Welcome to the Spring Edition of Inside Pediatrics!

In this edition of Inside Pediatrics, we feature the Division of Pediatric Genetics, Metabolism, and Genomic Medicine and provide an update on the exciting progress made in our Michigan Medical Genetics Laboratories (MMGL).

We are pleased to also highlight recent faculty awards and appointments, the 2013 Program of the Year—Honorable Mention, and highly successful Inaugural Immuno-Hematology Symposium held on February 28.

It has been an exciting start to this year! I hope you will enjoy learning more about all of these areas Inside Pediatrics. Thank you for your continued support and the work you do in Pediatrics at Michigan.

Valerie P. Castle, MD
Ravitz Foundation Professor of Pediatrics and Communicable Diseases
Chair, Department of Pediatrics
Physician-in-Chief, C.S. Mott Children’s Hospital
University of Michigan Health System

Special items of interest:
- Safety Huddles
- Dance Marathon at UM
- Girls & Pearls Fundraiser
- Translational Oncology Program
- MMGL updates
- MWSPR Sutherland Award

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Department of Pediatrics & Communicable Diseases

Message from the Chair

Department Upcoming Events

Grand Rounds
Tuesdays, 8:00—9:00AM
F2305 MCHC Auditorium

April 29, 2014
Sudha Kessler, M.D.
“Antiepileptic Drug Selection in Children in the Era of Plenty”

May 6, 2014
PAS meeting
There will be no Grand Rounds.

May 13, 2014
Scholarly Activity Presentations

May 20, 2014
Brian Herbst, MD
Complicated Case Review

PAS Reception—Combined Michigan Universities
May 3, 2014
6:30PM–8:00PM
Crystal Pavilion A
Pan Pacific Vancouver Hotel

PAS Health Services Research Reception
May 3, 2014
7:15PM–8:45PM
Pacific Rim 1
Pan Pacific Vancouver Hotel

Translational Oncology Program
June 7, 2014
10:00AM–2:00PM
NCRC

Charles Woodson Biostatistics Consultation Program
For consultations and appointments contact kidwell@umich.edu

Faculty Development
Developing Successful Scientific Papers for Publication
May 13, 2014
3:00–4:30PM or May 14, 2014
7:30–9:00AM
Danto Auditorium, CVC

Time Management
May 22, 2014
2:00–3:30PM or May 22, 2014
7:30–9:00AM
Danto Auditorium, CVC

Essential Skills for Successful Leadership
June 5, 2014
7:30AM–4:30PM
South Atrium, NCRC

www.m.ummsfacultydevelopment.org/register
University of Michigan hospitals are using a classic team tactic—huddles—to make things safer and more efficient for patients and staff. These huddles are safety huddles—daily morning meetings that prep staff on necessary information, including patient admissions and discharges, problems with equipment, medication changes, support services, supplies and more. They run Monday through Friday, from 8:45 a.m. to 9 a.m.—a brisk 15 minutes right after bed briefing.

Although the safety huddles have never been mandatory, “everybody wants to come,” says Scott Marquette, intermediate project manager at U-M C.S. Mott Children’s Hospital and Von Voigtlander Women’s Hospital. A typical meeting includes charge nurses, ambulatory care bed managers, laundry managers, support staff, biomed, Office of Clinical Safety and MCIT (Medical Center Information Technology)—in short, everyone with information to give to others and/or a need to know. Marquette sends information gleaned from the huddle to 190 managers and staff across Children’s and Women’s via email.

“Like all hospitals, we have safety concerns,” says Chris Dickinson, M.D., professor of pediatrics and the architect, with Marquette, of the safety huddles. “To get people thinking about safety, you really have to change your culture. The safety huddles get people thinking about safety all the time. We talk about all sorts of error prevention strategies.”

The huddles started in January 2013 and work so well that more people are asking to attend. About 40 to 70 people attend each meeting, and about 96 percent of all patient care and support department areas are represented.

