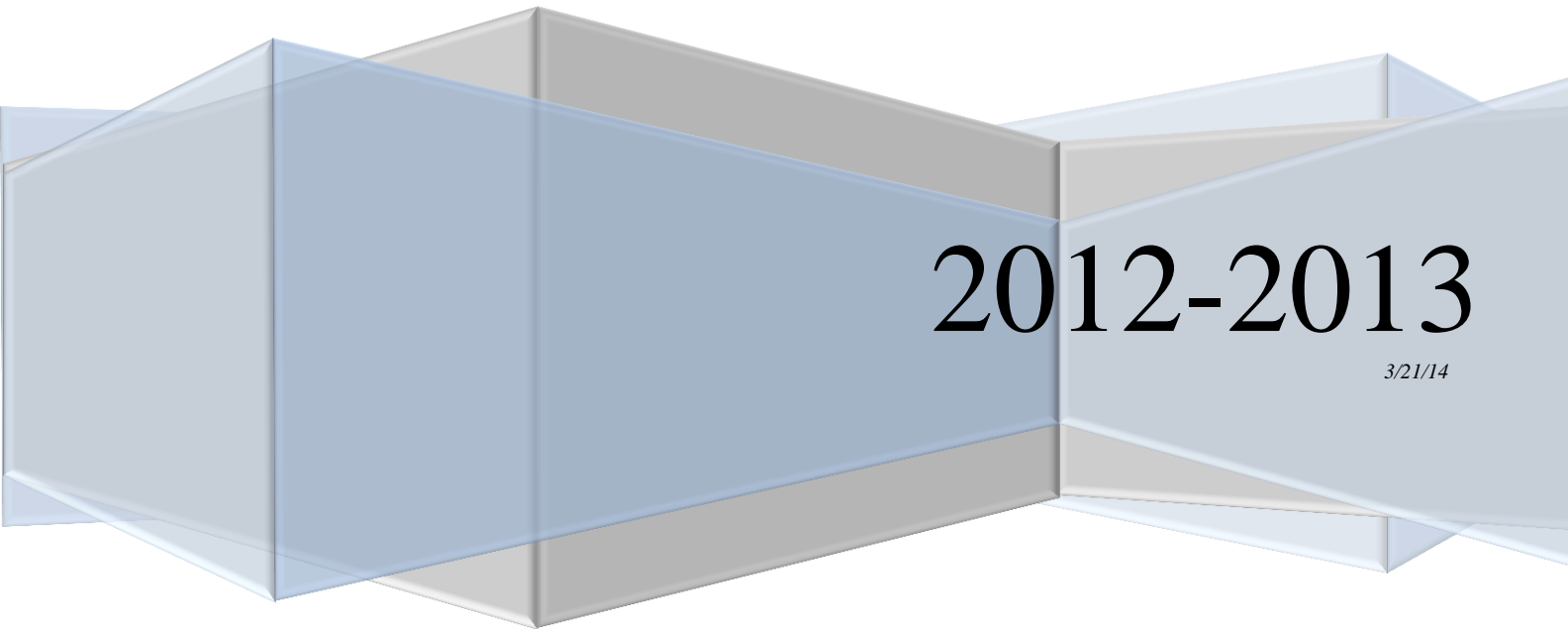


GME Annual Report

MSU-CHM Lansing Community



2012-2013

3/21/14

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**Michigan State University
College of Human Medicine
Graduate Medical Education—Lansing Community Campus
Annual Report
Academic Year 2012-13**

Introduction

The CHM Graduate Medical Education programs in the Lansing community have concluded the 2012-13 academic year with continued excellence in the provision of training for our future physicians. This report will highlight the activities of the GME office and the Graduate Medical Education Committee over the past academic year, with special attention to the significant accomplishments of our many programs, residents, fellows, and faculty.

Graduate Medical Education Office

The GME office continued its sponsorship of quarterly resident forums. We continue to encourage participation from all of our sponsored residents and fellows as robust attendance is the key to hearing the voices of our learners.

With the transition of our programs to the ACGME's Next Accreditation System, requirements for periodic internal reviews have been removed as programs transition to the NAS. Under the new system, focused reviews will be triggered by a number of events (such as duty hours violations or failure to reach thresholds on outcomes measures). We expect to continue reliance on our partners at GMEI, Inc., to assist with this process.

The GME office assisted in the development of a new fellowship program in vascular surgery which received initial accreditation this year. The program is based at the Michigan Vascular Institute in conjunction with our partners at McLaren—Flint and is under the directorship of Carlo Dall'Olmo, MD.

Graduate Medical Education Committee

The Graduate Medical Education Committee met at each of its scheduled quarterly sessions. During each meeting, roundtable discussions were held with contributions from each program director. These discussions included the following areas:

- Resident supervision - Each of our program directors report at every meeting regarding supervision issues. Individual issues have been appropriately managed and no global concerns regarding appropriate supervision have been raised.

- Resident responsibilities— The GMEC monitors resident activities with respect to appropriate responsibility for patient care and peer education at its quarterly meetings. While issues have arisen with respect to scope of responsibility due to shifting duty hour requirements (see below), each of the programs continues to appropriately distribute tasks and monitor education and patient care to assure that resident educational goals are met within the scope of individual program requirements.
- Resident evaluation—All programs have internal policies regarding evaluation of their trainees. All continue to use electronic means for recording regular evaluations (New Innovations or E-Value).
- Duty hour compliance—The GMEC continues to monitor duty hours violations among our programs. We expect that most reported incidents are handled at the program level and very few (if any) reach the GMEC as true violations.
- Resident participation in patient safety and quality of care education— The GMEC has recognized the important role of residents and fellows in carrying out the quality initiatives of our sponsoring and partner institutions. To that end, regular quality improvement topics are presented to the GMEC and the resident forum at each meeting. Beginning in the academic year 2013-14, each program has been asked to offer certificate training through the Institute for Healthcare Improvement (or equivalent training) for all residents. In the academic year 2014-15, this will become a requirement for all learners in our sponsored programs.
- Resident compensation and benefits—Compensation and benefits were reviewed by GMEC members after the June, 2013, GMEC meeting, as the results of the annual MAME survey were not available until after the meeting. Compensation and benefits were found to be within the range of compensation packages offered at residency programs across the state, according to the most recent survey by MAME.

As our programs transition to the NAS, the sponsoring institution will also transition. In the new system, much of the institutional focus will shift towards the clinical learning environment and previous site visits will shift towards periodic self-study. The components of the clinical learning environment expected by the ACGME are: patient safety, quality improvement, transitions of care, duty hours oversight and fatigue mitigation, supervision and professionalism. As we progress through the upcoming academic year, the focus areas for the GMEC will shift to coincide with the CLER areas.

Highlights of each program are attached.

Respectfully submitted,



Randolph L. Pearson, MD
Assistant Dean for Graduate Medical Education
MSU-CHM

**College of Human Medicine
Michigan State University
Lansing Community Residency/Fellowship Annual Report
Academic Year: 2012-2013**

Program Name: Cardiology Fellowship

Program Director: George S. Abela, MD, MSc, MBA, FACC, FNLA

Graduating residents and destinations:

1. Pavan Kotaru – Interventional Program at Borgess, Kalamazoo, MI
2. Marwan Dib - Interventional Program at Borgess, Kalamazoo, MI
3. Jagadeesh Kalavakunta - Interventional Program at Borgess, Kalamazoo, MI
4. Victor Hajjar – Private Practice – West Michigan Heart, Grand Rapids, MI
5. Keerthy Narisetty – Heart Failure Fellowship – Emory – Atlanta, GA

Incoming residents and medical school attended:

1. Ali Al Arab – Jordan University of Science and Technology, Jordan
2. Madhab Lamichhane – Manipal College of Medical Science, Nepal
3. Prem Srinivas Subramaniam – Kipauk Medical College, India
4. Fadi Alreefi – Taibah University, Saudi Arabia

Faculty changes

1. None

Major accomplishments over previous year:

1. The cardiology fellowship program graduated the 50th fellow since it was started in 1995. Graduates are now practicing all around the US and globally.
2. All four third year fellows took the ECHO Board and Nuclear Cardiology Board passed, with one excelling in the 99th percentile.
3. All fellows are in subspecialties in highly ranked programs.

Research publications/presentations (resident and faculty):

Peer Reviewed Manuscripts:

1. Alsara O, Rayamajhi S, Ghanem F, Skaf E, Abela GS. Atypical initial presentation of primary cardiac pleomorphic sarcoma as a nagging back pain in a teenager *Tex Heart Inst J* 2013;40:339-342, 2013.
2. El-dakdouki MH, El-boubbou K, Kamat M, Huang R, Abela GS, Kiupel M, Zhu DC, Huang X. CD44 targeting magnetic glyconanoparticles for atherosclerotic plaque imaging *Pharm Res* DOI 10.1007/s11095-013-1021-8.

3. Raju, MG, Pachika A, Punnam SR, Gardiner JC, Shishehbor MH, Kapadia SR, Abela GS. Statin therapy in the reduction of cardiovascular events in patients undergoing intermediate-risk non-cardiac, non-vascular surgery *Clin Cardiol* 2013 May 13. doi: 10.1002/clc.22135.
4. Alsara O, Kalavakunta JK, Laird-Fick H, Abela GS. Isolated Left Main Coronary Artery Stenosis after Thoracic Radiation Therapy: To Operate or Not to Operate. *Case Reports in Medicine* Vol 2013 (2013), Article ID 834164.
5. Kim J, Laird-Fick HS, Alsara O, Gourineni V, Abela GS. Pericarditis in Takotsubo Cardiomyopathy: A Case Report and Review of the Literature. *Case Reports in Cardiology* Vol 2013 (2013), Article ID 917851.

Abstracts

1. Janoudi A, Opreanu M, Parameswaran N, Nasiri M, Abela GS. Extracellular Cholesterol Crystals Induce an Inflammatory Response in Macrophages. *J Am Coll Card* 61:Suppl A17; 2013.
2. Kotaru P, Janoudi A, Huang R, Abela GS. Cholesterol Lowering with Simvastatin and Ezetimibe Inhibits Cholesterol Crystal Formation and Associated Inflammation. *J Am Coll Card* 2014 (in press).
3. Raju M, Kalra A, Gardiner J, Janoudi A, **Abela GS**. Interaction between Cholesterol Crystals and Bacteria: Implications for Atherosclerosis. National Lipid Association Meeting (in press).

Book Chapters:

1. Kalavakunta JK, Ahmado I, Abela OG, Abela GS. Myocardial infarction imaging. In: *Advances in Myocardial Infarction Management*. Ottervanger JP (Ed.). Future Medicine, London, UK. DOI: 10.2217/EBO.12.473 (2013).

Honors (resident and faculty):

1. Victor Hajjar, MD Cardiology fellow received the Best Fellow Poster Award during Resident's Research Day. "Vitamin D₃ may Impact Cardiovascular Events by Altering Cholesterol Crystallization"
2. Three fellows were recognized and appreciated by the nursing staff (4S) at Sparrow Hospital (Drs. Marwan Dib, Pavan Kotaru, Jags Kalavakunta)
3. Dr. George Abela was elected to 'Best Doctors in America' and 'America's Top Cardiologists' for the fourth year in a row.

Challenges/opportunities for upcoming year:

1. Coordinating activities with the DO fellowship program moving from McLaren to Sparrow Hospital.

Briefly indicate at least one way your program addresses each of the ACGME Core Competencies:

Patient Care: Comparing vascular Doppler/Echo readings for Carotid stenosis with CT angiography which is the gold standard. This will determine if our Doppler/Echo readings are equivalent.

Medical Knowledge: This is assessed during monthly and mid-year evaluations based on the various skill sets being taught during rotations.

Practice-based Learning and Improvement: This is assessed during monthly and mid-year evaluations based on the various activities during the rotations. This includes providing medical literature at meetings as well as during rounds to improve patient care.

Interpersonal and Communications Skills: Patient evaluation forms provide feedback on communication skills. Some of the questions are “The doctor listened to me; The doctor answered my questions fully.”

Professionalism: Patient evaluation forms provide feedback on professional skills. “The doctor respected and cared about me.”

Systems-based Practices: This is assessed during monthly and mid-year evaluations based on the various activities during the rotations. This is done by assessing when patients are being evaluated for coronary bypass surgery vs. percutaneous interventions as an example. Consultation and discussion with cardiac surgery and interventionalist are conducted by the fellow on the service.

College of Human Medicine
Michigan State University
Lansing Community Residency/Fellowship Annual Report
Academic Year: 2012-2013

Program Name: Child and Adolescent Psychiatry Residency
Program Director: Madhvi Phadtare Richards, MD

Graduating residents and destinations:

1. Joseph Riemann, DO, Ohio
2. Marie Beasley, DO, completing general psychiatry residency, MSU

Incoming residents and medical school attended:

1. Tiana Ekhande, COM, MSU
2. Joel Sanchez, CHM, MSU

Faculty changes

1. Janice Coates, MD resigned from DeVos Children's Hospital. She was adjunct clinical faculty for the CL rotation.

Major accomplishments over previous year:

1. Involving child residents in research opportunities in Malawi and Uganda, Africa.
2. Presentations by various faculty at The Professional Scientific Training Conference on Children's Social and Emotional Wellbeing, Amman, Jordan. In conjunction with UNICEF and UNFPA and Jordan River Foundation.
3. Ley A, Title: The Joy Initiative: A Study of the Efficacy of Mindfulness and Joy-Focused Psychosocial Interventions on Wellness in Nursing and Medical Students. This has been very helpful and well received by both COM and CHM.

Research publications/presentations (resident and faculty):

Boivin, M. Vokhiwa, M. Page, C. Magen, J. The correspondence validity of Malawian preschool developmental assessment and school-age neurocognitive performance in the longitudinal assessment of severe malaria. Ugandan Health Scientists' 14th Annual Scientific Conference May 30-31, 2013. Makerere University, Kampala Uganda

Boivin, M Vokhiwa, M Magen, J. The correspondence validity of Malawian preschool developmental assessment and school-age neurocognitive performance in the longitudinal assessment of severe malaria. The Lancet Volume 381, Page S18, 17 June 2013

Magen J, Aggression in Children and Adolescents. Mott Children's Health Center/Michigan State University Child and Adolescent Psychiatry Update, Flint Michigan April 24, 2013

Magen J, Graduate Medical Education Financing, The Future, Plenary Session, American Association of Directors of Psychiatric Residency Training, Ft. Lauderdale, Florida March 2013

Ley A, "Childhood Depression-Child and Adolescent Psychiatry Update" Mott Children's Health Center and Michigan State University. Holiday Inn Gateway Center. Flint, Michigan. April 24, 2013.

Ley A, Title: The Joy Initiative: A Study of the Efficacy of Mindfulness and Joy-Focused Psychosocial Interventions on Wellness in Nursing and Medical Students
Primary Investigator: Alyse Ley DO Co- Investigators-Miko Rose DO, Dale D'Mello MD, Daniel Cote DO

Quinlan P, 2013-present, Data Safety Monitoring Board Member: Telemonitoring Enhanced Support for Depression Self Management, NIH award 1R01MH096699-01A1 PI-James Aikens

Quinlan P, 2012-present, MSU Chair for National Institutes of Health's Introduction to the Principles and Practice of Clinical Research

Quinlan P, 2006-present, Research Training Director-Introduction to Psychiatry Research for Medical Students

Quinlan P, 2009-present, Standardization of Codebooks from the National Institute of Mental Health Clinical Trials Limited Access Datasets IRB# x09-592

P. Quinlan: Pediatric Psychopharmacology. Mott Children's Health Center and Michigan State University Child and Adolescent Psychiatry Update. April 24, 2013. Flint, MI.

P. Quinlan: Hurley Medical Center 2013 Pediatric Update on the Management and Psychopharmacology of Pediatric Psychiatric Conditions. May 1, 2013. Flint MI.

Scheid J, 2013, "Mood Disorders in Children and Adolescents" for Pediatric Grand Rounds Sparrow Hospital

Scheid J, 2013, “Defiant and Antisocial Behavior in Children and Adolescents” for Pediatric Update, College of Osteopathic Medicine

Scheid J, 2013, “Treating youth with psychotropic medications” for Michigan Federation for Children and Families conference

Scheid J, 2013, “Eating Disorders” Rural Grand Rounds, MSU Psychiatry/Family Medicine Summer 2013

Scheid J, 2013, “DSM-5 Update: Changes Relevant to You” MIAAP Annual Meeting Fall 2013

Scheid J, 2013, “Medications in Kids” MI Statewide Wraparound Conference

Magen J, Richards M & Ley A., (2013) A Proposal for the “Next Generation Psychiatry Residency”: Responding to Challenges of the Future, *Journal of Academic Psychiatry*, 37:6, 375

Richards M, October 2013, ADHD, Anxiety disorders and Depression in Children and Adolescents, The Professional Scientific Training Conference on Children’s Social and Emotional Wellbeing, Amman, Jordan.

Richards M, August 2013 Teaching Residents and Medical Students with Telemedicine at Michigan State University, 1 Congreso Nacional de Telemedicina, Merida, Mexico

Richards M, April 2013 ADHD in Children and Adolescents, MSU-Mott Children’s Health Center and State wide campus system conference, Flint MI

Boivin M - GRANTS

Active

RO1 HD073296 (Boivin, Fowler)	08/01/2012 – 07/30/2017
NIH/NICHD	\$2,396,524

Developmental and Growth Outcomes for ARV Exposed HIV Uninfected African Children.

This study will be embedded within the NIH IMPAACT-sponsored PROMISE clinical trials on the pre- and post-natal use of different regimens of ARV to prevent mother-to-child transmission of HIV. We will evaluate the neurodevelopmental (12 and 24 months of age) and neuropsychological (60 months of age) effects of duration and type of exposure to ARV for children born to mothers in this clinical trial. This study will take place at the Uganda and Malawi PROMISE study sites, and will also evaluate neurological and hematological outcomes. Role: PI

3R01HD070723 (Boivin, Bass)	03/01/2013 – 02/30/2017
NIH/NICHD	\$823,339

Type 3 Supplemental Grant: Enhancing Ugandan HIV-affected child development with caregiver training.

We will evaluate the effectiveness of our caregiver training intervention within a randomized controlled trial (RCT) for both HIV-infected and affected Ugandan children in the household, in addition to the target child. This study emphasizes both developmental outcomes for the children, quality of caregiving at home, and psychosocial benefit outcomes for caregivers. Role: PI

R01HD070723 (Boivin, Bass) 08/01/11 – 07/31/16
NIH/NICHD \$2,304,641

Enhancing Ugandan HIV-affected child development with caregiver training.

We will evaluate the effectiveness of our caregiver training intervention within a randomized controlled trial (RCT) for both HIV-infected and affected Ugandan children. This study emphasizes both developmental outcomes for the children, quality of caregiving at home, and psychosocial benefit outcomes for caregivers. Role: PI

D43TW009082 (John) 06/01/11 -
05/31/16
NIH/FIC \$207,856 (annual direct
cost)

Research training in infection and neurodevelopment in Uganda.

Training will include an emphasis on infection-related long-term morbidity, a diverse mix of trainees from multiple disciplines and at all levels, integrated core training that is required of all degree students, and development of mentorship capacity for Ugandan faculty as part of the training program. Role: Mentor

Collaborative Initiative for Paediatric HIV Education and Research (CIPHER) Grant Programme

International AIDS Society \$128,000 (07/01/2013-
06/24/2015)

Does HIV subtype moderate ART effect on neurocognitive functioning in children?

Aim 1: To compare neurocognitive outcomes in children with subtype A and D who are on HAART. The *working hypothesis* here is that subtype A is more pathogenic in the brain than subtype D and this will manifest in lower neurocognitive scores in the subtype A group. Aim 2: To examine the moderating effect of HIV subtype on HAART's ability to improve neurocognitive outcomes.

Role: Mentor

R01HD064416 (Boivin, Nakasujja) 04/01/2011-03/31/2016
NIH/NICHD \$2,554,870

Computerized cognitive rehabilitation in children after severe malaria.

This study will evaluate the neuropsychological benefits of computerized cognitive rehabilitation therapy (CCRT) for Ugandan school children surviving severe malaria.

Role: PI

R01ES019841 (Tshala-Katumbay) 04/01/2011-03/31/2016
NIH/NIEHS \$1,684,676
Toxicodietary and Genetic Determinants of Susceptibility to Neurodegeneration.
This study will evaluate cassava toxins and the occurrence of a motor system disease, known as konzo, in the DR Congo with field assays to evaluate the pathogenic mechanisms of cassava neurotoxicity on human motor and cognitive abilities. Role: Co-I

R34MH084782 (Boivin) 03/01/2010-02/28/2014
NIH/NIMH \$571,163
Neuropsychological Benefits of Cognitive Training in Ugandan HIV Children.
This study will evaluate the neuropsychological benefits of computerized cognitive rehabilitation therapy (CCRT) for Ugandan school children with HIV. Role: PI

MSU Discretionary Funding Initiative (DFI) (Boivin) 09/01/2012 – 08/21/2014
Office of the Vice President for Research and Graduate Studies \$60,000
Neuropsychological Benefits of Cognitive Training in Ugandan and Kenyan HIV Children.
Development of mobile-network based cognitive rehabilitation programs (Brain Powered Games or BPG) for submission of an RO1 type 3 supplement submission for RO1HD064416 (PI: Boivin, Nakasujja). This study is entitled “Computerized Cognitive Rehabilitation in Children after Severe Malaria.” Role: PI

RO1NS055349 (John) 5/01/2008-3/30/2014
NIH/NINDS \$2,660,830
Pathogenesis of Cognitive/neurologic Deficits in Central Nervous System Malaria (Uganda).
This study investigates the association of immunologic factors with neurocognitive sequelae in Ugandan children with severe malaria. Role: Co-I

U01HD064698 (John) 10/01/2009 – 01/30/2014
NIH/NICHD \$1,218,000
Acute vs. Delayed Iron Therapy: Effect on Iron Status, Anemia and Cognition.
This project’s goal is to study the neurocognitive impact of early versus late iron supplement treatment for severe malaria anemia in Ugandan children. Role: Other Significant Contributor

UM1 AI068632 (Boivin) 06/01/2012 – 05/31/2015
NIH/DAIDS \$480,300
A Longitudinal Developmental and Neuropsychological Assessment of the P1060 Clinical Trial Cohorts and HIV-uninfected Controls
I am serving as Protocol Chair for substudy P1104s, whereby children at seven of the P1060 clinical trial sites will be co-enrolled for a neuropsychological evaluation of the outcomes for the two principal treatment arms (Nevirapine and Kaletra) of IMPAACT-sponsored P1060 clinical trials. Both HIV-exposed (noninfected) and non-exposed reference groups will be recruited from the study sites.
Role: Protocol Chair

R01HD074261 (Butler) 08/01/2012 – 06/30/2016
NIH/NICHHD
Comparative Effectiveness of Pediatric HIV Disclosure Interventions in Uganda.
The results of the proposed trial will provide much needed evidence as to the effectiveness of a holistic cognitive-behavioral intervention designed to support caregivers and their HIV-infected children through the process of disclosure, compared to counseling offered to caregivers as per standard practice. Importantly, the study will examine both short- and long-term effects of the intervention and disclosure, and will explore the association between child and caregiver cognitive ability and disclosure outcomes. Role: Consultant

R01HD071664 (van der Kouwe, Willem, Meintje, Laughton) 09/01/11-06/30/16
NIH/NICHHD
Longitudinal Neuroimaging and Cognitive Study of HIV-Infected Children.
MRI neuroimaging and neurodevelopmental assessment at 5, 7 and 9 years of 124 HIV infected South African children and 44 controls that have been followed since birth from the CHER clinical trial with early ART (40 weeks), ART at 90 weeks, and deferred ART (not till clinically needed). Role: Consultant

R21MH097115 (Huang) 5/01/2013-2/30/2015
NIH/NICHHD
Disseminating a School Based Child Mental Health Prevention Program in Uganda.
Four specific research questions will be studied: 1) what is the capacity of Ugandan public schools in delivering a health promotion program? 2) Is it feasible to have teachers to deliver the child program in such schools? 3) What are the potential barriers in implementing such a program in these schools? 4) What are the teachers' cultural beliefs, knowledge and skills in child development and key health issues? Role: Consultant

Canada Ministry of Health/Grand Challenges (Tumwine) 9/01/2012-8/31/2014
Grand Challenges Canada Saving Brains \$1,000,000
Neuropsychological Assessment Battery for 5 to 7 yr old Rural African Children in Uganda and Burkina Faso.
Exclusive breastfeeding (EBF) has been associated with better cognition in some developed countries. In this project scientists from Makerere University (Uganda) and Centre Muraz (Burkina Faso) will assess whether EBF promotion enhances human capital formation including cognitive function, mental and general health, among a cohort of 5-7 year old children.
Role: Consultant

12-DFI-COM (Boivin) 7/01/2012-6/30/2014
Michigan State University VPRGS Office \$48,000 (COM cost share \$12,000)
Neuropsychological benefits of cognitive training in school-age Ugandan HIV children.

