available online.

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