“Like all hospitals, we have safety concerns,” says Chris Dickinson, M.D., professor of pediatrics and the architect, with Marquette, of the safety huddles. “To get people thinking about safety, you really have to change your culture. The safety huddles get people thinking about safety all the time. We talk about all sorts of error prevention strategies.”

The Mott and Children’s hospital safety huddles will expand to the weekends in the near future. “As we all know, safety is not just a focus Monday through Friday,” says Marquette.

MWSPR Sutherland Award Recipient—Craig Byersdorfer, MD

The Annual Meeting for the Midwest Society for Pediatric Research (MWSPR) was held in Minneapolis, MN on October 10-11, 2013. University of Michigan Department of Communicable Diseases was well represented.

Craig Byersdorfer received the MWSPR Sutherland Award. The Sutherland Award is presented for the outstanding abstract presentation by a junior faculty member (<5 years on faculty).

Dr. Byersdorfer’s goal is to become an independent physician-scientist in pediatric bone marrow transplantation (BMT). His research focus lies in understanding the biologic basis of graft-versus-host disease (GVHD), the major complication following BMT and the primary obstacle to making this curative therapy available to more pediatric cancer patients. He has spent the past several years using the training from his PhD in Immunology to understand the biology of GVHD.

His training, both in the laboratory and in the clinic/hospital, position him not only to understand the clinical challenges of pediatric cancer and its treatment with bone marrow transplantation, but also to develop the next generation of therapies for transplant-related complications. He remains committed to a career in academic medicine, where he will continue to combine his clinical interest of caring for pediatric patients, with his laboratory interest of helping to generate future therapies for GVHD and other immune-mediated diseases.
Announcing Name Change for Division of Pediatric Genetics

The Dean’s office has formally approved the name change of Pediatric Genetics to the Division of Pediatric Genetics, Metabolism, and Genomic Medicine.

The Division has been in existence for over 40 years and has many new clinics. Since its inception, patients with a variety of malformations, syndromes, metabolic diseases, teratogenic diseases, chromosome abnormalities and cancer have been evaluated and managed.

This new name more accurately captures the breadth of the current and expanding clinical and research missions in metabolism and genomic medicine, and will improve the visibility and understanding of divisional functions for patients, families and physicians.

Michigan Medical Genetics Laboratories (MMGL)

The Michigan Medical Genetics Laboratories (MMGL) is a comprehensive clinical testing laboratory based in the University of Michigan Department of Pediatrics whose goals are to provide state of the art testing for rare genetic diseases, which in aggregate affect the lives of a high percentage of admissions to C.S. Mott Children’s Hospital. There are two separate MMGL sections, one for metabolic or biochemical genetic diseases such as those on the newborn screen, and one for DNA based molecular methods for inherited conditions.

The MMGL Molecular Genetics Laboratory has brought up BRCA1 and BRCA2 testing for UMHS patients and for Joint Venture Hospital Laboratories patients throughout the state of Michigan. The Joint Venture Hospital Laboratories (JVHL) network is comprised of 127 hospital-affiliated laboratories committed to providing managed care plan members and participating physicians with the highest quality, convenient and efficient laboratory services.

For further details regarding test specifications, specimen requirements, shipping and handling or CPT codes, please contact MMGL or visit the websites below.

Phone: 734-615-2429
http://www.pathology.med.umich.edu/handbook/
http://sitemaker.umich.edu/michigan.medical.genetics.laboratories/home

Hereditary Breast and Ovarian Cancer testing

- Todd Ackley, BS, M(ASCP)

Testing Strategies
Sanger Sequencing: The entire coding sequences (exons plus 50 bp on either side in the introns) are amplified using specific primers, and bidirectionally sequenced using Sanger sequencing. High quality primers, free of any known sites of single nucleotide polymorphisms (SNPs), are used for each coding exon.