This is a preliminary study of the neurocognitive and psychosocial benefits of Brain Powered Games computer package in school-age children with HIV in Kayunga, Uganda. Role: PI

D43TW009608-01 (Taiwo) 7/01/2013-6/30/2018
D43 grant for a NeuroAIDS research training program at the University of Ibadan, Nigeria (UI)

This 5-year grant brings experts from University of Illinois, UNC, Northwestern, University of Chicago, Harvard, Michigan State University, and the University of Buffalo together to develop NeuroAIDS research excellence at UI. Role: Advisory Board Member

D43TW009609-01 (Taha) 9/01/2013-8/31/2018
Training in HIV-related Non-communicable Disease Complications in Malawi

To train Malawian scientists from diverse fields (physicians, nurses, technologists, basic scientists, epidemiologists, data analysts, etc.) to strengthen research capacity for better diagnosis and research, clinical management, and etiologic research in HIV-related NCD complications. Role: Mentor

13-CTSI-204 (Boivin, Winn) 11/01/2013-12/31/2014
Michigan State University Clinical Translational Science Institute (CTSI) \$25,000 (Psychiatry cost share)

Pilot testing of Brain Powered Games for cognitive rehabilitation of Ugandan children with HIV

This grant is to continue pilot testing of the neuropsychological benefits of Brain Powered Games computer package and obtain clinical lab results in Ugandan HIV children in Kayunga. Role: PI

International AIDS Society CIPHER award (Bangirana) 05/01/2013-04/30/2015
Collaborative Initiative for Paediatric HIV Education and Research (CIPHER) Grant Programme \$128,000. *Does HIV subtype moderate ART effect on neurocognitive functioning in children?*

This project is to evaluate HIV-I subtype effects on neuropsychological function in Uganda children in Tororo. Role: Mentor

University of Michigan Global Reach Faculty-Mentored Structured Summer Overseas Projects for Medical Students. (Giordani, Boivin) 06/01/2013-8/31/2016
UM Medical School Global Reach Program \$20,000/year for 3 Years
Cognitive Rehabilitation with HIV positive Children in Uganda.

This project sponsors UM medical students each summer between their M1 and M2 years for an 8-week cognitive rehabilitation research program with Ugandan HIV school children. Role: Co-PI

Completed

University of Michigan Global Reach Faculty-Mentored Structured Summer Overseas
Projects for Medical Students. (Giordani, Boivin) 06/01/2010-8/31/2013
UM Medical School Global Reach Program \$20,000/year for 3 Years

Cognitive and family intervention trials (Uganda)

This project sponsors UM medical students each summer between their M1 and M2 years for an 8-week cognitive rehabilitation research program with Ugandan HIV school children. Role: Co-PI

Koura, G.K., **Boivin, M.J.**, Davidson, L.L., Ouédraogo, S., Zoumenou, R., Alao, M.J., Garcia, A., Massougboji, A., Cot, M., & Bodeau-Livinec, F. (2013). Usefulness of child development assessments for low-resource settings in francophone Africa. *Journal of Developmental and Behavioral Pediatrics*, 34:486–493, 2013). (IF = 2.14).

Boivin, M.J., Okitundu, D., Bumoko, G.M-M., Sombo, M-T., Mumba, D., Tylleskar, T., Page, C., Tamfum-Muyembe, J-J., & Tshala-Katumbay, D. (2013). Neuropsychological effects of konzo: a neuromotor disorder associated with cassava. *Pediatrics*, 131(4), e1231-e1239; published online March 25, 2013 (doi: 10.1542/peds.2012-3011). (IF = 5.44). Featured in the *New York Times* article “Cassava and mental deficits” by Donald G. McNeil, Jr.; 22-April-2013. Also featured in the global health section article “Cognitive effects of konzo” by Mary Jane Friedrich; *JAMA*, May 15, 2013—Vol 309 (19); p. 1985.

Laughton, B., Cornell, M., **Boivin, M.J.**, & Van Rie, A. (2013). Neurodevelopment in perinatally HIV-infected children: a concern for adolescence. *Journal of International the International AIDS Society*, 2013, 16(1), 18603; <http://dx.doi.org/10.7448/IAS.16.1.18603>. (IF = 3.26).

Boivin, M.J., Bangirana, P., Nakasujja, N., Page, C., Shohet, C., Givon, D., Bass, J., Opoka, R.O., & Klein, P. (2013). A year-long caregiver training program to improve neurocognition in preschool Ugandan children affected by HIV. *Journal of Developmental and Behavioral Pediatrics*, 34(4); 269-278; DOI: 10.1097/DBP.0b013e318285fba9. (IF = 2.14).

Boivin, M.J., Bangirana, P., Nakasujja, N., Page, C., Shohet, C., Givon, D., Bass, J., Opoka, R.O., & Klein, P. (2013). A year-long caregiver training program to improve neurocognition in preschool Ugandan children with HIV. *Journal of Pediatrics*, Nov;163(5):1409-1416.e5. doi: 10.1016/j.jpeds.2013.06.055. Epub 2013 Aug 16. (IF = 4.15)

Bangirana P., Menk J., John C.C., **Boivin M.J.**, & Hodges J.S. (2013). The association between cognition and academic performance in Ugandan children surviving malaria

with neurological involvement. *PLoS One*, 2013; 8(2):e55653. doi: 10.1371/journal.pone.0055653. Epub 2013 Feb 1 (IF = 5.68)

Postels, D.G., Chimalizeni, Y.F., Mallewa, M., **Boivin, M.J.**, & Seydel, K.B. (2013). Pediatric cerebral malaria: a scourge of Africa. *Future Neurology*, 8(1), 67–85. (IF = 2.46)

Tshala-Katumbay, D., Mumba, D., Okitundu, D., Kazadi, K., Banea, M., Tylleskar, T., **Boivin, M.J.**, & Tamfum-Muyembe, J-J. (2013) Cassava food toxins, konzo disease and neurodegeneration in sub-Sahara Africans. *Neurology*, 80, 949-951; DOI 10.1212/WNL.0b013e3182840b81. (IF = 8.31).

Joseph, J., Achim, C., **Boivin, M.**, Brew, B., Clifford, D., Colosi, D., Ellis, R., Heaton, R., Gallo-Diop, G., Grant, I., Kanmogne, G., Kumar, K., Letendre, S., Marcotte, T., Nath, A., Pardo, C., Paul, R., Pulliam, L., Robertson, K., Royal, W., Sacktor, N., Sithinamsuwan, P., Smith, D., Valcour, V., Wigdahl, B., Wood, C., & Rausch, D., (2013). Global NeuroAIDS Roundtable. *Journal of Neurovirology*, 2013 Feb;19(1):1-9. doi: 10.1007/s13365-012-0143-9. Epub 2013 Jan 26. (IF = 2.31).

Book Publication

Boivin, M.J. & Giordani, B. (2013). Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. American Academy of Pediatric Neuropsychology (AAPdN) Specialty Topics in Pediatric Neuropsychology, DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media Publications (ISBN 978-1-4614-6833-2; ISBN 978-1-4614-6834-9 eBook).

Book Chapters

Boivin, M.J., Wouters, H., & Giordani, B. (2013). Introduction: the neuropsychology of African children within a co-constructivist paradigm. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 1-16.

Busman, R.A., Page, C., Oka, E., Giordani, B., & **Boivin, M.J.** (2013). Factors contributing to the psychosocial adjustment of Ugandan preschool children with HIV/AIDS. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 95-116.

Busman, R.A., Oka, E., Giordani, B., & **Boivin, M.J.** (2013). Examining the psychosocial adjustment and school performance of Ugandan children with HIV/ AIDS. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 117-138.

Lorencz, E.E., & **Boivin, M.J.** (2013). Screening for neurodisability in low-resource settings using the Ten Questions Questionnaire. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 139-154.

Boveau-Livenec, F., Cot, M., Koura, G.K., & **Boivin, M.J.** (2013). Assessing the effects of maternal anemia on child development in Benin. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 203-214.

Holding, P. & **Boivin, M.J.** (2013) The assessment of neuropsychological outcomes in pediatric severe malaria. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 235-276.

Bangirana, P., **Boivin, M.J.**, & Giordani, B. (2013). Computerized cognitive rehabilitation therapy (CCRT) for African children: evidence for neuropsychological benefit and future directions. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 277-298.

Boivin, M.J., Dobias, K., & Giordani, B. (2013). Postscript: towards a universal brain/behavior omnibus in the neuropsychology of African children. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 329-333.

PLATFORM AND POSTER PRESENTATIONS AND PUBLISHED ABSTRACTS FOR LEARNED SOCIETIES AND ORGANIZATIONS

1. **Boivin, M.J.** & Giordani, B. (2014, June 25). *The application of neuropsychology with children in Africa: assessing risk and resilience*. Invited workshop to the 12th annual meeting of the American Academy of Clinical Neuropsychology, New York, NY; September 25-28, 2013.

2. Brahmabhatt, H., Gray, R., **Boivin, M.**, Ssempijja, V., Matovu, I., Kigozi, G., Kagaayi, J., & Serwadda, D., (2013, September 12). *Prospective study assessing neurodevelopmental benefits of anti-retroviral therapy in Ugandan children 0-6 years of age with HIV*. Platform presentation at the 17th annual International Conference on AIDS and STIs in Africa; Cape Town, South Africa; December 7 – 11, 2013.
3. Bumoko, G.M., Okitundu, D., Sombo, M-T., Ngoyi, M., Tylleskar, Tl, Page, C., Muyembe, J., **Boivin, M.**, Tshala-Katumbay, D. (2013, November 14). *Neuropsychological effects and biomarkers of konzo: a neuromotor disease associated with poorly processed cassava*. Poster presentation at the 62nd annual meeting of the American Society of Tropical Medicine and Hygiene; Washington, DC, November 13-17, 2013. This study was the recipient of the Elsevier Clinical Research Award, presented Nov. 13, 2013.
4. Bangirana, P., Opoka, R.O., Idro, R., Hodges, J., **Boivin, M.J.**, & John, C.C. (2013, November 17). *Severe malarial anemia is associated with longterm neurocognitive impairment*. Platform presentation at the 62nd annual meeting of the American Society of Tropical Medicine and Hygiene; Washington, DC, November 13-17, 2013.
5. **Boivin, M.J.** (2013, October 23). *Longitudinal developmental and neuropsychological assessments of HIV-infected children: evaluating ART and behavioral treatment strategies*. Invited Pediatrics Grand Rounds Presentation to the University of Makerere Medical School; Kampala, Uganda; October 23, 2013.
6. **Boivin, M.J.** (2013, October 3). *Longitudinal developmental and neuropsychological assessments of HIV-infected children: evaluating ART and behavioral treatment strategies*. Invited Pediatrics and Psychiatry Grand Rounds Presentation to the University of Zimbabwe Medical School; Harare, Zimbabwe, October 3, 2013.
7. **Boivin, M.J.** (2013, September 23). *Building capacity to make assessment possible in low-income countries*. Invited address to “Putting childhood disability on the map: a symposium cosponsored by Columbia University and UNICEF”, Columbia University, New York, New York; September 23, 2013.
8. **Boivin, M.J.** (2013, July 23). *How does infectious disease, quality of home environment and caregiving affect cognitive function in African children?* Invited presentation to the Save the Children symposium on cognitive testing; London Institute of Education, London, UK; July 23-24, 2013.
9. **Boivin, M.J.** & Sikorskii, A. (2013, July 23). *The correspondence between early and middle childhood neurodevelopmental assessments in Malawian and Ugandan children*. Invited presentation to the “Save the Children” symposium on cognitive testing; London, UK; July 23-24, 2013.
10. **Boivin, M.J.**, Magen, J.G., & Vokhiwa, M. (2013, June 19). *The correspondence validity of Malawian preschool developmental assessment and school-age*

- neurocognitive performance in the longitudinal assessment of severe malaria.* Published poster presentation abstract for biannual meeting of Global Health Metrics Evaluation; University of Washington, Seattle, WA, June 17 – 19, 2013. *The Lancet*, [381](#), Page S18, 17 June 2013; doi:10.1016/S0140-6736(13)61272-6.
11. Okitundu, D., Sombo, M.T., Bumoko, M.M., Kambale, J., Mashukano, N., Kazadi, K., Mumba, N., **Boivin, M.J.**, Tamfum-Muyembe, J.J., Mayambu, B., & Tshala-Katumbay, D. (2013, June 14). *The phenomenology of konzo: readings from the Kahemba outbreak in Democratic Republic of Congo Part 1, socioeconomic aspects.* Poster presentation at the 11th biannual meeting of the Society for Neuroscience in Africa (SONA); Rabat, Morocco, June 13-15, 2013.
 12. **Boivin, M.J.** (2013, June 11). *Cognitive impairment and rehabilitation following severe malaria in Malawian and Ugandan children.* Invited public speaker and workshop presenter to the annual meeting of the International Brain Research Organization (IBRO) Africa training workshop in neuroscience; Rabat, Morocco, June 10 – 12, 2013.
 13. **Boivin, M.J.**, Bangirana, P., Opoka, R.O., Nakasujja, N., Bass, J.K., Page, C.F., Shohet, C., Givon, D., & Klein, P.S. (2013, May 31). *Training caregivers in MISC improves caregiving and developmental outcomes in Ugandan children affected by HIV.* Platform presentation at the 14th annual scientific conference of the Ugandan Society for Health Scientists; Kampala, Uganda, May 30-31, 2013.
 14. **Boivin, M.J.**, Giordani, B., Bangirana, P., Nakasujja, N., Opoka, R.O., Sikorskii, A., & Page, C.F. Bass, J.K., & Page, C.F. (2013, May 30). *Neurocognitive gains from computer games are more sensitive to Ugandan pediatric HIV status than static assessments.* Platform presentation at the 14th annual scientific conference of the Ugandan Society for Health Scientists; Kampala, Uganda, May 30-31, 2013.
 15. **Boivin, M.J.**, Vokhiwa, M., Page, C.F., and Magen, J.G. (2013, May 31). *The correspondence validity of Malawian preschool developmental assessment and school-age neurocognitive performance in the longitudinal assessment of severe malaria.* Platform presentation at the 14th annual scientific conference of the Ugandan Society for Health Scientists; Kampala, Uganda, May 30-31, 2013.
 16. **Boivin, M.J.** (2013, April 26). *The psychobiology of soul: faith and science at the vortex of human nature.* Invited presentation as a visiting scholar to the Center for Christian Thought (CCT) at Biola University. La Mirada, CA, April 26, 2013. This is part of a year-long series on "Neuroscience and the Soul", sponsored by a grant from the Templeton Foundation.
 17. **Boivin, M.J.** (2013, April 19). *Cognitive impairment and rehabilitation following severe malaria in Malawian and Ugandan children.* Invited featured speaker to the

annual meeting of the Midwest Neuropsychology Group. Ann Arbor, MI, University of Michigan Department of Psychiatry, April 19, 2013.

18. Ferguson, K., Kammerer, B., Abubakar, A., **Boivin, M.J.** (2013, April 19). *Effectively evaluating the development of African children in bioecocultural context*. Panel presentation at the biennial meeting for the Society for Research in Child Development. Seattle, WA, April 18 – 20, 2013.
19. Wouters, H., Giordani, B., Bangirana, P., Nakasujja, N., Opoka, R.O., Page, C.F., & **Boivin, M.J.** (2013, March 22). *Preliminary findings on the neurocognitive benefits of computerized cognitive rehabilitation training in school-age Ugandan children with HIV*. Poster presentation at the annual meeting of the American College of Family Osteopathic Physicians. Las Vegas, NV, March 21 – 24, 2013.
20. Walhof, K., Giordani, B., Bangirana, P., Nakasujja, N., Opoka, R.O., Page, C.F., & **Boivin, M.J.** (2013, March 22). Preliminary findings of the neurocognitive benefits of computerized cognitive rehabilitation training of Ugandan child survivors of complicated malaria. Poster presentation at the Michigan State University College of Human Medicine 12th annual research day: innovative and emerging technologies in pediatrics. Lansing, MI, March 22, 2013.
21. Romero, R.A., Yund, B., Erickson, N., Woodworth, K., Bangirana, P., **Boivin, M.J.**, Wong, J., & Shapiro, E. (2013, February). *Neurocognitive effects of HIV on preschool-aged children in Uganda*. Poster presentation at the 41st annual meeting of the International Neuropsychological Society. Waikoloa, Hawaii, February 6-9, 2013.
22. Gardner, A., Arabkhazaeli, M., Bangirana, P., Opoka, R.O., Nakasujja, N., Giordani, B., & **Boivin, M.J.** (2013, February). *HAART treatment status and neurocognitive outcomes among HIV-positive Ugandan children*. Poster presentation at the 41st annual meeting of the International Neuropsychological Society. Waikoloa, Hawaii, February 6-9, 2013.
23. Bickham, R., Kruse, K., Bangirana, P., Opoka, R.O., Schut, E.E., Giordani, B., Bass, J.K., & **Boivin, M.J.** (2013, February). *HAART treatment status and neurocognitive development in pre-school age HIV positive Ugandan children*. Poster presentation at the 41st annual meeting of the International Neuropsychological Society. Waikoloa, Hawaii, February 6-9, 2013.

Honors (resident and faculty):

1. **Michael Boivin** - September 26, 2013: Co-recipient of the Michigan State University – College of Osteopathic Medicine Faculty Humanism Award: Michigan State University, East Lansing, MI.
2. **Michael Boivin - NIH Review Panels**
NIH/CSR Special Emphasis Panel ZRG1 AARR-F(02, 04) on HIV/AIDS; March 12 and 25, 2013.
NIMH HIV/AIDS Special Emphasis Panel/Scientific Review Group 2014/01 ZRG1 AARR-F (53) R meeting December 16, 2013
3. **Karen Dobias** – Mini Grant winner through State Wide Campus system.

Challenges/opportunities for upcoming year:

- Recruiting for upcoming years
- Participation in Mid-Michigan Research day
- Expanding the Child and Adolescent Psychiatry Program to the Flint area
- Expanding our telepsychiatry sites
- Expanding more research opportunities in Malawi and Uganda

Briefly indicate at least one way your program addresses each of the ACGME Core Competencies:

Patient care

Chart reviews
Review of patient outcomes on inpatient unit
Rating form
Faculty evaluation on all rotations

Medical Knowledge

Child PRITE Exam
Diagnostic assessments (Mock boards)
Review of charts and records
Faculty evaluation
Resident presentations

Practice-based learning and improvement

- Resident seminar presentations
- Required written case presentations
- Seminar discussions
- Journal clubs

Interpersonal and communications skills

- Staff feedback
- Survey of patient satisfaction
- Direct observation
- Faculty evaluations

Professionalism

- Faculty evaluations
- Direct observation
- Attendance sheets
- Patient satisfaction survey

Systems-based practice

- Faculty evaluation
- Resident Q/A project in outpatient clinic

AOA Competency Osteopathic Manipulative Medicine

Approximately 10 hours of seminar in collaboration with Henry Ford Department of Psychiatry Residency Program (This is added because the Child Psychiatry Program is dually accredited)

**College of Human Medicine
Michigan State University
Lansing Community Residency/Fellowship Annual Report
Academic Year: 2012-2013**

Program Name: Endocrinology Fellowship Program
Program Director: G. Matthew Hebdon, MD

Graduating residents and destinations:

1. Sameer Ansar, MD – private practice in Illinois

Incoming residents, and medical school attended:

1. Nitika Malhotra, MD

Faculty Changes:

1. Dr. Hebdon became Endocrinology Fellowship Program Director, effective July 1, 2013.
2. New key faculty member, Naveen Kakumanu, MD hired October 2013.

Major accomplishments over previous year:

1. 2013 graduating fellow passed his Boards (Sameer Ansar)
2. 2012 graduating fellow passed her Boards (Bhavini Bhavsar)
3. Recruitment of key endocrinology faculty member: Naveen Kakumanu, MD

Research publications/presentation (resident and faculty):

Matthew Hebdon, MD

Publications:

1. Aldasouqi S, Gossain V, **Hebdon M**, Reddy A, Goldman J, Ansar S, Bhavsar B. Causes of Fasting-Evoked en Route Hypoglycemia in Diabetes (FEEHHD): A Case Series Study. International Journal of Clinical Medicine 2012;3:751-757.
2. Ansar S, Mian S, Roth S, **Hebdon GM**, Aldasouqi S, Gossain VV. Safety of Insulin Glargine in Pregnancy. Diabetes & Metabolism 2013;4(12):1-4.

Abstracts:

1. Ansar S, Mian S, Roth S, **Hebdon GM**, Aldasouqi S, Gossain V. Safety of Insulin Glargine in Pregnancy. Presented at 2nd Annual MSU Conference on Women's Health Research, November 2013.

Saleh Aldasouqi, MD – Key Faculty

Publications:

1. **Aldasouqi S**, Gossain V, Hebdon M, Reddy A, Goldman J, Ansar S, Bhavsar B. Causes of Fasting-Evoked en Route Hypoglycemia in Diabetes (FEEHHD): A Case Series Study. *International Journal of Clinical Medicine* 2012;3:751-757.
2. **Aldasouqi S**, Gossain V. Updates on diabetes diagnosis: A historical review of the dilemma of the diagnostic utility of glycohemoglobin A1c and a proposal of a combined glucose-A1c diagnostic method: Review article. *Annals of Saudi Medicine* 2012;32(3):229-235.
3. Ansar S, Mian S, Roth S, Hebdon GM, **Aldasouqi S**, Gossain VV. Safety of Insulin Glargine in Pregnancy. *Diabetes & Metabolism* 2013;4(12):1-4.

Abstracts:

1. **Aldasouqi, Saleh**; Reed Amy; Graham, Erin; Ansar, Sameer. Technical pitfalls of insulin pumps. Proceedings of the Annual Meeting of the American Association of Diabetes Educators, Indianapolis, IN, August 1-4, 2012.
2. **Aldasouqi, Saleh**; Graham, Erin; Reed Amy; Ansar, Sameer; Kluger, Nicolas. As more patients with diabetes resort to permanent tattoos as medical alerts, diabetes educators should be familiar with this emerging trend. Proceedings of the Annual Meeting of the American Association of Diabetes Educators, Indianapolis, IN, August 1-4, 2012.
3. Kluger Nicolas, **Aldasouqi S**. Medical Tattoos in Patients with Diabetes: Motivations and benefits. Poster accepted at the European Association of Dermatology and Venereology, Prague, Bulgaria, September 2012.
4. **Aldasouqi S**, Hamati T, Ansar S, Kluger N. Tattoos as diabetic medical alerts. Submitted to AACE 2013 Annual Meeting, Phoenix, AZ, May 1-5, 2013.
5. **Aldasouqi S**, Hamati T, Ansar S. Recurrence of FEEHD despite prior education. Submitted to AACE 2013 Annual Meeting, Phoenix, AZ, May 1-5, 2013.
6. Ansar S, Hamati T, **Aldasouqi S**. Excellent correlation between rapid onsite evaluation and cytopathological evaluation of thyroid FNA's. Submitted to AACE 2013 Annual Meeting, Phoenix, AZ, May 1-5, 2013.

The above poster/abstract attracted Media coverage, with press release and multiple media interviews (see section on Media). Also the poster won a Travel Award for the fellow co-author.

7. Ansar S, Hamati T, **Aldasouqi S** Alnazawi R. Methimazole hepatotoxicity: is it a “grave” disease? AACE 2013 Annual Meeting, Phoenix, AZ, May 1-5, 2013.
8. Ojha M, **Aldasouqi S**. Biochemically Thyrotoxic for a cause. A wake up call to early diagnosis of Thyroid resistance. Poster accepted at the Midwest Regional Meeting of the Society of General Internal Medicine, Chicago, September 12-13, 2013.
9. Rao D, Aldaouqi S, Hamati T, **Alnazawi R**, Ansar S. Eruptive xanthomas due to severe hypertriglyceridemia in a patient with uncontrolled diabetes mellitus. AACE 2013; Phoenix, Arizona.
10. Ojha M, **Aldasouqi S**. Biochemically Thyrotoxic for a cause. A wake up call to early diagnosis of Thyroid resistance. Poster accepted at the Midwest Regional Meeting of the Society of General Internal Medicine, Chicago, September 12-13, 2013.