Multiplex Ligation-dependent Probe Amplification (MLPA): Each exon of both BRCA1 and BRCA2 is targeted. Approximately 6-12% of individuals with Hereditary Breast and Ovarian Cancer syndrome carry whole or partial gene deletions or in BRCA1 or BRCA2 variant classification and interpretation of BRCA test results

MMGL adheres to high quality standards to perform molecular testing and to report accurate results. MMGL Medical Geneticists and the MMGL BRCA Committee interrogate all available relevant literature and sequence variant databases and incorporate provided clinical history in the analysis of the clinical significance of each sequence variant. MMGL follows the American College of Medical Genetics (ACMG) guidelines for sequence variant classifications (Richards et al. Genet Med 10(4):294-300, 2008). In all cases of BRCA based testing, we recommend that patients have professional counseling about their cancer risk management.
17th annual Dance Marathon at U-M to raise money for Mott

Dance Marathon was back for its 17th year at the University of Michigan on Saturday and Sunday, February 15-16, at the Indoor Track and Field Building, 1150 S. State St. in Ann Arbor. Dancers checked in at 8 a.m. Saturday, and once the event began, they'll stayed on their feet for 30 hours to raise money for pediatric rehabilitation programs at C.S. Mott Children's Hospital in Ann Arbor and Beaumont Children’s Hospital in Royal Oak.

DMUM is the largest, student-run nonprofit organization in the state, hundreds of visitors came to the Marathon to cheer on the dancers, offering massages or bringing (non-caffeinated) snacks or gifts; but visitors may also, while they're there, participate in crafts and activities, learn line dances, and play with DM kids. Tours for visitors will be provided on a rolling basis, but be warned: dancers don’t know what time it is – this makes the time go faster – so if you stop in, don’t share that information with them.

Though they were nothing more than a cultural fad in the ’20s and ’30s, dance marathons were resurrected by students at Penn State University in 1973, and Northwestern University in 1975, as fundraisers for charity. In 1997, U-M senior Inder Singh spearheaded the effort to bring Dance Marathon to U-M, and in 2012, the event broke the half-million dollar mark for fundraising.

Congenital Heart Ronald McDonald House Fund Raiser

The Girls and Pearls event will be held on Saturday, April 26, 2014 at 11:30am at the beautiful Barton Hills Country Club. This event will include a light luncheon, boutique shopping and themed basket auction. Your generous commitment through ticket purchase, table sponsorship or basket donation will directly benefit both of the Ronald McDonald Houses of Ann Arbor.

The silent auction for this event will be done through electronic bidding. This allows for great exposure for the auction donor as well as the capability to bid whenever, wherever through your cell phone or computer.

Any questions can be forwarded to Melissa Bauernfeind at mbauernfeind@rmh-annarbor.org

Make-a-Wish WAM Bicycle ride: July 24-27

The Make-a-Wish WAM Bicycle ride is the largest annual fundraiser for the Michigan Make-a-Wish foundation. Last year, nearly 1,200 cyclists raised over $2 million dollars. 2014 will be the 27th annual ride.

There are two ride options which includes 300 miles from Thursday to Sunday, July 24-27, 2014 and 50 miles on Sunday, July 27, 2014. Both routes have finished at the Michigan International Speedway in Brooklyn, MI in previous years.

University of Michigan Pediatrics/Mott Hospital team is comprised of doctors, nurses, staff, students, parents of Mott patients, and members of the local cycling community.

Please contact Neal Blatt at nblatt@med.umich.edu or visit the team website for more information.

wam2014.kintera.org/mott
New Initiative Integrates Patient and Family Perspectives into Pediatric Research at CHEAR: Patient & Family Research Council

The Patient and Family-Centered Care program (PFCC) and the Child Health Evaluation and Research Unit (CHEAR) have teamed up to start the first Patient and Family Research Council in the Division of General Pediatrics. This new initiative aims to better integrate the voices of pediatric patients and families into the development of child health research projects. The council represents patients or parents of patients who have a variety of childhood conditions. The committee is a mechanism for patients and families to contribute their perspectives on research at the initial stages of development while also providing an opportunity for patients and families to engage as partners in research once proposals have been funded.

CHEAR and PFCC hosted the first Patient and Family Research Council (PFRC) meeting on March 17, 2014. The group of ten council members commented on the research proposal by Dr. Beth Tarini regarding the value of providing genetic information to families as well as how to effectively communicate such information. Dr. Emily Fredericks presented on the use of mobile health (mHealth) technology, such as text messaging and social media, to promote self-management skills and medication adherence among adolescent transplant patients. According to Dr. Fredericks, “the opportunity to present my proposal was invaluable. The ideas shared regarding the use of technology were creative and innovative, and will be used to shape future research studies.”

The impetus to start the council began in response to the increasing demand for patient input in academic research from funding organizations. Dr. Tarini commented, “The parents were clearly passionate about helping shape research from which other children and their families could benefit.” A parent council member, Jesi Smith, noted she was “struck by the wealth of practical and specific knowledge families have about navigating the disease they deal with and navigating care within the medical community.”

The next scheduled PFRC meeting will take place in late spring. CHEAR is currently recruiting adult pediatric patients or parents of children who have experienced type II diabetes, obesity, and hypertension. For more information regarding the council or to become a council member please contact Kelly Parent, PFCC Program Manager, at 734.636.0079 or by e-mail at parentk@med.umich.edu.

Inaugural Immuno-Hematology Symposium Brings Together Scientists and Clinicians for a Day of Learning

On February 28th, 2014 the Immuno-Hematology Comprehensive Program (IHCP) held its first annual symposium for researchers, clinicians and students interested in disorders of the blood and immune systems.

The symposium consisted of talks by experts in the fields of bone marrow failure syndromes, neutrophil disorders, immune deficiencies and lymphoproliferative disorders; highlighted UofM research through both poster and oral presentations; and featured a patient case by the mother of Layla Hopper, the first child with a severe immune deficiency identified by the Michigan Newborn Screen TREC Assay, implemented in October 2011.

The day finished with two inspiring presentation by our best abstract submission, doctoral candidate Gregory Baker and our keynote speaker, Dr. Steven Holland, Chief of Laboratory of Clinical Infectious Disease and Immunopathogenesis Section at the NIAID/NIH.

“The inaugural symposium met its goal of being a confluence of individuals with clinical, translational and basic science interests. I hope our Immuno-Hematology Comprehensive Program will sustainably be a forum for education and research presentations that brings relevance and connections between investigators, clinicians and students for years to come,” Dr. Mark Hannibal, chair of the Immuno-Hematology Symposium, said in a statement.

The IHCP is excited to announce that next spring our second annual symposium (date TBD) will host Dr. Troy Torgerson, who is known for his work in primary immunodeficiency diseases at Seattle Children’s Hospital. We look forward to another exciting symposium and encourage all interested participants to visit our website for updates on next year’s symposium as well information on the IHCP’s other educational events held throughout the year: http://medicine.umich.edu/dept/immuno-hematology-comprehensive-program
It is my pleasure to share with you our plans for a new (and hopefully annual) event that will serve to engage our community and showcase the amazing cancer research that is being done here in Ann Arbor.

This event will be hosted by the Translational Oncology Program at NCRC on Saturday, June 7th, 2014. The research labs of Drs. Lawlor, Newman and Castle are all part of TOP and the scientists in our labs are among those organizing the event and volunteering their time on the day. On this day TOP scientists will donate a day of their time to move us One Day Closer to a cure for cancer.

In addition, an interactive public program is scheduled for 10am-2pm and will include informational seminars, lab tours and interactive learning stations.