Ved Gossain, MD – Key Faculty and Division Chief

Publications

1. **Gossain V**, Aldasouqi S. Diabetes Insipidus. In: Ferencik G, Ebell MH, Lin K, eds. e-Essential Evidence 2012/updated 2013 1st ed. Hoboken, NJ: John Wiley and Sons. <http://essentialevidenceplus.com/content/eee0123>: 1-3.
2. Ansar S, Mian S, Roth S, Hebdon GM, Aldasouqi S, **Gossain V**. Safety of Insulin Glargine in Pregnancy. Journal of Diabetes and Metabolism 2013;4(2):1-4.
3. Aldasouqi S, **Gossain V**, Hebdon M, Reddy A, Goldman J, Ansar S, Bhavsar B. Causes of Fasting-Evoked en Route Hypoglycemia in Diabetes (FEEHD): A Case Series Study. International Journal of Clinical Medicine 2012;3:751-757.
4. Aldasouqi S, **Gossain V**. Updates on diabetes diagnosis: A historical review of the dilemma of the diagnostic utility of glycohemoglobin A1c and a proposal of a combined glucose-A1c diagnostic method: Review article. Annals of Saudi Medicine 2012;32(3):229-235.

Abstracts

1. Rao D, Bhavsar B, Kotaru P, Abela G, **Gossain V**. Course and management of subclinical hyperthyroidism in an academic center and effect on ventricular function. AACE 2013; Phoenix, Arizona.
2. Ansar S, Mian S, Roth S, Hebdon GM, Aldasouqi S, Gossain V. Safety of Insulin Glargine in Pregnancy. Presented at 2nd Annual MSU Conference on Women's Health Research, November 2013.

Grant

NIH (N0006U) R01 #PA-11-250. "Genomics in the Clinic: Identity, Responsibility and Choice". Hunt L (PI), Howard H (Co-PI), Gossain V (Consultant 1% time). Funded 9/1/13-8/31/16. Total Award: \$371,517.00

Sameer Ansar, MD – PGY 2

Publications

1. Ansar S, Mian S, Roth S, Hebdon GM, Aldasouqi S, Gossain VV. Safety of Insulin Glargine in Pregnancy. *Diabetes & Metabolism* 2013;4(12):1-4

Abstracts

1. Aldasouqi, Saleh; Reed Amy; Graham, Erin; **Ansar, Sameer**. Technical pitfalls of insulin pumps. Proceedings of the Annual Meeting of the American Association of Diabetes Educators, Indianapolis, IN, August 1-4, 2012.
2. Aldasouqi, Saleh; Graham, Erin; Reed Amy; **Ansar, Sameer**; Kluger, Nicolas. As more patients with diabetes resort to permanent tattoos as medical alerts, diabetes educators should be familiar with this emerging trend. Proceedings of the Annual Meeting of the American Association of Diabetes Educators, Indianapolis, IN, August 1-4, 2012.
3. Aldasouqi S, Hamati T, **Ansar S**, Kluger N. Tattoos as diabetic medical alerts. Submitted to AACE 2013 Annual Meeting, Phoenix, AZ, May 1-5, 2013.
4. Aldasouqi S, Hamati T, **Ansar S**. Recurrence of FEEHD despite prior education. Submitted to AACE 2013 Annual Meeting, Phoenix, AZ, May 1-5, 2013.
6. **Ansar S**, Hamati T, Aldasouqi S. Excellent correlation between rapid onsite evaluation and cytopathological evaluation of thyroid FNA's. Submitted to AACE 2013 Annual Meeting, Phoenix, AZ, May 1-5, 2013.

The above poster/abstract attracted Media coverage, with press release and multiple media interviews (see section on Media). Also the poster won a Travel Award for the fellow co-author.

7. **Ansar S**, Hamati T, Aldasouqi S Alnazawi R. Methimazole hepatotoxicity: is it a “grave” disease? AACE 2013 Annual Meeting, Phoenix, AZ, May 1-5, 2013.
8. Rao D, Aldaouqi S, Hamati T, Alnazawi R, **Ansar S**. Eruptive xanthomas due to severe hypertriglyceridemia in a patient with uncontrolled diabetes mellitus. AACE May 1-5, 2013; Phoenix, Arizona
9. **Ansar S**, Mian S, Roth S, Hebdon GM, Aldasouqi S, Gossain V. Safety of Insulin Glargine in Pregnancy. Presented at 2nd Annual MSU Conference on Women’s Health Research, November 2013.

Reem Alnazawi, MD – PGY 1

Abstract

1. Ansar S, Hamati T, Aldasouqi S, **Alnazawi R**. Methimazole hepatotoxicity: is it a “grave” disease? AACE 2013 Annual Meeting, Phoenix, AZ, May 1-5, 2013.
2. Rao D, Aldaouqi S, Ansar S, **Alnazawi R**, Hamati T. Severe hypercalcemia from sarcoidosis: case presentation, literature review, underscoring the utility of steroids as a diagnostic test. AACE 2013; Phoenix, Arizona.
3. Rao D, Aldaouqi S, Hamati T, **Alnazawi R**, Ansar S. Eruptive xanthomas due to severe hypertriglyceridemia in a patient with uncontrolled diabetes mellitus. AACE 2013; Phoenix, Arizona

Deepthi Rao, MD – PGY 1

1. **Rao D**, Bhavsar B, Kotaru P, Abela G, Gossain V. Course and management of subclinical hyperthyroidism in an academic center and effect on ventricular function. AACE 2013; Phoenix, Arizona.
2. **Rao D**, Aldaouqi S, Ansar S, Alnazawi R, Hamati T. Severe hypercalcemia from sarcoidosis: case presentation, literature review, underscoring the utility of steroids as a diagnostic test. AACE 2013; Phoenix, Arizona.
3. **Rao D**, Aldaouqi S, Hamati T, Alnazawi R, Ansar S. Eruptive xanthomas due to severe hypertriglyceridemia in a patient with uncontrolled diabetes mellitus. AACE 2013; Phoenix, Arizona

Honors (resident and faculty):

Travel Award - Abstract accepted for oral presentation at ACE 2013, by fellow Deepthi Rao, MD

Ansar S, Hamati T, Aldasouqi S. Excellent correlation between rapid onsite evaluation and cytopathological evaluation of thyroid FNA's. Abstracted submitted to AACE 2013 Annual Meeting, Phoenix, AZ, May 1-5, 2013.

The above poster/abstract attracted Media coverage, with press release and multiple media interviews (see section on Media). Also the poster won a Travel Award for the fellow co-author.

Challenges/opportunities for upcoming year:

Will try to recruit additional fellow sponsored by Saudi government.

Briefly address at least one way your program addresses each of the ACGME Core Competencies:

Endocrinology Site Visit – Competency Worksheet

○ Medical Knowledge

How Taught	How Assessed
During patient care – 1:1 interactions with faculty	Monthly evaluations from attendings Semi annual reviews with PD
Required conferences (includes research conferences, journal club)	On going evaluation by faculty In training exam

○ Patient Care

How Taught	How Assessed
During patient care – 1:1 interactions with faculty. Includes thyroid biopsies with Drs. Aldasouqi, Carella and Hebdon	Ongoing evaluation 1:1 and more formally with monthly evaluations from attendings Procedure logs Review of notes Semi annual reviews with PD
Clinical conferences	Quality of participation

○ **Interpersonal and Communication Skills**

How Taught	How Assessed
During patient care – 1:1 interactions with faculty, patients/family.	Patient satisfaction surveys Multisource evals (nurses, clinic managers, patients and self-evaluation) Monthly evaluations from attendings Review of documentation Semi annual reviews with PD
Team function: diabetes clinic with NP, dieticians etc.; MSU clinic with MAs, nurse manager etc	Nurse evaluations Monthly evaluations from attendings Semi annual reviews with PD
Consultative role: in clinic and with hospital consults	Monthly evaluations from attendings Review of documentation
Medical records	Review of documentation Semi annual reviews with PD

○ **Professionalism**

How Taught	How Assessed
During patient care – 1:1 interactions with faculty. HIPPA compliance tutorial IRB tutorial for research	Patient satisfaction surveys Monthly evaluations from attendings Multisource evaluations Track documentation completion Certification in HIPPA compliance, IRB tutorial for research certification Compliance with admin requirements Semi annual reviews with PD

○ **Practice Based Learning and Improvement**

How Taught	How Assessed
<i>Self assessment; directed learning; incorporation of feedback into daily practice:</i> Performed and modeled during patient care	Monthly evaluations from attendings Semi annual reviews with PD
<i>Practice improvement:</i> Conferences, PI project(s)	Practice improvement modules and self-directed projects
<i>Evidence based medicine:</i> 1:1 discussion with attendings in conferences and during patient care	Journal club and application during patient care
<i>Information technology:</i> during patient care (EMR, hospital information systems); use	Use of EMR Use of electronic library sources in patient

of electronic library resources in patient care, conference	care, conference – part of monthly evaluation
<i>Education of others:</i> talks during endo conferences, talks with residents (including during rotation or conference series)	Feedback from faculty Teaching evaluations from residents (IM)

○ **Systems Based Practice**

How Taught	How Assessed
<i>Work effectively in various settings:</i> clinical experience at MSU, Sparrow, and MMP offices	Monthly evaluations from attendings Semi annual reviews with PD Nurse evaluation
<i>Coordinate patient care:</i> communication with referring physicians, ordering tests etc across settings, communicating with patients	Monthly evaluations from attendings Semi annual reviews with PD Nurse evaluations
<i>Cost awareness, risk-benefit analysis:</i> in context of patient care, conferences	Monthly evaluations from attendings Semi annual reviews with PD
Advocate for system improvements	
<i>Work in interprofessional teams:</i> ie clinic, diabetes clinic; role modeling and interactions	Monthly evaluations from attendings Semi annual reviews with PD Nurse evaluations s
<i>Identify and help fix system errors:</i> Discuss during clinical conferences (ie in context of specific patient); problems getting lab results on patients for follow up visits – work on coordinating with nurses in clinic	Monthly evaluations from attendings Semi annual reviews with PD

**College of Human Medicine
Michigan State University
Lansing Community Residency/Fellowship Annual Report
Academic Year: 2012-2013**

Program Name: General Adult Psychiatry Residency

Program Director: Alyse Ley, D.O

Graduating residents and destinations:

1. Mon Poulou MD-Pine Rest Christian Mental Health Services- Grand Rapids, Michigan
2. Anu Challa MD-CEI-CMH; Sparrow Health System-Lansing, Michigan

Incoming residents July 2013 (include medical school attended):

PGY I

1. Nicole Albrecht MD-MSUCHM
2. Daniel Dawis DO-MSUCOM
3. Samantha Kennedy DO-MSUCOM
4. James Hartzler DO- Arizona COM-Midwestern University

PGY 2

1. Jesse Guasco DO-MSUCOM
2. Nicholas Sandersfeld DO- Des Moines COM

Major accomplishments over previous year:

1. Expansion of telepsychiatry services throughout the state to underserved areas and incorporation of the residents into the telepsychiatry program
2. Continued compliance with ACGME rules, supervision requirements and hand off procedures.
3. Appointment of new faculty members-Jeffrey Frey DO, Jose Herrera MD, Christine Liszewski MD.
4. Expansion of elective rotations for resident in Malawi, Uganda, and Mexico
5. Professional Scientific Training Conference on Children's Social and Emotional Wellbeing- Amman, Jordan in conjunction with UNICEF and UNFPA and Jordan River Foundation
6. Joy Initiative: A Study of the Efficacy of Mindfulness and Joy-Focused Psychosocial Interventions on Wellness in Medical Students.
7. Publication of the Muslim Mental Health Journal
8. Hosted the annual Muslim Mental Health Conference
9. Integrated Psychiatry/Family Medicine clinical experience
10. FM/IM/Psychiatry integrated quarterly conference
11. Building Michigan's Healthcare Workforce-Michigan Health Council –November 2012 Michigan State University CHM/COM Department of Psychiatry, MSU CHM/Sparrow Hospital Department of Family Medicine Collocation Project:

Karen Blackman MD, Julie Phillips MD, Alyse Ley DO and Amy Romain
LMSW, ACSW

Research publications/presentations (resident and faculty):

Boivin, M. Vokhiwa, M. Page, C. Magen, J. The correspondence validity of Malawian preschool developmental assessment and school-age neurocognitive performance in the longitudinal assessment of severe malaria. Ugandan Health Scientists' 14th Annual Scientific Conference May 30-31, 2013. Makerere University, Kampala Uganda

Boivin, M Vokhiwa, M Magen, J. The correspondence validity of Malawian preschool developmental assessment and school-age neurocognitive performance in the longitudinal assessment of severe malaria. The Lancet Volume 381, Page S18, 17 June 2013

Magen J, Aggression in Children and Adolescents. Mott Children's Health Center/Michigan State University Child and Adolescent Psychiatry Update, Flint Michigan April 24, 2013

Magen J, Graduate Medical Education Financing, The Future, Plenary Session, American Association of Directors of Psychiatric Residency Training, Ft. Lauderdale, Florida March 2013

Ley A, "Childhood Depression-Child and Adolescent Psychiatry Update" Mott Children's Health Center and Michigan State University. Holiday Inn Gateway Center. Flint, Michigan. April 24, 2013.

Ley A, Title: The Joy Initiative: A Study of the Efficacy of Mindfulness and Joy-Focused Psychosocial Interventions on Wellness in Nursing and Medical Students
Primary Investigator: Alyse Ley DO Co- Investigators-Miko Rose DO, Dale D'Mello MD, Daniel Cote DO

Quinlan P, 2013-present, Data Safety Monitoring Board Member: Telemonitoring Enhanced Support for Depression Self Management, NIH award 1R01MH096699-01A1 PI-James Aikens

Quinlan P, 2012-present, MSU Chair for National Institutes of Health's Introduction to the Principles and Practice of Clinical Research

Quinlan P, 2006-present, Research Training Director-Introduction to Psychiatry Research for Medical Students

Quinlan P, 2009-present, Standardization of Codebooks from the National Institute of Mental Health Clinical Trials Limited Access Datasets IRB# x09-592

P. Quinlan: Pediatric Psychopharmacology. Mott Children's Health Center and Michigan State University Child and Adolescent Psychiatry Update. April 24, 2013. Flint, MI.

P. Quinlan: Hurley Medical Center 2013 Pediatric Update on the Management and Psychopharmacology of Pediatric Psychiatric Conditions. May 1, 2013. Flint MI.

Scheid J, 2013, "Mood Disorders in Children and Adolescents" for Pediatric Grand Rounds Sparrow Hospital

Scheid J, 2013, "Defiant and Antisocial Behavior in Children and Adolescents" for Pediatric Update, College of Osteopathic Medicine

Scheid J, 2013, "Treating youth with psychotropic medications" for Michigan Federation for Children and Families conference

Scheid J, 2013, "Eating Disorders" Rural Grand Rounds, MSU Psychiatry/Family Medicine Summer 2013

Scheid J, 2013, "DSM-5 Update: Changes Relevant to You" MIAAP Annual Meeting Fall 2013

Scheid J, 2013, "Medications in Kids" MI Statewide Wraparound Conference

Magen J, Richards M & Ley A., (2013) A Proposal for the "Next Generation Psychiatry Residency": Responding to Challenges of the Future, Journal of Academic Psychiatry, 37:6, 375

Richards M, October 2013, ADHD, Anxiety disorders and Depression in Children and Adolescents, The Professional Scientific Training Conference on Children's Social and Emotional Wellbeing, Amman, Jordan.

Richards M, August 2013 Teaching Residents and Medical Students with Telemedicine at Michigan State University, 1 Congreso Nacional de Telemedicina, Merida, Mexico

Richards M, April 2013 ADHD in Children and Adolescents, MSU-Mott Children's Health Center and State wide campus system conference, Flint MI

Al Aniskiewicz PhD-Invited lecturer, Warsaw Poland. University of Warsaw, Psychotherapy in Multiple Sclerosis

Faculty-Center for Rural Health at Michigan State University-Broadcast throughout state of Michigan to multiple sights

Senior Research presentations June 2013.

R, Smith, D D'Mello, D Solomon, H Laird-Fick, L Freilich, C Meerschaert, R DeMuth, G Ferenchick: A Quantum Educational Change in Mental Health Training. Poster Presentation at *MSU CHM Curriculum Change Poster Session*, February 2012.

Rose M, Ley A, D'Mello D, Aniskiewicz A, Giuliano C, Coté D, Sanchez J: The Joy Initiative. Poster Presentation at *MSU CHM Curriculum Change Poster Session*, February 2012.

Beasley M, D'Mello DA, Getzen H: Barriers to the Utilization of Long-Acting Injectable Antipsychotics in Schizophrenia. *Scientific Abstracts of the Annual Meeting of the American Psychiatric Association*, Philadelphia, PA, May 2012.

Barnas GG, D'Mello DA: A Study of Health Communication at First-Episode of Schizophrenia. *Scientific Abstracts of the Annual Meeting of the American Psychiatric Association*, Philadelphia, PA, May 2012.

Rieman J, D'Mello DA: Depression and Chronic Pain: Clinical Correlates. *Scientific Abstracts of the Annual Meeting of the American Psychiatric Association*, Philadelphia, PA, May 2012.

A Randomized, Multicenter, Double-Blind, Non-Inferiority Study of Paliperidone Palmitate 3 month and 1 month Formulations for the Treatment of Subjects with Schizophrenia. Sponsor Janssen. Principal Investigator. 2012

A Mental Health Curriculum for Residents. Sponsor HRSA. Co-Investigator. 2012.

The Joy Initiative: A Study of the Efficacy of Mindfulness Meditation and Joy-Focused Psychosocial Interventions on Wellness in Nursing and Medical Students. Co-Investigator. 2012.

Health Habits and Mental Health of Medical Students. Co-Investigator. 2012.

Physiological and Emotional Feedback Mechanisms in Impulsive Self-Injury Behaviors. Co-Investigator. 2012.

A Phase 2, Multicenter, Open-label Study to Assess the Safety and Tolerability of OPC-34712 as Adjunctive Therapy in Adult Patients with Major Depressive Disorder. Co-Investigator. Sponsor Otsuka. 2010 to present.

RA1SE - Early Treatment Program (ETP) - [RA1SE (Recovery After an Initial Schizophrenia Episode)]Principal Investigator. Sponsor NIMH. 2010 to present.

A Comparison of Long-Acting Injectable Medications For Schizophrenia (ACLAIMS).
Principal Investigator. Sponsor NIMH. 2011 to present.

A Study of the Prevalence of the Use of Medical Marijuana in Hospitalized Psychiatric
Patients. Co-Investigator. 2012.

Richards, M., Telepsychiatry; An Innovative Teaching and Training Opportunity for
Residents and Fellows. American Association of Directors of Psychiatry Training, March
2012

Richards, M., Telepsychiatry for the Millennial Generation of Medical Students.
Association of Directors of Medical Student Education in Psychiatry, June 2012.

Quinlan; A Descriptive Analysis of Symptoms Presenting in Pediatric Patients Referred
to the PASCA Clinic in the Department of Psychiatry at Michigan State University

Quinlan; A Comparison of the MSU Department of Psychiatry Child Behavioral
Checklist results with a National Public Dataset for the Child Behavioral Checklist

Boivin M - GRANTS

Active

RO1 HD073296 (Boivin, Fowler) 08/01/2012 – 07/30/2017
NIH/NICHD \$2,396,524

*Developmental and Growth Outcomes for ARV Exposed HIV Uninfected African
Children.*

This study will be embedded within the NIH IMPAACT-sponsored PROMISE clinical
trials on the pre- and post-natal use of different regimens of ARV to prevent mother-to-
child transmission of HIV. We will evaluate the neurodevelopmental (12 and 24 months
of age) and neuropsychological (60 months of age) effects of duration and type of
exposure to ARV for children born to mothers in this clinical trial. This study will take
place at the Uganda and Malawi PROMISE study sites, and will also evaluate
neurological and hematological outcomes. Role: PI

3R01HD070723 (Boivin, Bass) 03/01/2013 – 02/30/2017
NIH/NICHD \$823,339

*Type 3 Supplemental Grant: Enhancing Ugandan HIV-affected child development with
caregiver training.*

We will evaluate the effectiveness of our caregiver training intervention within a
randomized controlled trial (RCT) for both HIV-infected and affected Ugandan children
in the household, in addition to the target child. This study emphasizes both
developmental outcomes for the children, quality of caregiving at home, and
psychosocial benefit outcomes for caregivers. Role: PI

R01HD070723 (Boivin, Bass) 08/01/11 – 07/31/16
NIH/NICHD \$2,304,641
Enhancing Ugandan HIV-affected child development with caregiver training.
We will evaluate the effectiveness of our caregiver training intervention within a randomized controlled trial (RCT) for both HIV-infected and affected Ugandan children. This study emphasizes both developmental outcomes for the children, quality of caregiving at home, and psychosocial benefit outcomes for caregivers. Role: PI

D43TW009082 (John) 06/01/11 -
05/31/16
NIH/FIC \$207,856 (annual direct
cost)
Research training in infection and neurodevelopment in Uganda.
Training will include an emphasis on infection-related long-term morbidity, a diverse mix of trainees from multiple disciplines and at all levels, integrated core training that is required of all degree students, and development of mentorship capacity for Ugandan faculty as part of the training program. Role: Mentor

Collaborative Initiative for Paediatric HIV Education and Research (CIPHER) Grant Programme

International AIDS Society \$128,000 (07/01/2013-
06/24/2015)
Does HIV subtype moderate ART effect on neurocognitive functioning in children?
Aim 1: To compare neurocognitive outcomes in children with subtype A and D who are on HAART. The *working hypothesis* here is that subtype A is more pathogenic in the brain than subtype D and this will manifest in lower neurocognitive scores in the subtype A group. Aim 2: To examine the moderating effect of HIV subtype on HAART's ability to improve neurocognitive outcomes.
Role: Mentor

R01HD064416 (Boivin, Nakasujja) 04/01/2011-03/31/2016
NIH/NICHD \$2,554,870
Computerized cognitive rehabilitation in children after severe malaria.
This study will evaluate the neuropsychological benefits of computerized cognitive rehabilitation therapy (CCRT) for Ugandan school children surviving severe malaria. Role: PI

R01ES019841 (Tshala-Katumbay) 04/01/2011-03/31/2016
NIH/NIEHS \$1,684,676
Toxicodietary and Genetic Determinants of Susceptibility to Neurodegeneration.
This study will evaluate cassava toxins and the occurrence of a motor system disease, known as konzo, in the DR Congo with field assays to evaluate the pathogenic mechanisms of cassava neurotoxicity on human motor and cognitive abilities. Role: Co-I

R34MH084782 (Boivin) 03/01/2010-02/28/2014
NIH/NIMH \$571,163
Neuropsychological Benefits of Cognitive Training in Ugandan HIV Children.
This study will evaluate the neuropsychological benefits of computerized cognitive rehabilitation therapy (CCRT) for Ugandan school children with HIV. Role: PI

MSU Discretionary Funding Initiative (DFI) (Boivin) 09/01/2012 – 08/21/2014
Office of the Vice President for Research and Graduate Studies \$60,000
Neuropsychological Benefits of Cognitive Training in Ugandan and Kenyan HIV Children.
Development of mobile-network based cognitive rehabilitation programs (Brain Powered Games or BPG) for submission of an RO1 type 3 supplement submission for RO1HD064416 (PI: Boivin, Nakasujja). This study is entitled “Computerized Cognitive Rehabilitation in Children after Severe Malaria.” Role: PI

RO1NS055349 (John) 5/01/2008-3/30/2014
NIH/NINDS \$2,660,830
Pathogenesis of Cognitive/neurologic Deficits in Central Nervous System Malaria (Uganda).
This study investigates the association of immunologic factors with neurocognitive sequelae in Ugandan children with severe malaria. Role: Co-I

U01HD064698 (John) 10/01/2009 – 01/30/2014
NIH/NICHHD \$1,218,000
Acute vs. Delayed Iron Therapy: Effect on Iron Status, Anemia and Cognition.
This project’s goal is to study the neurocognitive impact of early versus late iron supplement treatment for severe malaria anemia in Ugandan children. Role: Other Significant Contributor

UM1 AI068632 (Boivin) 06/01/2012 – 05/31/2015
NIH/DAIDS \$480,300
A Longitudinal Developmental and Neuropsychological Assessment of the P1060 Clinical Trial Cohorts and HIV-uninfected Controls
I am serving as Protocol Chair for substudy P1104s, whereby children at seven of the P1060 clinical trial sites will be co-enrolled for a neuropsychological evaluation of the outcomes for the two principal treatment arms (Nevirapine and Kaletra) of IMPAACT-sponsored P1060 clinical trials. Both HIV-exposed (noninfected) and non-exposed reference groups will be recruited from the study sites.
Role: Protocol Chair

R01HD074261 (Butler) 08/01/2012 – 06/30/2016
NIH/NICHHD
Comparative Effectiveness of Pediatric HIV Disclosure Interventions in Uganda.
The results of the proposed trial will provide much needed evidence as to the effectiveness of a holistic cognitive-behavioral intervention designed to support caregivers and their HIV-infected children through the process of disclosure, compared to counseling offered to caregivers as per standard practice. Importantly, the study will

examine both short- and long-term effects of the intervention and disclosure, and will explore the association between child and caregiver cognitive ability and disclosure outcomes. Role: Consultant

R01HD071664 (van der Kouwe, Willem, Meintje, Laughton) 09/01/11-06/30/16
NIH/NICHD

Longitudinal Neuroimaging and Cognitive Study of HIV-Infected Children.