Translational Oncology Program at NCRC—Saturday, June 7th, 2014

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Pediatric Academic Societies

You are cordially invited to attend a joint reception for faculty, alumni and friends at the annual meeting of the Pediatric Academic Societies

Sponsored by
University of Michigan Medical School
Department of Pediatrics and Communicable Diseases
Michigan State University College of Human Medicine
Department of Pediatrics
Wayne State University School of Medicine
Department of Pediatrics
Western Michigan University Homer Stryker M.D. School of Medicine
Department of Pediatric and Adolescent Medicine
Oakland University William Beaumont School of Medicine
Department of Pediatrics

May 3, 2014
6:30-8:00 p.m.
Crystal Pavilion A
Pan Pacific Vancouver Hotel
Vancouver, British Columbia, Canada

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Charles Woodson Biostatistics Consultation Program

Consultations are available for Faculty with primary appointments in the Department of Pediatrics as well as Residents, fellows, and staff who are working with an eligible faculty mentor (faculty mentors are expected to participate in the initial consultation meeting).

Consultation Office Hours
F2470 Old Mott
Monday & Friday
Kelley Kidwell PhD
Tuesday & Thursday
Nahid Keshavarzi MS

For questions related to the scope of consultations and appointments contact:
Kelley Kidwell, PhD
kidwell@umich.edu

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Hosted by:
Valerie P. Castle, M.D., Chair, UM
B. Keith English, M.D., Chair, MSU
Steven E. Lipshultz, M.D., Chair, WSU
Donald E. Greydanus M.D., Dr. HC (ATHENS), Chair, WMU
Brian Berman, M.D., Chair, OU

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Charles Woodson and Mott patient.
Welcome to our incoming Pediatric, Pediatric Child Neurology, and Medicine Pediatric Residents!

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<thead>
<tr>
<th>Name</th>
<th>Institution</th>
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<tr>
<td>Chinaemerem Agbakwuru</td>
<td>Howard University</td>
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<td>Michael Anacker</td>
<td>Wright State University Boonshoft School of Medicine</td>
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<td>Phoebe Danziger</td>
<td>University of Michigan School of Medicine</td>
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<td>Helene Doleyers</td>
<td>State University of New York Downstate Medical Center College of Medicine</td>
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<td>Sami El-Dalati**</td>
<td>Ohio State University College of Medicine</td>
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<td>Christopher Failing</td>
<td>University of North Dakota School of Medicine</td>
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<td>Morgen Govindan</td>
<td>University of Michigan School of Medicine</td>
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<td>Kerri Gramling*</td>
<td>Ohio State University College of Medicine</td>
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<td>Nicholas Helmstetter**</td>
<td>Wayne State University School of Medicine</td>
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<td>Jennifer Hemberg</td>
<td>University of Michigan School of Medicine</td>
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<td>Elizabeth Jahns**</td>
<td>University of Wisconsin School of Medicine and Public Health</td>
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<td>Robin Johnson*</td>
<td>University of Michigan School of Medicine</td>
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<td>Andrew Jones</td>
<td>University of Utah School of Medicine</td>
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<td>Prashantithi Kandavel</td>
<td>Chicago Medical School at Rosalind Franklin University of Medicine &amp; Science</td>
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<td>Annie Lu</td>
<td>University of Pittsburgh School of Medicine</td>
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<td>Madeline Mahowald**</td>
<td>Brown University The Warren Alpert Medical School</td>
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<td>Samir Patel</td>
<td>University of Virginia School of Medicine</td>
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<td>Nathan Patterson</td>
<td>Baylor College of Medicine</td>
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<td>Leeann Pavlek</td>
<td>Northeast Ohio Medical University</td>
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<td>Laura Peterson</td>
<td>Vanderbilt University School of Medicine</td>
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<td>Marie Pfarr**</td>
<td>Texas Tech University Health Sciences Center School of Medicine</td>
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<td>Alexander Podolsky</td>
<td>University of Arizona College of Medicine</td>
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<td>Trevor Pollock</td>
<td>Rush Medical College of Rush University Medical Center</td>
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<td>Angelico Razon**</td>
<td>University of California, Los Angeles David Geffen School of Medicine</td>
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<td>Jennifer Taylor**</td>
<td>University of Michigan Medical School</td>
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<td>Gabriela Tomlinson</td>
<td>University of North Carolina at Chapel Hill School of Medicine</td>
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<td>Shannon Wagner</td>
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<td>Kevin Walker</td>
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<td>Samuel Wilson**</td>
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<td>Kylene Wood</td>
<td>Baylor College of Medicine</td>
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*Combined Child Neurology