MRI neuroimaging and neurodevelopmental assessment at 5, 7 and 9 years of 124 HIV infected South African children and 44 controls that have been followed since birth from the CHER clinical trial with early ART (40 weeks), ART at 90 weeks, and deferred ART (not till clinically needed). Role: Consultant

R21MH097115 (Huang) 5/01/2013-2/30/2015
NIH/NICHD

Disseminating a School Based Child Mental Health Prevention Program in Uganda.

Four specific research questions will be studied: 1) what is the capacity of Ugandan public schools in delivering a health promotion program? 2) Is it feasible to have teachers to deliver the child program in such schools? 3) What are the potential barriers in implementing such a program in these schools? 4) What are the teachers' cultural beliefs, knowledge and skills in child development and key health issues? Role: Consultant

Canada Ministry of Health/Grand Challenges (Tumwine) 9/01/2012-8/31/2014
Grand Challenges Canada Saving Brains \$1,000,000

Neuropsychological Assessment Battery for 5 to 7 yr old Rural African Children in Uganda and Burkina Faso.

Exclusive breastfeeding (EBF) has been associated with better cognition in some developed countries. In this project scientists from Makerere University (Uganda) and Centre Muraz (Burkina Faso) will assess whether EBF promotion enhances human capital formation including cognitive function, mental and general health, among a cohort of 5-7 year old children.

Role: Consultant

12-DFI-COM (Boivin) 7/01/2012-6/30/2014
Michigan State University VPRGS Office \$48,000 (COM cost share
\$12,000)

Neuropsychological benefits of cognitive training in school-age Ugandan HIV children.

This is a preliminary study of the neurocognitive and psychosocial benefits of Brain Powered Games computer package in school-age children with HIV in Kayunga, Uganda. Role: PI

D43TW009608-01 (Taiwo) 7/01/2013-6/30/2018

D43 grant for a NeuroAIDS research training program at the University of Ibadan, Nigeria (UI)

This 5-year grant brings experts from University of Illinois, UNC, Northwestern, University of Chicago, Harvard, Michigan State University, and the University of Buffalo

together to develop NeuroAIDS research excellence at UI. Role: Advisory Board Member

D43TW009609-01 (Taha) 9/01/2013-8/31/2018
Training in HIV-related Non-communicable Disease Complications in Malawi
To train Malawian scientists from diverse fields (physicians, nurses, technologists, basic scientists, epidemiologists, data analysts, etc.) to strengthen research capacity for better diagnosis and research, clinical management, and etiologic research in HIV-related NCD complications. Role: Mentor

13-CTSI-204 (Boivin, Winn) 11/01/2013-12/31/2014
Michigan State University Clinical Translational Science Institute (CTSI) \$25,000 (Psychiatry cost share)
Pilot testing of Brain Powered Games for cognitive rehabilitation of Ugandan children with HIV
This grant is to continue pilot testing of the neuropsychological benefits of Brain Powered Games computer package and obtain clinical lab results in Ugandan HIV children in Kayunga. Role: PI

International AIDS Society CIPHER award (Bangirana) 05/01/2013-04/30/2015
Collaborative Initiative for Paediatric HIV Education and Research (CIPHER) Grant Programme \$128,000. *Does HIV subtype moderate ART effect on neurocognitive functioning in children?*
This project is to evaluate HIV-I subtype effects on neuropsychological function in Uganda children in Tororo. Role: Mentor

University of Michigan Global Reach Faculty-Mentored Structured Summer Overseas Projects for Medical Students. (Giordani, Boivin) 06/01/2013-8/31/2016
UM Medical School Global Reach Program \$20,000/year for 3 Years
Cognitive Rehabilitation with HIV positive Children in Uganda.
This project sponsors UM medical students each summer between their M1 and M2 years for an 8-week cognitive rehabilitation research program with Ugandan HIV school children. Role: Co-PI

Completed

University of Michigan Global Reach Faculty-Mentored Structured Summer Overseas Projects for Medical Students. (Giordani, Boivin) 06/01/2010-8/31/2013
UM Medical School Global Reach Program \$20,000/year for 3 Years
Cognitive and family intervention trials (Uganda)
This project sponsors UM medical students each summer between their M1 and M2 years for an 8-week cognitive rehabilitation research program with Ugandan HIV school children. Role: Co-PI

Koura, G.K., **Boivin, M.J.**, Davidson, L.L., Ouédraogo, S., Zoumenou, R., Alao, M.J., Garcia, A., Massougbodji, A., Cot, M., & Bodeau-Livinec, F. (2013). Usefulness of child development

assessments for low-resource settings in francophone Africa. *Journal of Developmental and Behavioral Pediatrics*, 34:486–493, 2013). (IF = 2.14).

Boivin, M.J., Okitundu, D., Bumoko, G.M-M., Sombo, M-T., Mumba, D., Tylleskar, T., Page, C., Tamfum-Muyembe, J-J., & Tshala-Katumbay, D. (2013). Neuropsychological effects of konzo: a neuromotor disorder associated with cassava. *Pediatrics*, 131(4), e1231-e1239; published online March 25, 2013 (doi: 10.1542/peds.2012-3011). (IF = 5.44). Featured in the *New York Times* article “Cassava and mental deficits” by Donald G. McNeil, Jr.; 22-April-2013. Also featured in the global health section article “Cognitive effects of konzo” by Mary Jane Friedrich; *JAMA*, May 15, 2013—Vol 309 (19); p. 1985.

Laughton, B., Cornell, M., **Boivin, M.J.**, & Van Rie, A. (2013). Neurodevelopment in perinatally HIV-infected children: a concern for adolescence. *Journal of International the International AIDS Society*, 2013, 16(1), 18603; <http://dx.doi.org/10.7448/IAS.16.1.18603>. (IF = 3.26).

Boivin, M.J., Bangirana, P., Nakasujja, N., Page, C., Shohet, C., Givon, D., Bass, J., Opoka, R.O., & Klein, P. (2013). A year-long caregiver training program to improve neurocognition in preschool Ugandan children affected by HIV. *Journal of Developmental and Behavioral Pediatrics*, 34(4); 269-278; DOI: 10.1097/DBP.0b013e318285fba9. (IF = 2.14).

Boivin, M.J., Bangirana, P., Nakasujja, N., Page, C., Shohet, C., Givon, D., Bass, J., Opoka, R.O., & Klein, P. (2013). A year-long caregiver training program to improve neurocognition in preschool Ugandan children with HIV. *Journal of Pediatrics*, Nov;163(5):1409-1416.e5. doi: 10.1016/j.jpeds.2013.06.055. Epub 2013 Aug 16. (IF = 4.15)

Bangirana P., Menk J., John C.C., **Boivin M.J.**, & Hodges J.S. (2013). The association between cognition and academic performance in Ugandan children surviving malaria with neurological involvement. *PLoS One*, 2013; 8(2):e55653. doi: 10.1371/journal.pone.0055653. Epub 2013 Feb 1 (IF = 5.68)

Postels, D.G., Chimalizeni, Y.F., Mallewa, M., **Boivin, M.J.**, & Seydel, K.B. (2013). Pediatric cerebral malaria: a scourge of Africa. *Future Neurology*, 8(1), 67–85. (IF = 2.46)

Tshala-Katumbay, D., Mumba, D., Okitundu, D., Kazadi, K., Banea, M., Tylleskar, T., **Boivin, M.J.**, & Tamfum-Muyembe, J-J. (2013) Cassava food toxins, konzo disease and neurodegeneration in sub-Saharan Africans. *Neurology*, 80, 949-951; DOI 10.1212/WNL.0b013e3182840b81. (IF = 8.31).

Joseph, J., Achim, C., **Boivin, M.**, Brew, B., Clifford, D., Colosi, D., Ellis, R., Heaton, R., Gallo-Diop, G., Grant, I., Kanmogne, G., Kumar, K., Letendre, S., Marcotte, T., Nath, A., Pardo, C., Paul, R., Pulliam, L., Robertson, K., Royal, W., Sacktor, N., Sithinamsuwan, P., Smith, D., Valcour, V., Wigdahl, B., Wood, C., & Rausch, D., (2013). Global NeuroAIDS Roundtable.

Book Publication

1. **Boivin, M.J.** & Giordani, B. (2013). Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. American Academy of Pediatric Neuropsychology (AAPdN) Specialty Topics in Pediatric Neuropsychology, DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media Publications (ISBN 978-1-4614-6833-2; ISBN 978-1-4614-6834-9 eBook).

Book Chapters

Boivin, M.J., Wouters, H., & Giordani, B. (2013). Introduction: the neuropsychology of African children within a co-constructivist paradigm. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 1-16.

Busman, R.A., Page, C., Oka, E., Giordani, B., & **Boivin, M.J.** (2013). Factors contributing to the psychosocial adjustment of Ugandan preschool children with HIV/AIDS. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 95-116.

Busman, R.A., Oka, E., Giordani, B., & **Boivin, M.J.** (2013). Examining the psychosocial adjustment and school performance of Ugandan children with HIV/ AIDS. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 117-138.

Lorencz, E.E., & **Boivin, M.J.** (2013). Screening for neurodisability in low-resource settings using the Ten Questions Questionnaire. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 139-154.

Boveau-Livenec, F., Cot, M., Koura, G.K., & **Boivin, M.J.** (2013). Assessing the effects of maternal anemia on child development in Benin. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 203-214.

Holding, P. & **Boivin, M.J.** (2013) The assessment of neuropsychological outcomes in pediatric severe malaria. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 235-276.

Bangirana, P., **Boivin, M.J.**, & Giordani, B. (2013). Computerized cognitive rehabilitation therapy (CCRT) for African children: evidence for neuropsychological benefit and future directions. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 277-298.

Boivin, M.J., Dobias, K., & Giordani, B. (2013). Postscript: towards a universal brain/behavior omnibus in the neuropsychology of African children. In M.J. Boivin and B. Giordani (eds.) *Neuropsychology of Children in Africa: Perspectives on Risk and Resilience*. Specialty Topics in Pediatric Neuropsychology DOI 10.1007/978-1-4614-6834-9_1. New York, NY: Springer Science and Business Media; pages 329-333.

PLATFORM AND POSTER PRESENTATIONS AND PUBLISHED ABSTRACTS FOR LEARNED SOCIETIES AND ORGANIZATIONS

1. **Boivin, M.J.** & Giordani, B. (2014, June 25). *The application of neuropsychology with children in Africa: assessing risk and resilience*. Invited workshop to the 12th annual meeting of the American Academy of Clinical Neuropsychology, New York, NY; September 25-28, 2013.
2. Brahmhatt, H., Gray, R., **Boivin, M.**, Sempijija, V., Matovu, I., Kigozi, G., Kagaayi, J., & Serwadda, D., (2013, September 12). *Prospective study assessing neurodevelopmental benefits of anti-retroviral therapy in Ugandan children 0-6 years of age with HIV*. Platform presentation at the 17th annual International Conference on AIDS and STIs in Africa; Cape Town, South Africa; December 7 – 11, 2013.
3. Bumoko, G.M., Okitundu, D., Sombo, M-T., Ngoyi, M., Tylleskar, Tl, Page, C., Muyembe, J., **Boivin, M.**, Tshala-Katumbay, D. (2013, November 14). *Neuropsychological effects and biomarkers of konzo: a neuromotor disease associated with poorly processed cassava*. Poster presentation at the 62nd annual meeting of the American Society of Tropical Medicine and Hygiene; Washington, DC, November 13-17, 2013. This study was the recipient of the Elsevier Clinical Research Award, presented Nov. 13, 2013.
4. Bangirana, P., Opoka, R.O., Idro, R., Hodges, J., **Boivin, M.J.**, & John, C.C. (2013, November 17). *Severe malarial anemia is associated with longterm neurocognitive impairment*. Platform presentation at the 62nd annual meeting of the American Society of Tropical Medicine and Hygiene; Washington, DC, November 13-17, 2013.
5. **Boivin, M.J.** (2013, October 23). *Longitudinal developmental and neuropsychological assessments of HIV-infected children: evaluating ART and behavioral treatment*

- strategies*. Invited Pediatrics Grand Rounds Presentation to the University of Makerere Medical School; Kampala, Uganda; October 23, 2013.
6. **Boivin, M.J.** (2013, October 3). *Longitudinal developmental and neuropsychological assessments of HIV-infected children: evaluating ART and behavioral treatment strategies*. Invited Pediatrics and Psychiatry Grand Rounds Presentation to the University of Zimbabwe Medical School; Harare, Zimbabwe, October 3, 2013.
 7. **Boivin, M.J.** (2013, September 23). *Building capacity to make assessment possible in low-income countries*. Invited address to “Putting childhood disability on the map: a symposium cosponsored by Columbia University and UNICEF”, Columbia University, New York, New York; September 23, 2013.
 8. **Boivin, M.J.** (2013, July 23). *How does infectious disease, quality of home environment and caregiving affect cognitive function in African children?* Invited presentation to the Save the Children symposium on cognitive testing; London Institute of Education, London, UK; July 23-24, 2013.
 9. **Boivin, M.J.** & Sikorskii, A. (2013, July 23). Boivin, M.J. (2013, July 23). *The correspondence between early and middle childhood neurodevelopmental assessments in Malawian and Ugandan children*. Invited presentation to the “Save the Children” symposium on cognitive testing; London, UK; July 23-24, 2013.
 10. **Boivin, M.J.**, Magen, J.G., & Vokhiwa, M. (2013, June 19). *The correspondence validity of Malawian preschool developmental assessment and school-age neurocognitive performance in the longitudinal assessment of severe malaria*. Published poster presentation abstract for biannual meeting of Global Health Metrics Evaluation; University of Washington, Seattle, WA, June 17 – 19, 2013. *The Lancet*, [381](#), Page S18, 17 June 2013; doi:10.1016/S0140-6736(13)61272-6.
 11. Okitundu, D., Sombo, M.T., Bumoko, M.M., Kambale, J., Mashukano, N., Kazadi, K., Mumba, N., **Boivin, M.J.**, Tamfum-Muyembe, J.J., Mayambu, B., & Tshala-Katumbay, D. (2013, June 14). *The phenomenology of konzo: readings from the Kahemba outbreak in Democratic Republic of Congo Part 1, socioeconomic aspects*. Poster presentation at the 11th biannual meeting of the Society for Neuroscience in Africa (SONA); Rabat, Morocco, June 13-15, 2013.
 12. **Boivin, M.J.** (2013, June 11). *Cognitive impairment and rehabilitation following severe malaria in Malawian and Ugandan children*. Invited public speaker and workshop presenter to the annual meeting of the International Brain Research Organization (IBRO) Africa training workshop in neuroscience; Rabat, Morocco, June 10 – 12, 2013.

13. **Boivin, M.J.**, Bangirana, P., Opoka, R.O., Nakasujja, N., Bass, J.K., Page, C.F., Shohet, C., Givon, D., & Klein, P.S. (2013, May 31). *Training caregivers in MISC improves caregiving and developmental outcomes in Ugandan children affected by HIV*. Platform presentation at the 14th annual scientific conference of the Ugandan Society for Health Scientists; Kampala, Uganda, May 30-31, 2013.

14. **Boivin, M.J.**, Giordani, B., Bangirana, P., Nakasujja, N., Opoka, R.O., Sikorskii, A., & Page, C.F. Bass, J.K., & Page, C.F. (2013, May 30). *Neurocognitive gains from computer games are more sensitive to Ugandan pediatric HIV status than static assessments*. Platform presentation at the 14th annual scientific conference of the Ugandan Society for Health Scientists; Kampala, Uganda, May 30-31, 2013.

15. **Boivin, M.J.**, Vokhiwa, M., Page, C.F., and Magen, J.G. (2013, May 31). *The correspondence validity of Malawian preschool developmental assessment and school-age neurocognitive performance in the longitudinal assessment of severe malaria*. Platform presentation at the 14th annual scientific conference of the Ugandan Society for Health Scientists; Kampala, Uganda, May 30-31, 2013.

16. **Boivin, M.J.** (2013, April 26). *The psychobiology of soul: faith and science at the vortex of human nature*. Invited presentation as a visiting scholar to the Center for Christian Thought (CCT) at Biola University. La Mirada, CA, April 26, 2013. This is part of a year-long series on "Neuroscience and the Soul", sponsored by a grant from the Templeton Foundation.

17. **Boivin, M.J.** (2013, April 19). *Cognitive impairment and rehabilitation following severe malaria in Malawian and Ugandan children*. Invited featured speaker to the annual meeting of the Midwest Neuropsychology Group. Ann Arbor, MI, University of Michigan Department of Psychiatry, April 19, 2013.

18. Ferguson, K., Kammerer, B., Abubakar, A., **Boivin, M.J.** (2013, April 19). *Effectively evaluating the development of African children in bioecocultural context*. Panel presentation at the biennial meeting for the Society for Research in Child Development. Seattle, WA, April 18 – 20, 2013.

19. Wouters, H., Giordani, B., Bangirana, P., Nakasujja, N., Opoka, R.O., Page, C.F., & **Boivin, M.J.** (2013, March 22). *Preliminary findings on the neurocognitive benefits of computerized cognitive rehabilitation training in school-age Ugandan children with HIV*. Poster presentation at the annual meeting of the American College of Family Osteopathic Physicians. Las Vegas, NV, March 21 – 24, 2013.

20. Walhof, K., Giordani, B., Bangirana, P., Nakasujja, N., Opoka, R.O., Page, C.F., & **Boivin, M.J.** (2013, March 22). Preliminary findings of the neurocognitive benefits of computerized cognitive rehabilitation training of Ugandan child survivors of complicated

- malaria. Poster presentation at the Michigan State University College of Human Medicine 12th annual research day: innovative and emerging technologies in pediatrics. Lansing, MI, March 22, 2013.
21. Romero, R.A., Yund, B., Erickson, N., Woodworth, K., Bangirana, P., **Boivin, M.J.**, Wong, J., & Shapiro, E. (2013, February). *Neurocognitive effects of HIV on preschool-aged children in Uganda*. Poster presentation at the 41st annual meeting of the International Neuropsychological Society. Waikoloa, Hawaii, February 6-9, 2013.
 22. Gardner, A., Arabkhazaeli, M., Bangirana, P., Opoka, R.O., Nakasujja, N., Giordani, B., & **Boivin, M.J.** (2013, February). *HAART treatment status and neurocognitive outcomes among HIV-positive Ugandan children*. Poster presentation at the 41st annual meeting of the International Neuropsychological Society. Waikoloa, Hawaii, February 6-9, 2013.
 23. Bickham, R., Kruse, K., Bangirana, P., Opoka, R.O., Schut, E.E., Giordani, B., Bass, J.K., & **Boivin, M.J.** (2013, February). *HAART treatment status and neurocognitive development in pre-school age HIV positive Ugandan children*. Poster presentation at the 41st annual meeting of the International Neuropsychological Society. Waikoloa, Hawaii, February 6-9, 2013.

Federal and Other Research Grants:

- | | | |
|----|--|---|
| 1. | 196-212. R01HD070723 (Boivin, Bass)
NIH/NICHD
<i>Enhancing Ugandan HIV-affected child development with caregiver training.</i>
We will evaluate the effectiveness of our caregiver training intervention within a randomized controlled trial (RCT) for both HIV-infected and affected Ugandan children. This study emphasizes both developmental outcomes for the children, quality of caregiving at home, and psychosocial benefit outcomes for caregivers.
Role: PI | 08/01/11 – 07/31/16
\$2,304,641 |
| 2. | D43TW00982 (John)
NIH/FIC
<i>Research training in infection and neurodevelopment in Uganda.</i>
Training will include an emphasis on infection-related long-term morbidity, diverse mix of trainees from multiple disciplines and at all levels, integrated core training that is required of all degree students, and development of mentorship capacity for Ugandan faculty as part of the training program. Role: Mentor | 06/01/11 – 05/31/16
\$207,856 (annual direct cost) |
| 3. | R01HD064416 (Boivin, Nakasujja)
NIH/NICHD | 04/01/2011-03/31/2016
\$2,554,870 |

- Computerized cognitive rehabilitation in children after severe malaria.*
 This study will evaluate the neuropsychological benefits of computerized cognitive rehabilitation therapy (CCRT) for Ugandan school children surviving severe malaria. Role: PI
4. R01ES019841 (Tshala-Katumbay) 04/01/2011-03/31/2016
 NIH/NIEHS \$1,684,676
Toxicodietary and genetic determinants of susceptibility to neurodegeneration.
 This study will evaluate cassava toxins and the occurrence of a motor system disease, known as konzo, in the DR Congo with field assays to evaluate the pathogenic mechanisms of cassava neurotoxicity on human motor and cognitive abilities. Role: Co-I
 5. R34MH084782 (Boivin) 03/01/2010-02/28/2013
 NIH/NIMH \$571,163
Neuropsychological Benefits of Cognitive Training in Ugandan HIV Children.
 This study will evaluate the neuropsychological benefits of computerized cognitive rehabilitation therapy (CCRT) for Ugandan school children with HIV. Role: PI
 6. University of Michigan Global Reach Faculty-Mentored Structured Summer Overseas Projects for Medical Students. Giordani, Boivin (PIs) 6/01/2010-8/31/2013
 \$20,000/year for 3 Years
Cognitive rehabilitation with HIV positive children in Uganda.
 This project sponsors UM medical students each summer between their M1 and M2 years for an 8-week cognitive rehabilitation research program with Ugandan HIV school children. Role: Co-PI
 7. RO1NS055349 (John) 5/01/2008-4/30/2013
 NIH/NINDS \$2,660,830
Pathogenesis of cognitive/neurologic deficits in central nervous system malaria (Uganda).
 This study investigates the association of immunologic factors with neurocognitive sequelae in Ugandan children with severe malaria. Role: Co-I
 8. U01HD064698 (John) 10/01/2009 – 01/30/2014
 NIH/NICHD \$1,218,000
Acute vs. delayed iron therapy: effect on iron status, anemia and cognition.
 This project's goal is to study the neurocognitive impact of early versus late iron supplement treatment for severe malaria anemia in Ugandan children. Role: Other Significant Contributor
 9. UM1 AI068632 (Boivin) 06/01/2012 – 05/31/2013
 NIH/DAIDS \$10,000

A Longitudinal Developmental and Neuropsychological Assessment of the P1060 Clinical Trial Cohorts and HIV-uninfected Controls

I am serving as Protocol Chair for substudy P1104s, whereby children at seven of the P1060 clinical trial sites will be co-enrolled for a neuropsychological evaluation of the outcomes for the two principal treatment arms (Nevirapine and Kaletra) of IMPAACT-sponsored P1060 clinical trials. Both HIV-exposed (noninfected) and non-exposed reference groups will be recruited from the study sites. Role: Protocol Chair

10. RO1 HD073296 (Boivin, Fowler) 07/01/2012 – 06/30/2017
NIH/NICHD \$566,817
Developmental and Growth Outcomes for ARV Exposed HIV Uninfected African Children.
This study will be embedded within the NIH IMPAACT-sponsored PROMISE clinical trials on the pre- and post-natal use of different regimens of ARV to prevent mother-to-child transmission of HIV. We will evaluate the neurodevelopmental (12 and 24 months of age) and neuropsychological (60 months of age) effects of duration and type of exposure to ARV for children born to mothers in this clinical trial. This study will take place at the Ugnada and Malawi PROMISE study sites, and will also evaluate neurological and hematological outcomes. Role: PI
11. R34MH082663 (Boivin) 4/01/2008-2/28/2012
NIH/NIMH \$599,648
Cognitive and psychosocial benefits of caregiver training in Ugandan HIV children.
The study evaluates the neurocognitive and psychosocial benefits of a one-year training program for the caregivers of HIV children and orphans. Role: PI
12. Templeton Advanced Research Program (Boivin) 6/01/2006-11/28/2010
Metanexus Institute and the John Templeton Foundation \$999,921
Breast cancer disease and treatment: modeling the relationships among spiritual and emotional well-being, quality of life, neuropsychological function, and immunological resilience.
This study explores the role of spiritual well-being with emotional well-being in influencing the impact of breast cancer disease and treatment on quality of life, neuropsychological function, fMRI brain activation, and immunological resilience. Role: PI
13. R21HD060524 (Bodeau-Livinec) 03/01/2010 – 02/28/2012
NIH/NICHD \$ 349,792
Anemia in pregnancy in Benin and impact on cognitive function in childhood
This project's goal is to study the impact of anemia during pregnancy on childhood development in Benin, while building capacity in epidemiology in Benin. Role: Consultant

14. R21MH083166 (Wong) 5/01/2008-4/30/2010
NIH/NIMH \$407,106
Variation in neurocognitive impairment of HIV Ugandan children by HIV subtype.
We evaluated the impact of HIV subtype on the neurocognitive and motor development of HIV children. Role: Co-I

Honors (resident and faculty):

1. Miko Rose D.O.- APA/Substance Abuse and Mental Health Services Award Fellowship
2. Joel Sanchez M.D.- MPS Resident President
3. Hanna Saad M.D.-MPS Resident President-elect
4. Jeanette Scheid MD PhD-MPS President
5. Jed Magen DO-Elected Membership in the American College of Psychiatrists
6. Hanna Saad M.D.-MPS Resident Representative
7. Madhvi Richards, M.D. advanced status to Associate Professor
8. Brian Smith, M.D. advanced status to Associate Professor

Challenges/opportunities for upcoming year:

1. Expand general residency international electives
2. Milestone preparation
3. Participation in Lansing Community Research Day
4. Recruiting for upcoming years:
Given our unusual funding mechanisms and the fact that we participate in both the DO and MD match, we vary the numbers of first year residents we take each year and generally have 4-5 PGY-1's in any given year. We have flexibility to take a second year resident if we have a qualified applicant. We also do not have resident driven services, so that we have maximum flexibility in terms of resident numbers.

Briefly address at least one way your program addresses each of the ACGME Core Competencies:

1. Patient care

Chart reviews
Review of patient outcomes on inpatient unit
Rating form
Faculty evaluation on all rotations
Handoff Procedures

2. Medical Knowledge

PRITE Exam
Board Review Series
Required seminars and didactics

3. Practice-based learning and improvement

Resident seminar presentations
Required written case presentations
Seminar discussions
Journal clubs

4. Interpersonal and communications skills

Staff feedback
Survey of patient satisfaction
Direct observation
Faculty evaluations

5. Professionalism

Faculty evaluations
Direct observation
Attendance sheets
Patient satisfaction survey

6. Systems-based practice

Faculty evaluation
Resident Q/A project in outpatient clinic

7. (AOA Competency) Osteopathic Manipulative Medicine

Approximately 10 hours of seminar in collaboration with Henry Ford Department of Psychiatry Residency Program through the Statewide Campus System.

**College of Human Medicine
Michigan State University
Lansing Community Residency/Fellowship Annual Report
Academic Year: 2012 - 2013**

Program Name: MSU Hematology/Oncology Fellowship

Program Director: Anas Al-Janadi, MD

Graduating residents and destinations:

1. Zion Oshikanlu, MD – in private practice with former MSU graduate Ganapathy Krishnan, MD - Chillicothe, Ohio

Incoming residents and medical school attended:

1. Hemasri Tokala, MD
 - a. Medical school: Osmania Medical College, India
 - b. Residency: Michigan State University, Internal Medicine Residency
2. Mohammed Shaik, MD
 - a. Medical school: Osmania Medical College
 - b. Residency: Hurley Medical Center/Michigan State University

Faculty changes

None at this time

Major accomplishments over previous year:

Contract signed with McLaren Regional for clinical practice to remain at the Breslin Cancer Center

Research publications/presentations (resident and faculty):

Anas Al-Janadi, MD

Publication:

1. Chandana SR, Kotecha R, Al-Janadi A, Chang HT, Conley BA. Rare case of hairy cell leukemia with brain parenchymal involvement: a diagnostic dilemma. J Clin Oncol 2013 April 10:31(11).
2. Kurniali PC, Kavuturu S, Caliman N, Al-Janadi A. thyroid Metastases from squamous cell carcinoma of gallbladder. J Gastrointest Cancer 2013 Oct. 15.

Presentations:

1. Sideroblastic Anemia, October 20, 2012 ACP Annual Meeting, Traverse City, MI.
2. ASCO Update. July 6, 2012, MSU Hem/Onc Core Conference

CLINICAL RESEARCH (Selected, ongoing projects)

Principal Investigator: A Phase III Multi Center, Open Label, Randomized Study of Imatinib versus Nilotinib in Adult Patients with Newly Diagnosed Philadelphia Chromosome Positive CML in Chronic Phase

Principal Investigator: A Worldwide, Observational Registry collecting Longitudinal Data on the management of Chronic Myelogenous Leukemia (CML) patients (The WORLD Registry) in routine practice

Principal Investigator: A Phase II trial of twice weekly induction followed by once weekly IV velcade (bortezomib) with dexamethasone in patients with relapsed and/or refractory multiple myeloma following at least 1 prior treatment

Principal Investigator: Phase II Study of Combination Rituximab-Chop and Velcade Induction Therapy Followed by Velcade Maintenance Therapy for Newly Diagnosed Mantle Cell (SWOG S0601)

Principal Investigator: Observational study to assess the incidence of osteonecrosis of the jaw in cancer patients with bone metastasis who are starting on zoledronic acid treatment (SWOG S0702)

Principal Investigator: A Randomized Phase III Trial to Test the Strategy of Changing Therapy Versus Maintaining Therapy for Metastatic breast Cancer Patients Who Have Elevated Circulating Tumor Cell Levels at First Follow-Up Assessment (SWOG S0500)

Principal Investigator: Molecular Epidemiology Case-Series Study of Non-Small Cell Lung Cancer in Non Smoking Women and Men, Stage 1, 2, and 3, excluding malignant pleural effusion (SWOG 0424)

Principal Investigator: A Randomized, double-Blind, Multicenter Study of Denosumab Compared with Zoledronic Acid (Zometa) in the Treatment of Bone Metastases in Subjects with Advanced Cancer (Excluding Breast and Prostate Cancer) Or Multiple Myeloma

Principal Investigator: EXamination of PNH by Level Of CD59 on REd and White blood cells in bone marrow failure syndromes (EXPLORE)

Principal Investigator: (SWOG 0601). A Phase II Study of Combination Rituximab-CHOP and Velcade Induction Therapy Followed by Velcade Maintenance Therapy for Patients with Newly Diagnosed Mantle Cell Lymphoma

Principal Investigator: (SWOG 0515). A Phase II Trial of Standard Dose Cyclophosphamide, Doxorubicin, Vincristine, Prednisone (CHOP) and Rituximab Plus Bevacizumab for Advanced Stage Diffuse Large B-Cell NHL

Principal Investigator: A Multicenter, Randomized, Open-Label Study Comparing Three Alternative Dosing Regimens of Subcutaneous Azacitidine Plus Best Supportive Care for the Treatment of Myelodysplastic Syndromes.

Kenneth A. Schwartz, MD

Abstracts:

1. Experimental Biology and Medicine. Energy Restricted Ketogenic Diet (ERKD) Treatment for Advanced Glioblastoma Multiforme (GBM): Case Report. Nikolai, M, Schwartz, KA, Kurnaili P, Chang, HT, Olson LK. Annual Meeting Boston, April 2013.
2. American Society of Clinical Oncology. Schwartz KA, Chang HT, Olson LK. Ketolytic and Glycolytic Enzymatic Expression Profiles in Malignant Gliomas: Implications for Ketogenic Diet Therapy. Annual Meeting, Chicago, June 2013.

Deminate Tamkus, MD

Publications:

1. Sikorskii A, Wyatt G, Tamkus D, Victorson D, Rahbar MH, Ahn S. Concordance between patient reports of cancer-related symptoms and medical records documentation. J Pain Symptom Manage. 2012 44(3):362-72
2. Wyatt G, Sikorskii A, Tamkus D, You M. Quality of life among advanced breast cancer patients with and without distant metastasis. European Journal of Cancer care, 2012.
3. Tamkus D, Sikorskii A, Gallo K, Wiese D, Madhukar BV, Chivu S, Chitneni C, Dimitrov NV. Endothelin-1 Enriched Tumor Phenotype Predicts Breast Cancer Recurrence. ISRN Oncol, 2013

Poster Presentations:

1. Mushtaq R, Shaik M, Mistry S, Alkharabsheh OA, Shaqfeh M, Afsharimani S, Ahmad D, Habte-Gabr E, Katato K, Tamkus D. Survival rates of male breast cancer compared to female: A Surveillance, Epidemiology, and End Results (SEER) database analysis. ASCO meeting 2013, poster presentation.

Presentations:

- 07/2012 ASCO 2012 update. MSU Hematology/Oncology Conference
11/2012 Targeted therapy for HER2 driven breast cancer. MSU physiology lecture for undergraduate students.
01/2013 Breast tumor dormancy. MSU Medicine Grand Rounds
07/2013 ASCO 2011 update. MSU Hematology/Oncology Conference

Clinical Trials:

Source of Support: NSABP

PI: Deimante Tamkus, MD

NSABP FB-6: A Phase II Trial of four cycles of doxorubicin and cyclophosphamide followed by weekly paclitaxel given concurrently with pazopanib as neoadjuvant therapy followed by postoperative pazopanib for women with locally advanced breast cancer.

Source of Support: NSABP

PI: Deimante Tamkus, MD

NSABP B-43: A phase III clinical trial comparing trastuzumab given concurrently with radiation therapy and radiation therapy alone for women with Her 2 positive ductal carcinoma in situ resected by lumpectomy.

Source of Support: NSABP

PI: Deimante Tamkus, MD

NSABP B-47: A phase III trial of adjuvant therapy comparing chemotherapy alone to chemotherapy plus trastuzumab in women with node-positive or high risk node negative HER2 low invasive breast cancer

Source of Support: NSABP

PI: Deimante Tamkus, MD

NSABP B-49: A Phase III Clinical Trial Comparing the Combination of Docetaxel plus Cyclophosphamide to Anthracycline-Based Chemotherapy Regimens for Women with Node-Positive or High-Risk Node-Negative, HER2-Negative Breast Cancer

Source of Support: NSABP

PI: Deimante Tamkus, MD

NSABP Prevention Trial P-2: The study of tamoxifen and raloxifen (STAR) for the prevention of breast cancer

Source of Support: NSABP

PI: Deimante Tamkus, MD

NSABP Prevention trial P-5: Statin polyp prevention trial in patients with resected colon cancer

Source of Support: MedImmune

PI: Deimante Tamkus, MD

MEDI-573-1030 A Phase 2 Randomized Study of MEDI-573 in Combination with an Aromatase Inhibitor (AI) Versus AI Alone in Women with Metastatic Breast Cancer

Source of Support: Dimitrov Cancer Research Career Development Award

PI: Deimante Tamkus, MD

Translational Study: Identification of Predictive Biomarker for Therapeutic Response in Patients with Malignant Effusion

Borys Hrinchenko, MD

Abstracts:

1. Subramonia-Iyer S, Olsen B, Hrinchenko B. Biopsy method and sample adequacy for molecular testing in advanced non-small cell lung cancer. *Journal of Thoracic Oncology*, 2012 Chicago Multidisciplinary Symposium in Thoracic Oncology; (suppl); abstr 1066.
2. Hrinchenko B, Subramonia-Iyer S, Zhang D, Olsen B. Adequacy of biopsy samples for molecular testing in patients with non-small cell lung cancer. *Journal of Clinical Oncology* 30, 2012 ASCO annual Meeting Proceedings Post Meeting edition) (sup; abstr e21133).
3. Subramonia-Iyer S, Hrinchenko B. A view of chromosomes 3q abnormalities in lung cancer. *Journal of Clinical Oncology* 30, 2012 ASCO Annual Meeting Proceedings Post-Meeting edition)(suppl; abstr e21154).

Poster Presentations:

Subramony-Iyer S, Olsen, B, Hrinchenko B. Biopsy method and sample adequacy for molecular testing in advanced non-small cell lung cancer. Poster Presentation, ASCO Quality Care Symposium, December 2012, San Diego, CA.

Subramonia-Iyer S, Hrinchenko B. Non-Small cell lung cancer – biopsy and mutation testing. Poster Presentation, 7th Annual Mid-Michigan Regional Research Day, GEMI, April 19, 2012, East Lansing, MI.

Vasireddi S, Zakharia Y, Hrinchenko B. A case of spontaneous tumor lysis syndrome (TLS) in a recto peritoneal sarcoma patient. Poster Presentation. Midwest, SGIM Regional Meeting, September 13-14, 2012, Chicago, IL.

Kannan M and Hrinchenko B. Mycobacterium Gordonae infection in a patient with non-small cell lung cancer. Poster Presentation, American College of Physicians (AC), Regional Meeting, April 2012, Dearborn, MI.

Presentations:

Hrinchenko, B. Immune Dysregulation in Sickle Cell Disease, Breslin Cancer Center, Core Conference, Michigan State University, East Lansing, MI August 17, 2012.

Fellows:

Peter Kurniali, MD

1. Experimental Biology and Medicine. Energy Restricted Ketogenic Diet (ERKD) Treatment for Advanced Glioblastoma Multiforme (GBM): Case Report. Nikolai, M, Schwartz, KA, Kurnaili P, Chang, HT, Olson LK. Annual Meeting Boston, April 2013.
2. Kurniali PC, Kavuturu S, Caliman N, Al-Janadi A. thyroid Metastases from squamous cell carcinoma of gallbladder. J Gastrointest Cancer 2013 Oct. 15.

Shalini Chitneni, MD

1. Tamkus D, Sikorskii A, Gallo K, Wiese D, Madhukar BV, Chivu S, Chitneni S, Dimitrov NV. Endothelin-1 Enriched Tumor Phenotype Predicts Breast Cancer Recurrence. ISRN Oncol, 2013

Simona Chivu, MD

1. Tamkus D, Sikorskii A, Gallo K, Wiese D, Madhukar BV, Chivu S, Chitneni C, Dimitrov NV. Endothelin-1 Enriched Tumor Phenotype Predicts Breast Cancer Recurrence. ISRN Oncol, 2013

Srinivasa Chandana, MD

1. Chandana SR, Kotecha R, Al-Janadi A, Chang HT, Conley BA. Rare case of hairy cell leukemia with brain parenchymal involvement: a diagnostic dilemma. J Clin Oncol 2013 April 10:31(11).

Subramony-Iyer, MD

1. Subramony-Iyer S, Olsen, B, Hrinchenko B. Biopsy method and sample adequacy for molecular testing in advanced non-small cell lung cancer. Poster Presentation, ASCO Quality Care Symposium, December 2012, San Diego, CA.
2. Subramonia-Iyer S, Hrinchenko B. Non-Small cell lung cancer – biopsy and mutation testing. Poster Presentation, 7th Annual Mid-Michigan Regional Research Day, GEMI, April 19, 2012, East Lansing, MI.

Yousef Zakharia, MD

1. Vasireddi S, Zakharia Y, Hrinchenko B. A case of spontaneous tumor lysis syndrome (TLS) in a recto peritoneal sarcoma patient. Poster Presentation. Midwest, SGIM Regional Meeting, September 13-14, 2012, Chicago, IL.

Mohammed Kannan, MD

1. Kannan M and Hrinchenko B. Mycobacterium Gordonae infection in a patient with non-small cell lung cancer. Poster Presentation, American College of Physicians (AC), Regional Meeting, April 2012, Dearborn, MI.

Challenges/opportunities for upcoming year:

1. Recruit new faculty: 1-2 faculty members are sought

Briefly indicate at least one way your program addresses each of the ACGME Core Competencies:

Patient Care:

Fellows have their own continuity clinics 2 days per week, and also see patients in IRMC and Sparrow, both in consultation and as primary admitting service. They also spend time at the outpatient oncology practice in Flint.

Medical Knowledge:

Fellows participation in journal club twice a month, weekly core conference, weekly tumor boards, clinical case discussion monthly. They are offered ASH and ASCO in-training exam yearly during their training (PGY4-6) to measure the progress of their knowledge

Practice-based Learning and Improvement:

Fellows see patients in the clinic, following their progress and setbacks; monthly clinic practice meetings; participation in QOPI, the Quality Oncology Practice Initiative, with the American Society of Clinical Oncology (ASCO).

Interpersonal and Communications Skills:

Fellows participate in weekly meetings on oncology floor at IRMC for patient care planning; weekly tumor boards, periodic Schwartz rounds, which address issues of the caregivers of critically or terminally ill patients; interdisciplinary tumor boards and clinics.

Professionalism:

Fellows are expected to discuss plans of care with an interdisciplinary team, consisting of nurses, other clinicians and social workers; they are expected to complete notes accurately and timely; They attend multidisciplinary tumor boards for breast and thoracic cancer; they attend periodically multidisciplinary breast cancer clinic.

Systems-based Practices:

Exposure to this competency occurs in the weekly inpatient rounds, as well as in clinic, with patients needing home care and other help to obtain their care. They are assisted by our oncology pharmacist, social workers, nurses and the faculty in this endeavor.

**College of Human Medicine
Michigan State University
Lansing Community Residency/Fellowship Annual Report
Academic Year: 2012-2013**

Program Name: Infectious Disease Fellowship

Program Director: Daniel Havlichek Jr., MD

Graduating residents and destinations:

1. Razi Syed, MD: Toledo, Ohio, private practice (passed ID boards fall 2013)

Incoming residents and medical school attended:

1. Usman Saeed, MD, King Edward Medical College, Pakistan

Faculty changes - None

Major accomplishments over previous year:

1. Dr. Syed presented his research at the state infectious disease society meeting
2. The Division hosted the state ID Society meeting
3. Dr. Havlichek completed his term as Chair of the IDSA Training Program Directors Committee

Research publications/presentations (resident and faculty):

1. Kar, Mitra, Resnick,, Torbey, Gastric antral vascular ectasia: case report and review of the literature. Clin Med Res. 2013, June 11, 80-85.
2. Stein, Babinchak. Tigecycline: and update. Diag Microbiol Infec Dis. 2013, 75:331
3. Stein, Throckmorton, Scharmen, Weiss, Prokai, Smith, Havlichek. Tissue penetration and antimicrobial activity of standard and high dose TMP/SMX and linezolid in patients with diabetic foot infection. J Antimicrob Chemother, 2013, 68, 2852-2858
4. N Janet A. Lamberta,B, Apoorv Kalra*, Cristina T. Dodgeb*, Susan Johnb, Jack D. Sobela and Robert A. Akins. Novel PCR-Based Methods Enhance Characterization of Vaginal Microbiota in a Bacterial Vaginosis Patient before and after Treatment. Appl. Environ. Microbiol. July 2013 vol. 79 no. 13 4181-4185.
5. Peyrani, Wiemken...Stein, Time to Clinical Stability in patients with VAP due to MRSA treated with linezolid vs vancomycin. IDSA national meeting, San Francisco, October 2013
6. Peyrani, Wiemken...Stein. Association of Organ Dysfunction with Clinical failure in patients with VAP due to MRSA. IDSA national meeting, San Francisco, October 2013

Honors (resident and faculty):

1. Dr. Yasin honored as “Best Fellow of the Year” (GMEI)

Challenges/opportunities for upcoming year:

1. At this time the program does not have a resident signed to begin fellowship in 2014. Faculty have met to discuss this issue and the following decisions were made.
 - a. Continue to look for a suitable person to begin fellowship (of course).
 - b. If no one begins we will maintain the general schedule for the second year fellow with no increase in fellow’s clinical work-load and no decrease in educational activities.
2. Clinical work load may increase if practice patterns of Dr. Kulhanek change after she returns from maternity leave in May.

Briefly indicate at least one way your program addresses each of the ACGME Core Competencies:

Patient Care: The Infectious Disease Fellowship continues to provide comprehensive patient care to the patients of Sparrow Hospital and the Region. Fellows see patients from all inpatient medical and surgical services at Sparrow, indigent persons with HIV thru the Ryan White Clinic at the Ingham County Health Department, and outpatients in the MSU clinic.

Medical Knowledge: Medical knowledge is addressed through daily interactions with the fellow during patient presentations on rounds or in the clinic, by the in-training exam which is administered through the IDSA, and through interactions during conferences which are often presented in a question/response format.

Practice-based Learning and Improvement: Fellows are involved in improving practice by lectures in the core conference series, projects involving improved outpatient clinic follow up, hepatitis C management. What is learned from each project is used to improve our patient practice.

Interpersonal and Communications Skills: Interpersonal and communication skills are addressed through daily observation of interactions between the fellow and the patient and hospital/clinic staff on rounds or in the clinic, by lectures in the core conference series, and by the mini OSCE. Fellows are evaluated by clinic staff on this skill as well.

Professionalism: Professionalism is addressed through daily observation of interactions between the fellow and the patient and hospital/clinic staff on rounds or in the clinic, by

lectures in the core conference series, and by the mini OSCE. Fellows are evaluated by clinic staff on this skill as well.

Systems-based Practices: Systems based practice is addressed through the rotations in Infection Prevention and Microbiology. In these rotations, fellows see how what they do as physicians impacts the larger enterprise. They also receive lectures in the core conference series regarding this topic.

**College of Human Medicine
Michigan State University
Lansing Community Residency/Fellowship Annual Report
Academic Year: 2012-2013**

Program Name: Integrated Residency in General Surgery
Program Director: Michael K. McLeod, M.D.