**Combined Medicine-Pediatrics
Program of the Year—Honorable Mention

Pediatric Renovascular Program for 2013 Program of the Year.

Although this program was not selected as the winner, it has been awarded an Honorable Mention in the Clinical Services category. For 31 years, the Program of the Year Award has recognized clinical and support programs which demonstrate innovation, improve the patient experience, exemplify visionary leadership, produce value, and keep a clear focus on the needs of our communities.

This recognition is a great honor that speaks to the superb work and dedication of the leadership and staff of the Pediatric Renovascular Program.

CONGRATULATIONS TO...

Dr. Aimee Armstrong presents: One Year Follow-up of the Melody Transcatheter Pulmonary Valve Multicenter Post Approval Study featured in the Clinical Trial Results from the ACC.

Dr. Rajen Mody for being awarded the St. Baldrick 2014 Summer Fellowship. This is a student award from SBF. A Stanford Undergrad who is now a first year medical student at University of Rochester will be working on a sarcoma survivorship project.

Dr. Andrew Singer for being the 2014 Bronze Beeper recipient. Every year Galens, Michigan’s oldest medical student society, awards Bronze Beepers to 12-15 residents who are outstanding teachers. Nominations were made and subsequently voted on by the entire M3 and M4 classes.

Dr. Timothy Johnson on his induction into the Johns Hopkins Society of Scholars. This is a true recognition of his many amazing contributions to academic medicine and alma mater. Dr. Johnson has significant relationships with the neonatology program as well as high risk OB service.

Samya Nasr, MB, BCh and the Pediatric CF Program who will be receiving the Quality Improvement Award. The site report from the CF Foundation was very positive, congratulations on this extraordinary report and the quality award.

Dr. Ryan Barbaro for being awarded the ECMO Euro ELSO Young Fellows award. The grant will support his travel and accommodations in Paris where he will be presenting his research and attending a pre-conference ECMO course.

Dr. Julie Lumeng as the newly elected council member to SPR representing Behavioral Developmental Pediatrics. She has had experience on the mentoring committee and finds it inspiring.

Dr. Catherine Keegan for being inducted into the American Society for Clinical Investigation. She is the Associate Professor of Pediatrics and Human Genetics.

Dr. Vivian Cheung for being selected as the Vice President-Elect of the American Society for Clinical Investigation with this election she will serve as the President-Elect in year two and President in year three. The ASCI is an honorary society to which physician-scientists from all medical specialties belong. Members
Inside Pediatrics

Editor, Kristy Brown (kribro@umich.edu) 734-763-9326

Associate Chair for External Affairs: Gary L. Freed, MD, MPH (gfreed@umich.edu) 734-615-0616

Inside Pediatrics is published quarterly by the Office of the Chair. Suggestions or submissions for this newsletter should be directed to Kristy Brown (kribro@umich.edu).

**Broad topics are encouraged and welcomed!**

*SPRING Into Action with W.O.W.*

The Department of Pediatrics Wellness Orientated Workplace program launches a new series called “Spring into Action” in the month of May. Everyone is invited to participate in this divisional challenge that will keep us moving all season. Decide now to join us as we “Spring into Action! Stay tune for details.

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