Graduating residents and destinations:

1. Stanislav Nosik – Colorectal Fellowship - Erie, PA
2. Michael Eigenberg – MSU Dept. of Surgery Faculty Member
3. Kartik Gohil – MIS Fellowship – Stony Brook Hospital NY
4. Nicole Kopari – SCC Fellowship – University of Washington
5. Corey Graham – Staff Surgeon, Gundersen Health System

Incoming residents and medical school attended:

1. Adam Basler – Rush Medical
2. Shay Mansoor – Technion Israel Institute of Technology
3. Andi Peshkepija- Michigan State University CHM
4. Dahlia Rice – Rush Medical
5. Michael Mullin – Michigan State University COM
6. Laura Ochoa-Frongia – University of Michigan Medical School
7. Maryam Saeed – Sindh Medical University
8. Sonia Voiculescu – St. Georges University School of Medicine

Faculty changes

1. Dr. Brian Peshek (Left department)
2. Dr. Melissa Rakowski (Left department)
3. Dr. Chet Morrison (Left department)
4. Dr. Robert Osmer (New employee)
5. Dr. Michael Eigenberg (New employee)
6. Dr. Sergio Bardaro (New employee)
7. Dr. Karen Ching (New employee)

Major accomplishments over previous year:

1. Outstanding Educator Award, Flint Campus – Mark Mattingly, M.D.
2. Outstanding Educator Award, Lansing Campus – Srinivas Kavuturu, M.D.
3. Highest Junior ABSITE – Nicole Zarembo
4. Highest Senior ABSITE – Kartik Gohil/Darcy Shaw
5. Most Improved Junior – Anthony Darr
6. Most Improved Senior – Rafael Ruggieri

Research publications (resident and faculty):

1. Anderson CI, Nelson C, Graham C, Mosher BD, Gohil K, Morrison CA, Schneider PD, Kepros JP. Disorganized care: The findings of an interactive, in-depth analysis of surgical morbidity and mortality. J Surg Res. In Press. 2012

2. Shaw D, Gohil K, Basson MD. Intestinal mucosal atrophy and adaptation. *World J Gastroenterol.* 2012 Nov 28;18(44):6357-75. doi: 10.3748/wjg.v18.i44.6357. PMID:23197881
3. Chaturvedi LS, Zhang P, Basson MD. Effects of extracellular pressure and alcohol on the microglial response to inflammatory stimulation. *Am J Surg.* 2012 Nov;204(5):602-6. doi: 10.1016/j.amjsurg.2012.07.010. PMID: 23140827
4. Opreanu RC, Sobinsky J, Basson MD. Appendicitis and Benign Appendiceal Mucocele Presenting as Large Bowel Obstruction *J Gastrointest Surg.* 2012 Oct 26. [Epub ahead of print] PMID: 23099734
5. Kovalenko PL, Flanigan TL, Chaturvedi L, Basson MD. Influence of defunctionalization and mechanical forces on intestinal epithelial wound healing. *Am J Physiol Gastrointest Liver Physiol.* 2012 Nov;303(10):G1134-43. doi: 10.1152/ajpgi.00321.2012. Epub 2012 Sep 20. PMID: 22997197.
6. Kovalenko PL, Kunovska L, Chen J, Gallo KA, Basson MD. Loss of MLK3 signaling impedes ulcer healing by modulating MAPK signaling in mouse intestinal mucosa. *Am J Physiol Gastrointest Liver Physiol.* 2012 Oct;303(8):G951-60. doi: 10.1152/ajpgi.00158.2012. Epub 2012 Aug 23. PMID: 22917630.
7. Walsh MF, Hermann R, Sun K, Basson MD. Schlafens 3 changes during rat intestinal maturation. *Am J Surg.* 2012 Nov;204(5):598-601. doi: 10.1016/j.amjsurg.2012.07.004. Epub 2012 Aug 17. PMID:22906252
8. Fatima S, Losanoff JE, Khouri N, Levi E, Basson MD. Giant subcapsular hematoma of the spleen complicating recurrent pancreatitis. *Am Surg.* 2012 Mar;78(3):E120-2. No abstract available. PMID: 22524731
9. Opreanu R, Sobinsky J, Basson M. Appendicitis and Benign Appendiceal Mucocele Presenting as Large Bowel Obstruction. *Journal of Gastrointestinal Surgery.* 2012 Oct 26; 17:609–610. Doi: 10.1007/s11605-012-2054-8.
10. Lund MJ, Mosunjac M, Davis KM, Gabram S, Rizzo M, Bumpers HL, Hearn S, Zelnak A, Styblo T, O'Regan RM. 21 gene recurrence scores: racial differences in testing, scores, treatment and outcome. *Cancer* 2012; 118(3):788-96
11. Bowman E, Oprea G, Okoli J, Gundry K, Rizzo M, Gabram-Mendola S, Manne U, Smith G, Pambuccian S, Bumpers HL. Pseudoangiomatous Stromal hyperplasia (PASH) of the breast: A series of 24 patients. *Breast J.* 2012;18(3):242-7.
12. Katkoori VR, Shanmugam C, Jia X, Vitta SP, Sthanam M, Callens T, Messiaen L, Chen D, Zhang B, Bumpers HL, Samuel T, Manne U. Significance and Gene Expression Profiles of p53 Mutations in Microsatellite-Stable Stage III Colorectal Adenocarcinomas. *PLoS One.* 2012;7(1):e30020
13. Bumpers HL, Gabram-Mendola S, Okoli J, Rizzo M. Image of the month: A Case of Advanced Breast Cancer. *Archives of Surgery, In Press* 2012
14. Henry D, Satgunam S. Idiopathic omental bleeding. *J Surg Case Rep* 2012. 9:2.
15. Ito K, Ito H. Biliary Sclerosis after Hepatic Arterial Infusion Pump Chemotherapy for Patients with Colorectal Cancer Liver Metastasis: Incidence, Clinical Features, and Risk Factors. *Ann Surg Onc* 2012. 19:1609-1617.
16. Ito K, Ito H. Appendectomy in pregnancy: evaluation of the risks or a negative appendectomy. *American Journal of Surgery* 2012. 203, 145-150.
17. Kepros JP, Opreanu RC, Samaraweera R, Briningstool A, Morrison CA, Mosher BD, Schneider P, Stevens P. Whole Body Imaging in the Diagnosis of Blunt Trauma,

- Ionizing Radiation Hazards and Residual Risk. European Journal of Trauma and Emergency Surgery. In Press. 2012
18. Saadeh Y, Gohil K, Bill C, Smith C, Morrison C, Mosher B, Schneider P, Stevens P, Kepros JP. Chemical venous thromboembolic prophylaxis is safe and effective for patients with traumatic brain injury when started 24 hours after the absence of hemorrhage progression on head CT. J Trauma Acute Care Surg. 2012 Aug;73(2):426-30. doi: .1097/TA.0b013e31825a758b.PMID: 22846950
 19. Osuch JR, Hsu W-W, Todem D, Landgraf J, Karmaus W, Mikucki D, Haan P. Female Reproductive Status and Circulating Blood Leukocyte Expression of Selected Metabolic and Signaling Genes involved in Sex Steroid Metabolism. International Journal of Molecular Epidemiology and Genetics. (In Press).
 20. Warner J, Osuch JR, Karmaus W, Landgraf J, Taffe B, O'Keefe M, Mikucki D, Haan P. Common Classification Schemes for PCB Congeners and the Gene Expression of CYP 17, CYP19, ESR1 and ESR2. Sci Total Environ 2012 Jan1; 414:81-89. Epub 2011 Nov 23. PMID: 22119029.
 21. Vyas D, Garthe CC, Vyas A. Limitations of Current Timing and Frequency of Screening Colonoscopy and Possible Future Direction.J Laparoendosc Adv Surg Tech A. 2012 Dec 28. [Epub ahead of print] No abstract available. PMID: 23272724
 22. Vyas D, Pihl K, Kavuturu S, Vyas A. Mesothelioma as a rapidly developing Giant Abdominal Cyst. World J Surg Oncol. 2012 Dec 20;10(1):277. [Epub ahead of print]PMID: 23256650
 23. Vyas D, Vyas AK. Time to detoxify medical literature from guideline overdose. World J Gastroenterol. 2012 Jul 14;18(26):3331-5. doi: 10.3748/wjg.v18.i26.3331. PMID: 22807603

Research Presentations (resident and faculty):

1. "Axillary Lymph Node Metastasis in Ductal Carcinoma in Situ"
Presented at the 14th Annual Meeting of the American Society of Breast Surgeons (ASBS) (May 2-5, 2013, Chicago, IL) K. Ching
2. "Breast Cancer Follow-up and Surveillance"
Lecture presented to the Sparrow Cancer Center breast cancer survivors group WINS (Women's Information Network and Support) (Jan. 14, 2013, Lansing, MI) K. Ching
3. "Early Breast Cancer: Diagnosis and Planning"
Presented this Sparrow Hospital Medical Impact Series lecture to Sparrow and local primary care physicians (Oct. 10, 2012, Bath, MI) K. Ching
4. "Surgical Management of the Axilla in Early Breast Cancer"
Lecture presented at the MSU Hematology/Oncology Core Conference (Sept. 28, 2012, Lansing, MI) K. Ching
5. "Management of Metastatic Colorectal Cancer in Liver: Where We Are and Where We will go", CME course of International Association of Surgeon, Gastroenterologist and Oncologist, Athens, Greece 10/25/2012 H. Ito
6. "Gallbladder Cancer 2012: Accurate Staging with Radical Surgery" , Annual Congress, Association of Surgeon, Gastroenterologist and Oncologist, Bangkok, Thailand 12/5/2012 H. Ito

Honors (resident and faculty):

1. Darcy Shaw – Outstanding Resident Teaching Award - CHM
2. Rafael Ruggieri - Outstanding Resident Teaching Award - CHM
3. Rafael Ruggieri - 7 Neumann Nurses Physician Excellence Award - Sparrow
4. David Henry – Outstanding Laparoendoscopic Resident Award – Society of Laproendoscopic Surgeons

Challenges/opportunities for upcoming year:

1. Transition to new program leadership: Current program director has accepted a new position in the Dean’s Office that will require him to step down as PD.
2. Anticipated budget cuts.
3. No permanent place at all times for a Simulation Center.

Briefly indicate at least one way your program addresses each of the ACGME Core Competencies:

Patient Care:

Weekly Pre-Operative Management Conference

Medical Knowledge: Protected time for residents Thursdays 7am – 1pm

7:00am–8:00am: M&Ms

8:00am–9:00am: Grand Rounds (1st & 3rd week),

Pre-Operative Conference (2nd & 4th week)

9:00am – 10:00am: Jr. SCORE

10:00am – 11:00am: Sr. SCORE

11:00am – 12:00pm: PD Meeting

12:00pm – 1:00pm: Comprehensive Breast Clinic

Practice-based Learning and Improvement:

Weekly Surgical Morbidity & Mortality conference

Interpersonal and Communications Skills:

Presentation from Dr. Smith and Francesca Dwamena

Professionalism:

Lecture from Dr. Beck

Systems-based Practices:

Invited Speakers:

Dr. Baumgartner

Steven Pruett, PhD

Ronald Horowitz, MD

Bin Gao, MD, PhD

Robert C. Smith, MD

**College of Human Medicine
Michigan State University
Lansing Community Residency/Fellowship Annual Report
Academic Year: 2012-2013**

Program Name: Internal Medicine

Program Director: Heather Laird-Fick, MD

Graduating residents and destinations:

1. Oliver Abela, Heart Failure Fellowship, University of Cincinnati
2. Mohamed Akkad, Hematology/Oncology Fellowship, Michigan State University
3. Ali Al Arab, chief medical resident, Michigan State University
4. Srujan Ameda, Hospitalist, New Mexico
5. Lizbeth Dalaza, Hospitalist, MidMichigan Medical Center-Midland
6. Alvin Dandan, Pulmonary/Critical Care Fellowship, St Louis University
7. Maan Ekkah, Hospitalist, EW Sparrow Hospital
8. Sonya Gupta, Hospitalist, EW Sparrow Hospital
9. Kwasi Karikari, Hospitalist, Cartersville Medical Center, Georgia
10. Shaza Khan, Hospitalist, EW Sparrow Hospital (graduated 9/13)
11. Dean McFarlane-Parrott, general internal medicine, Michigan State University (graduated 9/13)
12. Priyank Patel, Hematology/Oncology Fellowship, Roswell Park Cancer Institute
13. Hemasri Tokala, Hematology/Oncology Fellowship, Michigan State University
14. Deng Zhang, Hematology/Oncology Fellowship, Roswell Park Cancer Institute

Incoming residents and medical school attended:

1. Olisa Achike, Memorial University of Newfoundland, Canada
2. Julie Akright, Michigan State COM
3. Samar Alsunaid, King Saud University, Saudi Arabia
4. Megan Benedict, Michigan State COM
5. Mindy Chilman, Western University COM/MP
6. Victor Elgabalawi, Michigan State CHM
7. Tejaswini Joginpally, MNR Medical College, India
8. Ryan Melvin, Michigan State COM
9. Michael Kehdi, Michigan State COM
10. Suwen Kumar, All India Institute of Medical Sciences, India
11. Ujjwal Kumar, Malana Azad Medical College, India
12. Suhasaini Rallabandi, Gandhi Medical College, India
13. Julie Yam, Michigan State COM

Faculty changes

1. Key faculty member addition of Supratik Rayamajhi

Major accomplishments over previous year:

1. Excellent fellowship placement and retention within Michigan.

2. Significant scholarly production by residents.
3. Ongoing HRSA grant (PI: Robert Smith). The focus of the grant is Mental Health Training for Internal Medicine Residents, using a train the trainer model. The PI is a core faculty member. The trainers being trained include the residency program director (Laird-Fick), a core faculty member (Freilich), and a clinical supervisor (Meerschaert). Involvement of the faculty has supported additional interviewing experiences for residents during their required PGY1 Psychosocial rotation. In addition, the trainers developed didactic sessions to be delivered as part of core conferences. A Complex Care Clinic for mental health treatment and training has been established at the Clinical Center, staffed by the aforementioned individuals, as well as another faculty member (Francesca Dwamena), two psychiatrists (Dale D’Mello and Jeff Frey) and a care manager (Heather Spotts). Residents will begin training in the clinic in August 2013.

Research publications/presentations (resident and faculty):

1. Laird-Fick HS, Freilich L, Han C, Smith RC. Deconstructing Difficult Encounters. *JCOM*. 2012 Nov; 19(11): 557-62.
2. Tokala H, Kalavakunta J, Laird-Fick H, Kamath S, Gupta V. A rare cardiac neoplasm presenting as chest pain. *European Cardiology*. 2012; 8(3): 223-4.
3. Tiwari A, Laird-Fick H, Wali R, Roy H. “Surveillance for Gastrointestinal Malignancies.” *World J Gastroenterol*. 2012 Sep 7; 18(33):4507-16. PMID: 22969223.
4. Raju M, Mood G, Laird-Fick HS, Abela G. “Cerebrovascular Steal Phenomenon in a Patient undergoing Dipyridamole Nuclear Perfusion Cardiac Imaging.” Raju M, Mood G, Laird-Fick HS, Abela G. *Journal of Cardiology Cases*. Accepted, Ms Ref No JCCASE-D-11-00213R2.
5. Laird-Fick HS, Yadava M et al. “Sudden Cardiac Death in Athletes.” Third International Conference on Sport and Society. Cambridge, UK, 2012
6. “Is Takotsubo Cardiomyopathy a Potential Side Effect of Antidepressant?” Kim J, An IC, Abela G, Laird-Fick H. 18th World Congress on Heart Disease Annual Scientific Session 2013. Vancouver, BC, Canada. July 2013.
7. “Cavitary Lung Lesion: An Unusual Presentation of Cryptogenic Organizing Pneumonia.” Chandolu S, Ojha M, Laird-Fick H, Rawsthorne L. American Thoracic Society, Pittsburgh, PA. 5/13.
8. "An Unusual Cause of Altered Mental Status in Elderly - Acute Cerebellitis. A Case report and review.," by Priyank Patel, Supratik Rayamajhi, Hemasri Tokala and Heather Laird-Fick
9. Alsara O, Rayamajhi S, Ghanem F, Skaf E, Abela GS. Primary cardiac pleomorphic sarcoma presenting as back pain in an 18-year-old man. Tex Heart Inst J. 2013;40(3):339-42.
10. Ferenchick G, et al. (includes Dandan A, resident). “Mobile Technology for the Facilitation of Direct Observation and Assessment of Student

Performance.” Teaching and Learning in Medicine: An International Journal. 2013; 25:4, 292-299

11. Kim J, et al. “The Association of Clinical Indication for Exercise Stress Testing with All-cause Mortality.” (poster) 2013 American Heart Association Scientific Sessions.
12. Virupannavar S. Poster presentation 2012 American College of Osteopathic Internists. September 2012
13. Tiwari AK, Saba W, Backman V, Roy HK et al. “Nanocytomics: A Novel Spectroscopic Modality For Cancer Risk Stratification.” (Oral presentation). American College of Physicians (ACP) Michigan Chapter Annual Scientific Meeting-2012, Traverse City, MI
14. Tiwari AK, Backman V, Roy HK et al. ”Risk stratification for cancers through spectroscopic interrogation of mucosa.” Poster. American College of Physicians (ACP), Michigan Chapter Annual Scientific Meeting-2012, Traverse City, MI
15. Tiwari AK, Wali RK, DelaCruz M, Roy HK. Histopathological Features and Molecular Determinants of The Gender Paradox in Colorectal Carcinogenesis; (control ID: 1416818); American College of Gastroenterology (ACG) annual meeting-2012, Las Vegas
16. Tiwari AK, Subramanian H, Backman V, Roy HK. Nanocytomics-Based Assessment of Cellular Transcriptional Activity: A Novel Risk-Stratification Tool for Colorectal Cancer (control ID: 1384593); American College of Gastroenterology (ACG) annual meeting-2012, Las Vegas
17. Supratik Rayamajhi and Pavan Gorukanti. "Discharge Clinic - a collaborative effort between an academic institution and a local health-care facility." oral presentation. Society of General Internal Medicine Midwest regional meeting, September 2012.
18. Osama Alsara. "Isolated ostial stenosis of left main coronary artery in a woman 8 years after radiation therapy for non-small lung cell carcinoma" oral presentation, Society of General Internal Medicine Midwest regional meeting, September 2012.
19. Alvin Dandan. "Classic RS3PE Syndrome: Not Your Ordinary Arthritis!" oral presentation. Society of General Internal Medicine Midwest regional meeting, September 2012.
20. Srinivasa Vasireddi. ""Spontaneous tumor lysis syndrome in solid tumors." poster presentation. Society of General Internal Medicine Midwest regional meeting, September 2012.
21. Abrar Sayeed. Dementia Doesn't Equal Alzheimer's – Dementia as the Presenting Manifestation of Creutzfeldt –Jakob Disease (CJD). oral presentation. American College of Physicians, Michigan chapter scientific meeting, fall 2012.

22. Ashish Tiwari. Nanocytomics: A Novel Spectroscopic Modality For Cancer Risk Stratification. oral presentation. American College of Physicians, Michigan chapter scientific meeting, fall 2012.
23. Dareen Almanabri. Munchausen Syndrome by Proxy in the Elderly: A diagnostic dilemma. poster presentation. American College of Physicians, Michigan chapter scientific meeting, fall 2012.
24. Osama Alsara. Hemoptysis: A Very Rare Presentation of Atrial Septal Defect in an Adult Male. poster presentation. American College of Physicians, Michigan chapter scientific meeting, fall 2012.
25. Osama Alsara. Uncommon Presentation of Takotsubo Cardiomyopathy in A 79 Year-Old Female. poster presentation. American College of Physicians, Michigan chapter scientific meeting, fall 2012.
26. Tyler An. Autoimmune Hepatitis masquerading as a Primary Hemochromatosis. poster presentation. American College of Physicians, Michigan chapter scientific meeting, fall 2012.
27. Joonseok Kim. Torsades de pointes caused by chronic methadone and quetiapine use- Check that EKG! poster presentation. American College of Physicians, Michigan chapter scientific meeting, fall 2012.
28. Priyank Patel. An Unusual Cause of Altered Mental Status in the Elderly: Acute Cerebellitis. poster presentation. American College of Physicians, Michigan chapter scientific meeting, fall 2012.
29. Priyank Patel. Catastrophic Antiphospholipid Syndrome Presenting as Unusual Pulmonary-Renal Disease. poster presentation. American College of Physicians, Michigan chapter scientific meeting, fall 2012.
30. Abrar Sayeed. Cardiac Amyloid: A Rare Cause of Diastolic Heart Failure. poster presentation. American College of Physicians, Michigan chapter scientific meeting, fall 2012.
31. Ashish Tiwari. Basic Science research. poster presentation
32. Mrinal Yadava. Unique Dislodgement of a Subcutaneous Defibrillation Coil: Reel Syndrome. poster presentation. American College of Physicians, Michigan chapter scientific meeting, fall 2012.
33. Tiwari Ashish, MD: "Partial Wave Spectroscopic Microscopy: A Novel Tool to Assess Perturbation in the Cellular Transcriptional Activity During Colon Carcinogenesis". Lansing Research Day Oral Presentation March 2013
34. Sonya Gupta, DO: "How Well Are We Performing? Screening for Abdominal Aortic Aneurysm". Lansing Research Day Oral Presentation March 2013
35. Priyank Patel, MD: "Acquired hematopoietic cell abnormality as a cause of Central Diabetes Insipidus?" Lansing Research Day Oral Presentation March 2013
36. Dareen Almanabri , MD: "Munchausen Syndrome by Proxy in Elderly: A Diagnostic Dilema". Lansing Research Day Poster Presentation, March 2013
37. Dareen M Almanabri, MD: "Lithium induced nephrogenic diabetes insipidus". Lansing Research Day Poster Presentation, March 2013

38. Woo J. Chang, DO: "Severe back pain - is it a spinal epidural abscess?" Lansing Research Day Poster Presentation, March 2013
39. Woo J. Chang, DO: "Unusual initial presentation of P-ANCA vasculitis with crescentic glomerulonephritis". Lansing Research Day Poster Presentation, March 2013
40. In Chul An DO: "PDGFRA-associated Chronic Eosinophilic Leukemia". Lansing Research Day Poster Presentation, March 2013
41. Osama Alsara, MD: "Spontaneous Bacterial Peritonitis in an Adult Patient with Cystic Fibrosis". Lansing Research Day Poster Presentation, March 2013
42. Srinivasa Rao Vasireddi, MD: "Uncontrolled hypothyroidism is a risk factor for Torsade de pointes". Lansing Research Day Poster Presentation, March 2013
43. Mrinal Yadava, MD: "Heterogeneous Transmural Distribution of Small Conductance Calcium Activated K Currents in Failing Human Ventricles" Lansing Research Day Poster Presentation, March 2013
44. Ashish K Tiwari, MD: "Progressive Loss of ARID1a (P270) Expression During Early Stages of Colorectal Carcinogenesis is a Significant Determinant of the Colonic Epithelium Phenotype". Lansing Research Day Poster Presentation, March 2013
45. Ashish K Tiwari, MD: "An Uncommon Cause of Post-Prandial Abdominal Pain: Superior Mesenteric Artery (SMA) Syndrome". Lansing Research Day Poster Presentation, March 2013
46. Sonya Gupta, DO: "An Elusive Case of Botulism in a 65 year old Man". Lansing Research Day Poster Presentation, March 2013
47. Sonya Gupta, DO: "ALCAPA Syndrome- a life threatening cardiac anomaly in a 23 yr old male". Lansing Research Day Poster Presentation, March 2013
48. David Kim, MD: "Detection Of Methicillin-Resistant Staphylococcus Aureus In Respiratory Specimens Of Critically Ill Patients: Comparison Of Real-Time Polymerase Chain Reaction And Culture". Lansing Research Day Poster Presentation, March 2013
49. Anthia Dasari, MD: "Unique Dislodgement of a Subcutaneous Defibrillation Coil: Reel Syndrome". Lansing Research Day Poster Presentation, March 2013
50. Priyank Patel, MD: "Analysis of Use of CT Angiogram in "Rule Out Pulmonary Embolism" Patients: Can We Increase Effectiveness?" Lansing Research Day Poster Presentation, March 2013
51. Priyank Patel, MD: "An Unusual Cause of Altered Mental Status in Elderly - Acute Cerebellitis". Lansing Research Day Poster Presentation, March 2013
52. Ian Chang, DO: "Orthostatic Hypotension" Lansing Research Day Poster Presentation, March 2013
53. Dane D Gruenebaum, DO: "Cholestatic pain after cholecystectomy: Sphincter of Oddi dysfunction (SOD) aka: postcholecystectomy syndrome" Lansing Research Day Poster Presentation, March 2013

54. Dane D Gruenebaum, DO: "Avoiding paternalism in the 21st century: The decision to not anticoagulate". Lansing Research Day Poster Presentation, March 2013
55. Jinsoo Chang, MD: "Multi-organ manifestations of infective endocarditis". Lansing Research Day Poster Presentation, March 2013
56. Osama Alsara, MD - Radiotherapy Induced Ostial Stenosis of Left Main Coronary Artery. Oral Presentation, Michigan ACP Associates Meeting, May 10, 2013
57. In Chul An, DO - PDGFRA-associated Chronic Eosinophilic Leukemia. Oral Presentation, Michigan ACP Associates Meeting, May 10, 2013
58. Lizbeth Dalaza, and Sonya Gupta. ALCAPA Syndrome-a life threatening cardiac anomaly in a 23 year old male. Oral Presentation, Michigan ACP Associates Meeting, May 10, 2013
59. Ashish Tiwari, MD - Partial Wave Spectroscopic Microscopy: A Novel Tool to Assess Perturbation in the Cellular Transcriptional Activity During Colon Carcinogenesis. Oral Presentation, Michigan ACP Associates Meeting, May 10, 2013
60. Osama Alsara, MD - Spontaneous Bacterial Peritonitis in an Adult Patient with Cystic Fibrosis. Poster Presentation at Michigan ACP Associates Meeting, May 10, 2013
61. Woo Chang, DO - Unusual initial presentation of P-ANCA vasculitis with crescentic glomerulonephritis. Poster Presentation at Michigan ACP Associates Meeting, May 10, 2013
62. Woo Chang, DO - Severe back pain – is it a spinal epidural abscess? Poster Presentation at Michigan ACP Associates Meeting, May 10, 2013
63. Lizbeth Dalaza, DO - An Elusive Case of Botulism in a 65 year old man. Poster Presentation at Michigan ACP Associates Meeting, May 10, 2013
64. David Kim, MD - Thyrotoxicosis and abdominal symptoms—a diagnostic challenge. Poster Presentation at Michigan ACP Associates Meeting, May 10, 2013
65. Joonseok Kim, MD - Renal infarct in young male – renal artery dissection masquerading as renal colic. Poster Presentation at Michigan ACP Associates Meeting, May 10, 2013
66. Justin Oneese, MD - Rare Presentation of Acute Myeloid Leukemia (AML). Poster Presentation at Michigan ACP Associates Meeting, May 10, 2013
67. Richa Tikaria, MD - Unusual presentation of Influenza A. Poster Presentation at Michigan ACP Associates Meeting, May 10, 2013
68. Ashish Tiwari, MD - Progressive Loss of ARID1a (P270) Expression During Early Stages of Colorectal Carcinogenesis is a Significant Determinant of the Colonic Epithelium Phenotype. Poster Presentation at Michigan ACP Associates Meeting, May 10, 2013
69. Srinivasa Vasireddi, MD - Uncontrolled hypothyroidism is a risk factor for Torsade de pointes. Poster Presentation at Michigan ACP Associates Meeting, May 10, 2013

70. Mrinal Yadava, MD - Heterogeneous Transmural Distribution of Small Conductance Calcium Activated K Currents in Failing Human Ventricles. Poster Presentation at Michigan ACP Associates Meeting, May 10, 2013
71. Tiwari AK, Roy HK, Backman V et al. Partial Wave Spectroscopic Microscopy: A Novel Tool to Assess Perturbation in the Cellular Transcriptional Activity During Colon Carcinogenesis. DDW-2013, Orlando. Oral presentation.
72. Tiwari AK, Roy HK, Backman V et al. Functional Characterization of SWI/SNF Chromatin Remodeling Complex Genes through Optical Interrogation of Nuclear Chromatin Nanoarchitecture (Presidential Poster of Distiction), DDW-2013, Orlando. poster
73. Tiwari AK, Roy HK et al. Progressive Loss of ARID1a (P270) Expression During Early Stages of Colorectal Carcinogenesis is a Significant Determinant of the Colonic Epithelium Phenotype; poster presentation at DDW-2013, Orlando. poster
74. Tiwari AK, Wali RK, Roy HK et al. Histopathological Features and Molecular Determinants of The Gender Paradox in Colorectal Carcinogenesis, American College of Gastroenterology (ACG) annual meeting-2012, Las Vegas. Poster
75. Tiwari AK, Backman V, Roy HK et al. Nanocytomics-Based Assessment of Cellular Transcriptional Activity: A Novel Risk-Stratification Tool for Colorectal Cancer, American College of Gastroenterology (ACG) annual meeting-2012, Las Vegas. Poster
76. Tiwari AK, Backman V, Roy HK et al. Nanocytomics as a Novel Modality for Determining Transcriptional Activity (Presidential Poster of Distiction), DDW-2012, San Diego
77. Tiwari AK. Comment on “Urinary incontinence in young nulligravid women”. Ann Intern Med. 2013 Jan 15;158(2):138-9.doi:10.7326/0003-4819-158-2-201301150-00017. PMID: 23318321
78. Tiwari AK, Subramanian H, Maneval CD, Wali RK, Backman V, Roy HK. Partial Wave Spectroscopic Microscopy: A Novel Tool to Assess Perturbation in the Cellular Transcriptional Activity During Colon Carcinogenesis; Gastroenterology, May 2013 (Volume 144, Issue 5, Supplement 1, Page S-175)
79. Tiwari AK, Subramanian H, Maneval CD, Wali RK, Backman VK, Roy HK. Functional Characterization of SWI/SNF Chromatin Remodelling Complex Genes Through Optical Interrogation of Nuclear Chromatin Nanoarchitecture; Gastroenterology, May 2013 (Volume 144, Issue 5, Supplement 1, Page S-525)
80. Tiwari AK, Wali RK, Backman V, Roy HK. Progressive Loss of ARID1A (P270) Expression During Early Stages of Colorectal Carcinogenesis Is a

Significant Determinant of the Colonic Epithelium Phenotype;
Gastroenterology, May 2013 (Volume 144, Issue 5, Supplement 1, Pages
S-285-S-286.

81. Mrinal Yadava. Do anticonvulsants improve outcomes in people with tinnitus? Cochrane Clinical Answers 2012. DOI: 10.1002/cca.45.
82. Mrinal Yadava. How do third generation cephalosporins compare with conventional antibiotics at improving outcomes in people with acute bacterial meningitis? Cochrane Clinical Answers 2012. DOI: 10.1002/cca.75.
83. Mrinal Yadava. What are the effects of bronchodilators in people with acute bronchiolitis? Cochrane Clinical Answers 2012. DOI: 10.1002/cca.93.
84. F Jacques et al. (Mrinal Yadava, resident). “Medical errors: The Performance Gap in Hypoplastic Left Heart Syndrome and Physiologic Equivalents” American Association of Thoracic Surgery 2012 – 92nd Annual Meeting
85. Mrinal Yadava, Samar Vanaik, Peerawut Deeprasertkul, Ranjan K. Thakur. “Unique Dislodgement of a Subcutaneous Defibrillation Coil: Reel Syndrome” American Medical Association – Resident and Fellow Section, Honolulu - Oct 2012
86. Sonya Gupta, David Kim, and Maryann Tran. “Detection Of Methicillin-Resistant Staphylococcus Aureus In Respiratory Specimens Of Critically Ill Patients: Comparison Of Real-Time Polymerase Chain Reaction And Culture.” May 2013. American Thoracic Society International Conference. Philadelphia, Pennsylvania. Poster presented.
87. Sonya Gupta and David Kim. “Thyrotoxicosis and abdominal symptoms—a diagnostic challenge.” April 2013. Society of General Internal Medicine. Denver, Colorado. Poster presented
88. Osama Alsara, MD. Poster, Society of General Internal Medicine national meeting
89. David Kim, MD: Poster presented at a National critical care meeting

Honors (resident and faculty):

1. Ashish Tiwari, Presidential Poster of Distinction at Digestive Disease Week (DDW)-Orlando (2013)
2. Ashish Tiwari, Basic research oral presentation award (second place) at American College of Physicians (ACP)-Michigan Chapter Associate Meeting-Troy (2013)
3. Ashish Tiwari, Presidential Poster of Distinction at Digestive Disease Week (DDW)-San Diego (2012)
4. Heather Laird-Fick, residency Research Teacher of the Year
5. Beenu Kaw, Excellence in Teaching - Community
6. Venu Gourenini, Excellence in Teaching - Faculty

7. Osama Alsara, 2013 Outstanding Resident in Cardiology
8. Hemasri Tokala, 2013 Outstanding Resident in Hematology/Oncology
9. Alvin Dandan, 2013 Outstanding Resident in Infectious Disease
10. Dane Gruenebaum, 2013 Outstanding Junior Resident
11. Priyank Patel, 2013 Outstanding Senior Resident
12. Justin Oneese, 2013 Sparrow Nursing Resident of the Year
13. Priyank Patel, David Greenbaum Emerging Leader
14. Hemasri Tokala, Outstanding Resident in Research
15. Naomi Mathew, Rose Award
16. Sonya Gupta, Bernard Smookler Award
17. David Kim, Sparrow Hospital Outstanding First Year Resident
18. Sonya Gupta, Sparrow Hospital Outstanding Internal Medicine Senior Resident

Challenges/opportunities for upcoming year:

1. Board Pass Rate: The program has fallen to an 80% 3-year average board pass rate. We are looking at multi-pronged strategy to improve this moving forward, including:
 - a. Changing our “in house” board review process.
 - b. Purchasing Challenger board review subscriptions for all residents
 - c. Aligning didactic sessions with areas of need as identified by the In Training Exam.
 - d. Weight USMLE scores more heavily in our Match ranking.
 - e. Address issues of service versus learning (see below)
2. Implementing and assessing the Milestones under the NAS. The internal medicine implementation has been pushed back several times. We are changing our semi annual review process and potentially some of our evaluations to enable the new CCC to assess resident performance more readily.
3. Service vs Learning: We continue to work with Sparrow leadership to change the staffing model for the intensive care units. Specifically, we are asking for geographic limitation of residents to ICU and CCU. We are continuing to deliver faculty development session in Grand Rounds and division meetings to address the learning environment.

Briefly indicate at least one way your program addresses each of the ACGME Core Competencies:

Patient Care: mini-CEXes

Medical Knowledge: in training exam

Practice-based Learning and Improvement: reflective exercise as part of Morbidity and Mortality

Interpersonal and Communications Skills: mini-CEXes and patient satisfaction surveys

Professionalism: multisource evaluations (patients, clinic staff, academic case manager, peers and attendings)

Systems-based Practices: evaluation by academic case manager in the hospital

**College of Human Medicine
Michigan State University
Lansing Community Residency/Fellowship Annual Report
Academic Year: 2012-2013**

Program Name: Interventional Cardiology Fellowship Program

Program Director: Tim A. Fischell, M.D.

Graduating residents and destinations:

1. Saba Noorin Khan, MD
Alexan Brothers Medical Center/ Cardiovascular Associates
800 Biesterfield Rd
Elk Grove Village, IL 60007
2. Herman Kado, MD
Michigan Healthcare Professionals, PC
28625 Northwestern HWY #150
Southfield, MI 48034
3. Manish Jhavar, MD
Heart & Vascular Institute of Winchester, LLC
650 Cedar Creek Grade, Suite 100
Winchester, VA 22601

Incoming residents and medical school attended:

1. Poorna R. Karuparthi, MD
Guntur Medical College, India
2. Nitin Mahajan, MD
Maulana Azad Medical College, India
3. Babatunde O. Komolafe, MD
Obafemi Awolowo University, Nigeria

Faculty changes

- No major changes

Major accomplishments over previous year:

We have had a very successful academic year in 2013/2014. We have just graduated three outstanding interventional cardiology fellows from the program. The fellows have shown tremendous improvement and excellent skill sets at the end of their training year. We expect all three fellows to sit for the interventional cardiology (ABIM) exams in the coming year, and to pass the board exam without difficulty, as per our prior experience

with our fellows. All three of the fellows have obtained excellent positions in their respective locations, as above.

In addition to continuing our high volume interventional cardiology-training program during the last year we have continued our alliance with rotations in peripheral vascular intervention in Grand Rapids, at Metro Hospital, with Dr. Jihad Mustapha. This rotation first began at the end of the 2010 academic year and will continue to be offered to enhance our fellows' peripheral vascular interventional training in the coming year. There have been no significant changes with our faculty in the last 12 months with continued excellent participation of: Dr. Vishal Gupta; Dr. Robert LaPenna; Dr. Steven Peck; Dr. William LaPenna; Dr Kamath; Dr. Soundos Moualla; and myself.

Finally, we have continued our tradition of academic work with publications during the past academic and several additional publications in preparation. We have responded to queries following our successful ACGME site visit in May 2010. We have been re-accredited with a 5-year review period as of 4/5/11.

In summary, we have had a very successful year in fellowship training and continued success of our prior fellows. We added three new faculty members in the prior year (Drs. Mustapha, Kamath and Saltiel) as well as a successful navigation thru our ACGME review and re-accreditation. We have a talented group of interventional cardiology fellows that started July 1, 2013, and look forward to our ongoing affiliation with Michigan State University.

Research publications/presentations (resident and faculty):

Tim A. Fischell, MD

Research:

2012 Principal Investigator for Absorb Trial, Abbott Vascular

Invited Lectures:

June 8, 2012: Alternative Concepts in Renal Denervation. New Cardiovascular Horizons 2012.

June 9, 2012: Renal Nerve Ablation: Where Will it Take Us? New Cardiovascular Horizons 2012.

October 24, 2012: Perivascular Renal Denervation (PVRD). A New Approach. TCT

February 26, 2013: Extravascular (Ablative Solutions). CRT 2013, Wash. DC.

February 26, 2013: Implantable Devices for ischemia and STEMI Detection: An update. CRT 2013, Wash. DC.

February 26, 2013: Optimal stenting for Aorto-Ostial Lesions. CRT 2013, Wash. DC.

August 29, 2013: Left Main and Ostial RCA stenting-Nailing the ostium. 2nd Interventional Treatment Strategies, Stockholm, Sweden.

August 29, 2013: Renal Denervation overview and update. 2nd Interventional Treatment Strategies, Stockholm, Sweden.

September 28, 2013: Future of renal denervation: New technologies and potential new indications. Bridging the Gap Symposium, Phoenix Heart.

September 28, 2013: Update: Implantable system for ischemia and MI detection and rapid intervention in coronary disease. Bridging the Gap Symposium, Phoenix Heart.

October 27, 2013: Ethanol injection for renal denervation (Ablative Solutions). TCT, San Francisco, CA.

October 29, 2013: Can we get transradial benefits through femoral artery access? The Arstasis Access System. TCT, San Francisco, CA.

Publications:

Hopenfeld B, John MS, Fischell TA, Johnson SR. A statistically based acute ischemia detection algorithm suitable for an implantable device. Annals of Biomedical Engineering 2012; DOI: 10.1007/s10439-012-0612-6.

Gibson CM, Krucoff M, Fischell D, Fischell TA, Keenan D, Abueg C, Patel C, Holmes D. Rationale and Design of the ALERTS (Angelmed for Early Recognition and Treatment of STEMI) Trial: A Randomized, Prospective Clinical Investigation. Am Heart J 2013

Fischell TA, Vega F, Raju N, Johnson ET, Kent DJ, Ragland RR, Almany ST, Fischell DR, Ghazarossian VE. Ethanol-Mediated perivascular renal sympathetic Denervation preclinical validation of safety and efficacy in a porcine model. EuroIntervention 2013;9:140-147.

Book Chapters:

Fischell TA, Ghazarossian VE, Vega F. Endovascular, Ethanol-Mediated Renal Sympathetic Denervation; Sub-Acute and Chronic Evidence of Safety and Sustained Efficacy in a Swine Model. JACC TCT 2013

Vishal Gupta, MD. MPH

Research

2013 A single centre retrospective study to identify the role of thyroid hormone in pathogenesis of Takotsubo cardiomyopathy

2012 A single centre study to determine the impact of fluid restriction on symptomatic improvement in patients with “Fluid overload syndrome”.

2013 Study to determine epidemiology of Takotsubo cardiomyopathy in United States: Review of Nationwide Inpatient Sample data.

Teaching lectures

2013 Jul TAVR Presentation, Three Rivers Grand Rounds
2013 April TAVR Presentation, Borgess Medical Center
2013 Mar PAD, Three Rivers Grand Rounds

Poster Presentations

1. Aggarwal S, Adu-Gyamfi KO, **Gupta V**. All that looks like “Brugada” is not “Brugada” – Case series of Brugada phenocopy caused by hyponatremia. Sep 2013
2. Aggarwal S, Papani R, **Gupta V**. Can thyroid "break" your heart? Role of thyroid in Takotsubo cardiomyopathy: A single center retrospective study. Sep 2013
3. Aggarwal S, Papani R, **Gupta V**. Epidemiology of Takot-subo cardiomyopathy in US: what does nationwide inpatient sample data say? Western Michigan University School of Medicine, Annual Research Day, April 2013, Kalamazoo. April 2013
4. Papani R, Aggarwal S, Kolla A, **Gupta V**. Thyroid Broke My Heart Twice! A Case Report of Recurrent Takotsubo Cardiomyopathy. ACP Michigan Meeting, Troy 2013
5. Aggarwal S, Kalavakunta J, **Gupta V**. Isolated right ventricular non-compaction with ST elevation in chest leads. ACP Michigan Meeting, Troy, 2013
6. Rangrass G, **Gupta V**. Milkers’s Callus and the Effect of Friction on the Biological Structure of an Affiliated Body Part.. Southwest Michigan Regional ISEF on March 22, 2013

Honors (resident and faculty):

Tim A. Fischell, MD

2012/2013 Oakland County Michigan’s Medical Main Street Innovator of the Year, Ablative Solutions, Inc.
2012 The Leading Physicians of the World
2012 Oakland County Michigan’s Medical Main Street Innovator of the Year, Ablative Solutions, Inc.
2012 Who’s Who Universal

Vishal Gupta, MD. MPH

2013 Award for Borgess Caring Hearts & Hands

Challenges/opportunities for upcoming year:

We continue to have some challenges with regard to clinical volumes for training purposes in peripheral vascular disease. We continue to strive to provide comprehensive training in peripheral vascular disease and in structural heart disease intervention. For this reason we have expanded the clinical experiences for the fellows with our continued collaboration with Dr. Mustapha at Metro Hospital in Grand Rapids, MI. We are hoping to continue to expand our faculty base to also address volume and diversity of training for our fellows. The addition of Dr. Frank Saltiel to the Heart Center practice has been helpful. Drs. Gupta and Saltiel have now started an active TAVR (percutaneous aortic

valve replacement) program to allow exposure of the fellows to state-of-the-art structural heart intervention. This should provide a great, cutting edge clinical opportunity for our fellows.

Despite the national trend of decreasing coronary interventional volumes, we continue to have excellent volume, with each of the recent fellow graduates participating in >500 coronary interventions. This makes our program still a high volume and sought after program. To date we have already received a record, 93 applications for our three training positions for the 2015/2016 academic year.

Briefly indicate at least one way your program addresses each of the ACGME Core Competencies:

Patient care

We have continued to evolve and refine our patient care responsibilities during our fellowship. We have improved our continuity of care initiatives by rotating and assigning each fellow to a different faculty member's outpatient clinic so that they may see patient's preprocedural, during the procedure and for post procedural follow-up. This program has been amended such that each of the fellows rotates with each of three different faculty for four month rotations. We believe that this will enhance their patient care learning experience.

Medical Knowledge

We believe that our journal club provides one of our best teaching opportunities. These are held for approximately two hours on a monthly basis. At least two, and as many as four current interventional cardiology scientific papers are reviewed and discussed in depth with regard there content, scientific validity, statistics, etc. We believe that this detailed and critical review of scientific literature on an ongoing basis will help enhance the ability of our fellows to critique scientific literature as they move forward in their career.

Practice-based learning and improvement

The fellows will have chart review by the program director in the next several months as part of an ABIM initiative with regard to board certification. This chart review and interview and feedback process will "close the loop" for each of the fellow's practice-based learning.

Interpersonal and communications skills

Each of the fellows is reviewed on at least a quarterly basis with regard to their communication skills and their interpersonal skills and communications skills with

staff, patients and faculty. The fellows also are engaged in public speaking in their role as case presenters at both the weekly clinical (cath, angio, surgical) conferences every Friday, as well as the morbidity mortality conferences.

Professionalism

As above, the fellows are monitored and evaluated on a regular basis with regard to their professionalism. There is a clear-cut chain of command and reporting process in the event of any disruption and deviation from professional behavior in the clinic, cath lab or in the research area.

Systems-based practice

The interventional cardiology fellows are integrated every year into at least one significant systems-based practice evaluation program. In the past year the fellows were actively involved in the BMC² data based monitoring for success rates in the treatment of aorto-ostial lesions. This has resulted in a manuscript that is in the process of submission. In addition, the fellows were involved in the review of access site complications in the Borgess cardiac catheterization laboratory. This has given a further awareness and appreciation and active participation in a systems-based practice initiative.

**College of Human Medicine
Michigan State University
Lansing Community Residency/Fellowship Annual Report
Academic Year: 2012-2013**

Program Name: Neonatal-Perinatal Medicine Fellowship
Program Director: Ira H. Gewolb, M.D.

Graduating fellows and destinations: None

Continuing fellows:

1. Chinyere Oarhe, M.D.- PGY-6
2. Sowmya Angusamy, M.D.- PGY-5
3. Tarek Mohamed, M.D.- PGY-5

Incoming fellows and medical school attended:

1. Erica Gautien, M.D.- Medical School--St. George's Medical School, Grenada
Residency- Albert Einstein, Philadelphia

Faculty changes: None

Major accomplishments over previous year:

1. Dr. Awonuga was selected to be Coordinator of MSU/Sparrow Pediatric Grand Rounds.
2. Dr. Awonuga initiated a simulation course to teach residents neonatal intubation.
3. Dr. Gewolb received a grant from The Michigan Initiative for Innovation and Entrepreneurship (MIIE) Technology and Commercialization Fund for his proposal entitled "Enhancement and Commercialization of an Innovative Non-Invasive Methodology for Diagnosing Gastroesophageal Reflux"
4. Dr. Karna spearheaded a statewide QI effort in standardizing the treatment of neonatal abstinence syndrome.

Research publications/presentations (fellows and faculty):

Abstracts/ Presentations at National Meetings:

Awonuga, M. : Congenital Adrenal Hyperplasia: Pediatric Grand Rounds, Lagos State University Teaching Hospital, Ikeja, Lagos, Nigeria

Panigrahi, P., Parida, S., Pradhan, L., Nanda, N., Satpathy, R., Chandel, D., Chaudhr7, R., Misra, P., Chen, H., Johnson, J.A., Morris, J.G., Paneth, N., and **Gewolb, I.H.**: Effectiveness of a *Lactobacillus plantarum* synbiotic therapy for preventing late onset sepsis in neonates. (presented at the Pediatric Academic Societies Meeting, Washington, DC, May, 2013)

Oarhe, C., Dang, V., **Gewolb, I.H.**, Uhal, B.D.: Hyperoxia down-regulates angiotensin converting enzyme-2. (Presented (poster) at the American Thoracic Society Meeting, Philadelphia, PA, May, 2013; poster #A6124).

Mohamed, T., **Gewolb, I.H.**, Uhal, B.D.: Angiotensin converting enzyme-2 (ACE-2) is up-regulated in fetal lung cells exposed to hypoxia. Submitted to the 2014 Pediatric Academic Societies meeting.

Mansour T, **Angusamy S**, Schutte B and **Omar S**. Role of Hemoglobin and Thrombopoietin in postnatal change in platelet count in very low birth weight infants. Submitted to the 2014 Pediatric Academic Societies meeting.

Angusamy S, Mansour T, Bruckner J, LaPres J, Schutte B and **Omar S**. Reduced thymocyte development and proliferation in neonatal mice exposed to hyperoxia. Submitted to the 2014 Pediatric Academic Societies meeting.

Gewolb, I.H. 3rd Annual NOMAS Meeting, Las Vegas, NV, October 2013
“Respiration: The necessary component for successful infant feeding”
“Methods of diagnosing gastroesophageal reflux in infants: A new accelerometric technique”

Presentations at local/regional meetings:

Awonuga, M.: Simulation Based Training in Neonatal Medicine: Society of Michigan Neonatologists Annual Conference, Brighton Michigan – 09/2013

Patel M, Lockwood L, Abbas A, Kuipel M, **Kadrofske MM**. Serotonin regulates mucosal morphology and enterocyte migration. 12th Annual Pediatric Research Day. March 22, 2013, Lansing, MI. Selected as “Best Oral Presentation Award”

Akoto S, Jakupovic J, Lockwood L, **Kadrofske MM**. Serotonin decreases RhoA activation in Caco-2 cells.

Kosuru K, Nantais-Smith L, Monga R, Swain G, **Kadrofske MM**. Identifying non-invasive biomarkers of necrotizing enterocolitis. 12th Annual Pediatric Research Day. March 22, 2013, Lansing, MI. [poster]

Mohamed, T., **Gewolb, I.H.**, Uhal, B.D.: Angiotensin converting enzyme-2 (ACE-2) is up-regulated in fetal lung cells exposed to hypoxia. Presented at the American Academy of Pediatrics-Midwest Regional Research Meeting, September, 2013, Chicago, IL.

Oarhe, C., Dang, V., **Gewolb, I.H.**, Uhal, B.D.: Hyperoxia down-regulates angiotensin converting enzyme-2. 12th Annual Pediatric Research Day. March 22, 2013, Lansing, MI. [poster] Selected for “Poster of Excellence” award

Nantais-Smith L, Monga R, Swain G, **Kadrofske MM**. Identifying non-invasive biomarkers of necrotizing enterocolitis. Wayne State University College of Nursing Annual Research Day. April 3, 2013, Detroit, MI. [poster]

Chavez M, Jakupovic J, Lockwood L, Akoto S and **Kadrofske M**. The role of serotonin in epithelial cell proliferation and apoptosis in the mouse ileum. Mid-Michigan Symposium for Undergraduate Research Experiences (Mid-SURE), July 24, 2013, East Lansing, MI

Papers:

Movsas, T.Z., Paneth, N.S., Rumbelha, W.K., Zyskowski, J.A., and **Gewolb, I.H.**: The effect of vaccination on serum aluminum and essential element levels in preterm infants. *J.A.M.A. Pediatrics* 167 (9): 870-872, 2013.

Patel M, Chonat S, **Olomu I**, Arrington S, and **Kadrofske M**. Absent left common and left external iliac artery presenting in a neonate. *J Perinatol* 2013; 33 (5), 407-09.

Commentary:

Gewolb, I.H.: Comment. *Obstet. Anesth. Dig.* 32: 32-33, 2012.

Gewolb, I.H.: Comment. *Obstet. Anesth. Dig.* 32: 158, 2012.

Gewolb, I.H.: Comment. *Obstet. Anesth. Dig.* 33: xxx, 2013. (in press)

Honors (fellows and faculty):

1. Dr. Gewolb & Mr. Vice received a United States Patent (#8,568,336 (10/29/13) for their invention- "Non-Invasive Diagnosis of Gastroesophageal Reflux Using Very Low-Frequency Accelerometric Detection." A similar patent was awarded in the United Kingdom, and patents are pending in Japan, Canada, and the Eurozone.
2. Dr. Omar was elected to the Alpha Omega Alpha honor society at Michigan State.
3. Dr. Gewolb was a featured speaker at the 3rd Annual NOMAS Meeting, Las Vegas, NV, October 2013, lecturing on "Respiration: The necessary component for successful infant feeding" and on "Methods of diagnosing gastroesophageal reflux in infants: A new accelerometric technique"
4. Dr. Oarhe (fellow) won a "Poster of Excellence Award" at the 12th Annual Michigan State University/Wayne State University Pediatric Research Day for her abstract entitled: Hyperoxia down-regulates angiotensin converting enzyme-2.
5. Dr. Karna was an Invited speaker at the 2013 Annual Meeting of VON and presented: Statewide NAS Collaboratives: Lessons Learned- Michigan" (Chicago, IL, October 2013).
6. Castle Connolly "Top Doctor" citation: Dr. Gewolb
7. America's Best Doctors Listing: Drs. Awonuga, Gewolb
8. US News and World Report-Top 1% of Physicians: Dr. Gewolb

Challenges/opportunities for upcoming year:

1. Expansion of the Fellowship program to 5 fellows. Already approved by ACGME, but funding not yet secured.
2. Continued challenges re: lack of subspecialty care, especially given “expansion” to Grand Rapids and the start-up of other medical schools, further eroding our referral base and jeopardizing the Fellowship. Some critical areas include neurology, endocrinology, pulmonology, developmental pediatrics, genetics, radiology, and various pediatric surgical subspecialties.
3. Working to maintain educational opportunities in the face of further duty hour restrictions and reduction of ACGME standards for competence in neonatology for pediatric residents.
4. Move of NICU and Obstetrics to Sparrow Tower. Plans for expansion of the program.
5. Shortage of NNP/PA/resident staffing in the NICU.

Briefly indicate at least one way your program addresses each of the ACGME Core Competencies:

Patient Care:

NICU experience: 12 months of service time spread over the 3 years. Daily rounds also serve as a teaching tool. A “Fellow-Attending” experience is reserved for the 3rd year.

Developmental Assessment Clinic experience: Approximately 12 days each year to learn developmental assessment techniques and the principles of follow-up care. Also provides experience in systems-based practices in Michigan.

Weekly X-ray rounds to review all interesting cases.

Pediatric Cardiology/Cardiac Surgery rotation is required at either University of Michigan or Wayne State (year 2 or 3).

Pediatric Surgery rotation/elective is recommended at either University of Michigan or Wayne State (year 2 or 3).

High Risk Obstetrics rotation/elective is recommended.

Medical Knowledge:

The following is a short list of the ongoing Core Conferences sponsored by the Division:

- Core Conference for Fellows – weekly. Covers basic physiological underpinnings of clinical practice.

- Morbidity & Mortality Case Reviews – monthly.
- Research Seminar Series – monthly. Invited speakers both intramural and extramural present their research findings. Periodic updates by our own faculty and fellows regarding their research
- Perinatology Conference - bi-monthly. Jointly with Ob-Gyn
- Pediatric Grand Rounds – weekly.
- Statistics Course - bi-annually.

Each fellow is required to produce a research product (paper or equivalent) by the end of the fellowship. A scholarship oversight committee exists for each fellow to oversee progress. Senior mentors are available both in and outside the Division

Practice-based Learning and Improvement:

This is accomplished through a variety of didactic experiences. The monthly journal club provides a practice-based learning activity, with review of an article jointly chosen by the fellow and a faculty supervisor. Particular emphasis is given towards the research design and statistics of the paper. The fellows present the results of the paper, which generally leads to a discussion of the relevance of the paper to the group’s clinical practice. Fellows are also given a formal introduction to computerized library skills and medical databases, as provided by Sparrow Hospital.

Fellows are also actively involved in various QI initiatives in the NICU.

Finally, procedural competence is overseen directly by faculty and more senior fellows until the requisite skills are attained.

Interpersonal and Communications Skills:

Fellows perform prenatal consultations on all likely admissions to the NICU. Initially this is done with supervision by faculty.

Fellows also participate in “family counseling sessions” with the faculty, on complex or ethically difficult situations.

Fellows are expected to be fully competent with the electronic medical record, EPIC, used in our NICU for daily progress notes, admission and discharge summaries.

Professionalism:

Fellows must be certified by the IRB to participate in clinical research. The IRB website provides excellent training in legal and ethical principles underlying patient care.

Daily work in the NICU provides a plethora of opportunities to think about ethical, complex, and emotional situations. These issues are discussed in our Joint Conferences with Ob-Gyn, M & M, Discharge Conferences, and Root Cause Analyses.

Monthly reviews of the performance of faculty and fellows is provided to the Nursing Manager, who reports problems to the Division Chief. Feedback from the Nursing staff thus helps identify lapses in professionalism, which are addressed immediately. The Division Chief is involved in giving feedback and providing counseling to all fellows.

Evaluations of elements of professionalism of the fellow are given each month by the responsible Attending, using the New Innovations System.

Systems-based Practices:

This is an ongoing effort involving faculty and fellows. Specific venues where this activity occurs are the joint Perinatology Conference, M & M, monthly case conferences, and the bi-annual review of the Fellowship Program which addresses ways to improve the entire hospital system as it impacts the Fellowship.

**College of Human Medicine
Michigan State University
Lansing Community Residency/Fellowship Annual Report
Academic Year: 2012-2013**

Program Name: Pediatric Residency
Program Director: Ashweena Gonuguntla, MD

Graduating residents and destinations:

1. Odoma Achor, MD – Pediatrician
Midland Medical Center, Midland, MI
2. Jessica Gengler, DO – Pediatrician
MSU / CHM, East Lansing, MI
3. Smija Jayaprakash, MD – Pediatrician
San Ramon, CA
4. Suad Khalil, MD – Neurology Fellowship,
Medical College of Wisconsin, Milwaukee, WI
5. Bhagya Mysore Venkatesh, MD – Pediatrician
Sparrow Pediatric clinic, Portland, MI
6. Dhiren Patel, MD – Gastroenterology fellowship
Wayne State, Detroit, MI
7. Erica Still, DO – Pediatrician
Mason Pediatric, Mason, MI
with additional training in child abuse
8. Anas Taqatqa, MD – Cardiology Fellowship,
Rush University, Chicago, IL

Incoming residents and medical school attended:

PL1

1. Amanda Torgeson, DO – Des Moines
2. Krystel Sharpe-Kamer, DO - at still - Arizona
3. Nastassia Richardson, DO - Kirksville
4. Erin C. Jakubowski, DO – MSU /COM
5. Sravani Avula, MD – Antigua
6. Katsuaki Kojima, MD - Japan
7. Mo'ath Alhamad, MD - Jordan
8. Christopher L. Thompson, MD – Minnesota

PL 2

- 1 - Anita Sebastian, DO – Bay State Childrens, MA –PL1
- 2 - Sabina Mullin, DO – Henry Ford, MI – PL1

Faculty changes

1. CHM peds Chair – Dr. English joined
2. GI – Dr. Bitar joined
3. Hem-Onc - Dr, Saah left
4. Hem-Onc – Dr. Hemker joined
5. Pulmonary – Dr, Gregoire-Bottex left
6. General Peds – Dr. Gengler joined

Major accomplishments over previous year:

1. Annual Pediatric Board Reviews were sponsored and organized by Department of Pediatrics and Human Development, College of Human Medicine since 2009 and have been continued with its most successful board review in May 2013. The 2013 course ran 4.5 days covering all board content. Resident feedback about the content and quality of the course was universally positive.
2. The first pediatric OSCE was held in May to evaluate communication, teaching, teamwork, sign-out, procedural skills, and professionalism. It was very well received and valued by residents. Positive feedback wishing we had more pediatric specific OSCEs.
3. Mock codes were expanded to include neonatal resuscitation and neonatal specific skills by Dr. Awonuga.
4. We received 10 yr accreditation by ACGME
5. We reduced citations from 16 to 5.
6. We have had a 100% board pass rate of our graduating classes 2 years in a row.

Research publications/presentations (resident and faculty):

1. Cerebellar mutism and reversible cytotoxic edema in influenza B-associated encephalopathy. Thabet F, Khalil S, Naz F, Dyme IZ. Pediatric Neurology. 2013.
2. Unusual case of West Nile Virus flaccid paralysis in a 10-year-old child. Thabet FI, Servinsky SE, Naz F, Kovas TE, Raghiv TO. Pediatric Neurology. 2013.
3. Aripiprazole-induced seizure in a 3-year-old child: a case report and literature review. Thabet FI, Sweis RT, Joseph SA. Clinical Neuropharmacology. 2013.
4. See attached ADS for core faculty though there are others....

Honors (resident and faculty):

1. Dr. Guertin – Children’s Miracle Network award
2. Suad Khalil - Outstanding teaching award from CHM medical students
3. Intern of the Year: Ashley Pence, DO
4. Resident Professionalism Award: Ryuma Tanaka, MD
5. Resident Scholar of the Year Award: Monalisa Patel, MD

6. Resident Teacher of the Year Award: Suad Khalil, MD
7. Maria Patterson Mentor of the Year: Sathyan Sudhanthan, MD
8. Subspecialist Teacher of the Year: Arpita Vyas, MD
9. Teacher of the year: Aditi Sharangpani, MD
10. Well Child Clinic Teacher of the Year: Kripa Thakur, MD

Challenges/opportunities for upcoming year:

1. Faculty development of milestones and NAS
2. Revising and implementing assessments to better assign milestones
3. Adolescent medicine faculty needed desperately, and better adolescent rotation
4. Finding faculty time for more direct observations

Briefly indicate at least one way your program addresses each of the ACGME Core Competencies:

1. **Patient Care:** H&PE direct observation forms are ongoing. These forms have improved the evaluation process providing residents with immediate feedback on their H&PE skills. Mock Code curriculum assesses PALS and procedures.
2. **Medical Knowledge:** ITE. Also Mock Board for the third year residents. The Board consisted of 100 questions and resembled an actual Board exam. Results of this test have correlated well with results of graduate performance on the actual Board exam. This test will continue to be used annually for residents soon to complete their training. Also, the Mock Code curriculum assesses PALS, NRP, and procedures.
3. **Practice-based learning and improvement:** The Research Curriculum was revised and now includes online, web-based modules as well as explicit timelines, mentors and worksheets to help residents complete research projects. This curriculum addresses knowledge and skill in areas of EBM, medical biostatistics and epidemiology, as well as in conducting clinical research. Residents must complete and present research projects. QI modules from IHI have been introduced into the research rotation, which most residents are taking 2nd or 3rd year.
4. **Interpersonal and communications skills:** Cultural Competency discussions were organized in collaboration with Sparrow Health Systems Human Resources and Diversity/Inclusion Department.
5. **Professionalism:** A Mini CEX focused on interpersonal skills and professional behavior is used as an evaluation tool for direct observation of the residents.

Through the Medical Home curriculum and the ILP (Individual Learning Plans) we have increased emphasis on self-reflection and self-assessment.

Professionalism lectures have been revised and added to the current didactics, with the collaboration of Dr. Mongoven from MSU Ethics.

8. **Systems-based practice:** A SBP rotation has been developed and implemented in the last year which incorporates all of the sub-competencies of SBP competency. This rotation is done during 3rd year of residency, and complements the advocacy curriculum, medical home curriculum and General Pediatrics rotations. Each of these curricula are implemented across the three year course of residency study. Patient safety modules from IHI and daily patient safety rounds have been added to the SBP rotation.

FACULTY SCHOLARLY ACTIVITY

Faculty Member	PMID1	PMID2	PMID3	PMID4	Conference Presentations	Other Presentations	Chapters Textbooks	Grant Leadership	Leadership or Peer-Review Role	Teaching Formal Courses
Gonuguntla, Ashweena					0	2	0	1	N	Y
Barry, Colleen					0	1	0	1	N	Y
Christensen, Rachel					0	0	0	0	N	Y
Gera, Renuka					0	2	0	0	Y	Y
Gewolb, Ira	23856981				3	6	0	2	Y	Y
Guertin, Stephen					0	0	0	0	N	N
Hennessey, Lawrence					0	1	0	0	Y	Y
Kadrofske, Mark	23624970				7	5	0	1	Y	Y
Karna, Padmani					1	4	0	5	Y	Y
Kulkarni, Roshni	23659532	23651313	23407670		14	13	1	23	Y	Y
Naz, Fareeha	23583058				0	3	0	1	Y	Y
Omar, Said					1	6	1	4	Y	Y
Raghib, Timur	23583058				0	0	0	0	N	Y
Rosenberg, Melissa					0	0	0	0	Y	Y
Sharangpani, Aditi					0	0	0	0	N	Y
Sigal, Yakov					1	3	0	1	Y	Y
Stiffler, Michael					0	0	0	0	N	Y
Stone, David					0	3	0	0	Y	Y
Sudhanthar, Sathyan					3	1	0	1	N	Y
Vyas, Arpitha	23922461	23891118	23795310		0	0	0	1	N	Y
Worthington, Ruth					0	2	0	0	N	Y

RESIDENT SCHOLARLY ACTIVITY

Resident	Year in Program	PMID1	PMID2	PMID3	Conference Presentations	Chapters Textbooks	Participated in Research	Teaching Presentations
Achor, Odoma	3				0	0	Y	Y
Gengler, Jessica	3				0	0	Y	Y
Jayaprakash, Smija	3				1	0	Y	Y
Khalil, Suad	3				1	0	Y	Y
Mysore Venkatesh, Bhagya	3				1	0	Y	Y
Patel, Dhiren	3				2	0	Y	Y
Still, Erica	3				0	0	Y	Y
Taqatqa, Anas	3				2	0	Y	Y

**College of Human Medicine
Michigan State University
Lansing Community Residency/Fellowship Annual Report
Academic Year: 2012-2013**

Program Name: Physical Medicine and Rehabilitation

Program Director: Michael Andary, MD

Graduating residents and destinations:

1. Nathan Condie- Fellowship in interventional spine and EMG at MSU.
2. Katie McCausland – Fellowship in interventional spine and EMG at MSU
3. Suyin Lee - Fellowship in interventional spine in Orlando Florida.

Incoming residents and medical school attended:

1. Meagan Smith – PG1 from MSU COM
2. Andrew Cooper – PG1 Arizona College of Osteopathic Medicine of Midwestern University, Glendale, AZ
3. David Hakopian PG2 Touro University College of Osteopathic Medicine, Vallejo, CA

Faculty changes

1. Added Becky Wyatt
2. Margaret Fankhauser is in partial retirement.

Major accomplishments over previous year:

1. We have addressed our deficiencies from ACGME review.
2. We hired a consultant Soroush Batmangelich, to help our residency address the deficiencies, and improve our organization. It was very helpful.
3. Presented at Lansing Research Day
4. Had a research presentation accepted at a national meeting AANEM.
5. Residents led by Mat Saffarian were the on-site physicians for the World Dwarf Games in East Lansing in July 2013.

Research publications/presentations (resident and faculty):

1. Zhu DC, Pearson R, Monroe J, Nogle S, Doyle S, Russell D, Liszewski C, Aniskiewicz A, Shingles M, Dietzel D, Andary M, DeMarco JK, Kaufman D. The dynamically changing default-mode network functional connectivity after concussion in sports. International Society for Magnetic Resonance in Medicine, 21st Annual Meeting and Exhibition, April 20-26, 2013, Salt Lake City, Utah, USA. (Abstract)
2. Andary MT, Wayne DA. The Electrodiagnostic Consultation. PMR. 2013 May;5 (5 Suppl):S107-11. doi: 10.1016/j.pmrj.2013.04.005. PubMed PMID: 23706396.

3. Condie N, Saffarian M, McCausland K, Austin E, Sylvain J, Andary M. Comparison of Four Different Techniques of the Superficial Fibular Sensory Nerve. Muscle and Nerve October (48):4 652. 2013.
4. Hallgren RC, Pierce SJ, Prokop LL, Rowan JJ, Lee AS. Electromyographic activity of rectus capitis posterior minor muscles associated with voluntary retraction of the head. Spine J. 2014 Jan 1;14(1):104-12. Epub 2013 Aug 15. PubMed PMID: 23954557.

Honors (resident and faculty): Nothing to report

Challenges/opportunities for upcoming year:

1. Implementation of the NAS system.
2. Regular scheduling of times for our faculty and residents to be together for the clinical competency committee (CCC) and Program Evaluation Committee (PEC).
3. Addition of approximately 15 inpatient rehabilitation beds at Sparrow Hospital.

Briefly indicate at least one way your program addresses each of the ACGME Core Competencies:

Patient Care:

Progressive responsibility is developed and achieved by several mechanisms including:

- Gradually increased responsibility with inpatient rehabilitation service, team conference management, and decision making on the inpatient ward and outpatient clinics.
- Supervision of junior residents and medical students during the senior rotation on the inpatient rehabilitation ward
- Gradually increased responsibility in residency continuity clinic
- Increasing responsibility in EMG consultations and testing (initially doing histories and physicals, then nerve conduction studies on the arm, then nerve conduction studies on the leg, then needle EMG
- Senior residents and Chief Residents are responsible for and participate in scheduling of didactics, rotations and leave times.
- Faculty encourage and allow increasing responsibility on consults and outpatient services as they have acquired the knowledge and skills for that practice area

Medical Knowledge:

Lectures and AAPMR and AANEM self assessment examinations.

Practice-based Learning and Improvement:

- We use a portfolio to monitor resident accomplishments and goals. Specifically, there is documentation of articles read, and a brief description of how this was used in patient care.
- All residents are participating in quality improvement.

Interpersonal and Communications Skills:

Residents and attendings jointly attend, coordinate and document team and family conferences.

- Initially residents observe and provide medical and functional information. As their experience increases, they move towards leading team and family conferences.
- Goals and objectives for the conferences, with feedback about team dynamics, including communication skills, are reviewed with the attending physician on a regular basis.
- Residents initially primarily observe, then as abilities warrant, participate and eventually lead outpatient team or family conferences.
- Residents receive counseling, role modeling, and feedback from other team members including social work, nursing, and other therapies.
- The outpatient team conferences are attended and directed by attending physicians and primarily observed by residents.

Professionalism:

This should be done on a regular and daily basis.

- Residents talk to each other about issues of coverage, patient transfers, and patient care. The ancillary staff in the clinics are encouraged and required to give the Program Directors formal written (email) feedback on resident professionalism and communication skills.
- This competency is reviewed in the monthly evaluations and in the semi-annual reviews with the Program Director(s).

Systems-based Practices: We have had two opportunities for residents to participate in root cause analysis “projects”. Some of the resident quality improvement projects are related to improving team systems through inpatient rehabilitation at Sparrow Hospital.

**College of Human Medicine
Michigan State University
Lansing Community Residency/Fellowship Annual Report
Academic Year: 2012-2013**

Program Name: Surgical Critical Care Fellowship

Program Director: Chet Morrison, MD

Graduating residents and destinations:

1. Larry Ansari – Sparrow Hospital

Incoming Fellow and medical school attended:

1. David Giammar – Northeastern Ohio Universities College of Medicine

Faculty changes

1. Dr. Chet Morrison - PD (Left department)

Major accomplishments over previous year:

NA

Research publications (resident and faculty):

1. Anderson CI, Nelson C, Graham C, Mosher BD, Gohil K, Morrison CA, Schneider PD, Kepros JP. Disorganized care: The findings of an interative, in-depth analysis of surgical morbidity and mortality. J Surg Res. In Press. 2012 PMID:22709684
2. Kepros JP, Opreanu RC, Samaraweera R, Briningstool A, Morrison CA, Mosher BD, Schneider P, Stevens P. Whole Body Imaging in the Diagnosis of Blunt Trauma, Ionizing Radiation Hazards and Residual Risk. European Journal of Trauma and Emergency Surgery. In Press. 2012
3. Saadeh Y, Gohil K, Bill C, Smith C, Morrison C, Mosher B, Schneider P, Stevens P, Kepros JP. Chemical venous thromboembolic prophylaxis is safe and effective for patients with traumatic brain injury when started 24 hours after the absence of hemorrhage progression on head CT. J Trauma Acute Care Surg. 2012 Aug;73(2):426-30. doi: .1097/TA.0b013e31825a758b.PMID: 22846950
4. Morrison C. The prehospital treatment of the bleeding patient—dare to dream. The Journal of Clinical Research. 2013 Apr;180(2):246-7. Doi: 10.1016j.jss.2011.12.022. PMID: 22504135
5. Kepros J, ACP Journal Club. Refusal of transfusion for cardiac surgery was not associated with shorter long-term survival. Annals of Internal Medicine. 2012 Nov 20;157(10)JC5-11. Doi: 10.7326/0003-4819-157-10-201211200-02011. PMID: 23165687
6. Kepros J. An 8-factor prognostic model predicted early death in patients with traumatic bleeding. Annals of Internal medicine. 20012 Nov 20;157(10)JC5-13. Doi: 10.7326/00034819-157-10-201211200-02013 PMID: 23165689

Research Presentations (resident and faculty):
NA

Honors (resident and faculty):

1. John Kepros - Best Doctors® 2013

Challenges/opportunities for upcoming year:

1. Transition to new program leadership: Current program director has accepted a new position in Virginia.
2. Funding for Fellow position

Briefly indicate at least one way your program addresses each of the ACGME Core Competencies:

Patient Care:

Weekly Pre-Operative Management Conference

Medical Knowledge:

7:00am–8:00am: M&Ms

8:00am–9:00am: Grand Rounds (1st & 3rd week),

Practice-based Learning and Improvement:

Weekly Surgical Morbidity & Mortality conference

Interpersonal and Communications Skills:

Presentation from Dr. Smith and Francesca Dwamena

Professionalism:

Lecture from Dr. Beck

Systems-based Practices:

Invited Speakers:

Dr. Baumgartner

Steven Pruett, PhD

Ronald Horowitz, MD

Bin Gao, MD, PhD

Robert C. Smith, MD

**College of Human Medicine
Michigan State University
Lansing Community Residency/Fellowship Annual Report
Academic Year: 2012-2013**

Program Name: Vascular Fellowship Program

Program Director: Carlo A. Dall'Olmo, M.D.

Graduating residents and destinations:

1. None (New Program)

Incoming residents and medical school attended:

1. Sherry L. Cavanagh, M.D.
2. Mohammad Sarhan, M.D.

Faculty changes

1. Cherie R. Phillips, M.D. (Added as Core)
2. Gregory J. Fortin, M.D. (Changed to teaching, non-Core)

Major accomplishments over previous year:

1. Started program July 2013

Research publications/presentations (resident and faculty):

1. Endograft Salvage of hemodialysis accesses threatened by pseudoaneurysms. *Journal of Vascular Surgery*. Jan. 2013, Vol.57, No.1 pp.137-143. (Faculty; Kinning, Becker, Fortin, Molnar, Dall'Olmo)
2. The Role of Genetic Evaluation and Preoperative Embolization in the Management of Paragangliomas of the Head and Neck. Presentation, American Head and Neck Society, 8th International Conference on Head and Neck Cancer, July 21-25, 2012 (Faculty: Russell Becker RW, Kinning, WK, Molnar, RG)
3. Successful Endo repair in a hostile abdomen, Oral Case Presentation, ANCHOR Registry Investigators Meeting, Society for Vascular Surgery Annual Meeting, May 31, 2013 (Faculty, Nitin G. Malhotra, MD)
4. Sustained Patency and Clinical Improvement Following Treatment of Atherosclerotic Iliac Artery Disease Using the Assurant Cobalt Iliac Balloon-Expandable Stent System." *Journal of Endovascular Therapy*. Feb. 2013, Vol.20, No. 1, Pp.94-103. (Faculty: Molnar, RG)

Honors (resident and faculty):

1. Program Director, Carlo A. Dall'Olmo, Named Distinguished Fellow for the Society for Vascular Surgery (SVS), 2012

Challenges/opportunities for upcoming year:

1. Recruit 2 additional Fellows to fill our open positions for 2014.
2. Implement new Milestones for Vascular Surgery, now in Draft form

Briefly indicate at least one way your program addresses each of the ACGME Core Competencies:

Patient Care:

- Fellows round with a Faculty Member to enhance learning
- Hand-over policy /procedure developed

Medical Knowledge:

- Vascular Medicine, Science & Therapeutics Conference (Monthly)

Practice-based Learning and Improvement:

- Participation in Michigan Vascular Center's Quality Improvement Meetings

Interpersonal and Communications Skills:

- Fellows run the vascular service at McLaren Flint, teaching & supervising residents

Professionalism:

- Program Director advises at quarterly Fellow meetings
- Evaluated quarterly by faculty on Rotation evaluations

Systems-based Practices:

- VSITE Conference (Monthly) incorporated education about cost of procedures in making choices