GME Annual Report

MSU-CHM Lansing Community

2013-2014

11/14/2014
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Introduction

The CHM Graduate Medical Education programs in the Lansing community have concluded the 2013-14 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

With the transition to the New Accreditation System (NAS), the GME office is transitioning to a greater support and monitoring role, assisting programs in meeting milestone and other recording duties within the NAS. In addition, the NAS offers our office the opportunity to serve in a much more formative manner through the Special Review process. In this process, the GME office assists programs in identifying problems and seeking solutions (much in the way the former Internal Review process worked, but in a more focused manner). Our Cardiology Fellowship was our first program to be scheduled for a Special Review, with results to be reported in the 2014-15 Annual Report.

The GME office was pleased to assist the Mid-Michigan—Gratiot Family Medicine Residency as they began the process of initial accreditation this year. We are hopeful that the program will receive full accreditation in time to begin recruiting for the 2015-16 academic year.

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.
• 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. In this academic year, all incoming residents are expected to achieve certificate level of training (or equivalent) through the Institute for Healthcare Improvement.
• Resident compensation and benefits—Compensation and benefits were reviewed by GMEC members at the June, 2014, GMEC 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.

We continue to await our first Clinical Learning Environment Review (CLER). However, the GME office presented a very successful conference on the CLER process in January, 2014, in Midland. 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. Presenters discussed their experience with institutional CLER visits and many conversations were held through the course of the day regarding how best to prepare our learning environment to meet the challenges of medical education.

**Highlights of each program are attached.**

Respectfully submitted,

[Signature]

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

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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 Subramaniyam – Kipauk Medical College, India
4. Fadi Alreefi – Taibah University, Saudi Arabia

Faculty changes
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:


Abstracts


Book Chapters:


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

Graduating residents and destinations:
1. Annie Williams, DO – Henry Ford Health system, Detroit, MI  
2. Karen Dobias, DO – Muskegon CMH, MI

Incoming residents and medical school attended:
1. Zachary Gleeson, COM, MSU  
2. Katherine Krive, COM, MSU

Faculty changes
None

Major accomplishments over previous year:
1. Karen Dobias – Mini Grant winner through State Wide Campus system. 
2. Involving child residents in research opportunities in Malawi and Uganda, Africa.  
3. Presentations by faculty at the World Psychiatric Association, Regional  
   Conference in Uganda, Africa on ADHD symptoms and disruptive behaviors seen  
   in post cerebral malaria children.

Research publications/presentations (resident and faculty):

Scheid J., 2013-2014, AACAP Advocacy and Collaboration Grant  


Magen J, Boivin M, Richards M, Psychiatric Screening and DSM IV clinical diagnosis  
confirm attention and defiant behavior problems following cerebral malaria in Malawian  
children, State Wide Campus System Research Poster Day, College of Osteopathic  
Medicine, MSU, East Lansing, MI
Richards, M., February 2014, Psychiatric Screening and DSM IV clinical diagnosis confirm attention and defiant behavior problems following cerebral malaria in Malawian children, World Psychiatric Association Regional Meeting, Kampala, Uganda

GRANTS for Michael Boivin, PhD

*Active*

R01 HD080467 (Cotton) 04/01/2014 – 03/31/2019
NIH/NICHD $3,747,020

*Latent reservoir characterization and correlations with neurocognitive functioning.*
We will correlate reservoir size with neurocognitive/neuroimaging outcome and thymic outflow in our CHER pediatric HIV study cohort. A new cohort of HIV-infected infants initiated on ART within the first week of life will also be studied. We will compare reservoir size in these infants with results from the CHER subjects, who were started at a median of 7 weeks of age. Role: Consultant

R21TW010004 (Tshala-Katumbay) 04/01/14 – 03/31/16
Fogarty International Center/NINDS/NIH $200,000

*Onchocerciasis-associated neurodevelopmental deficits: the hit squad*
The goal of this study is to elucidate the role of food (cyanogen) toxins in in the pathogenesis of motor and cognitive disabilities associated onchocerciasis and treatment with ivermectin. Role: Consultant

2R01 NS055349 (John) 1/15/2014 - 12/31/2018
NIH/NINDS $2,710,531

*Neurodevelopmental outcomes in children with severe malaria*
The study’s central hypothesis is that different types of severe malaria affect distinct pathogenic pathways leading to specific functional areas and levels of impairment. Role: Co-I

*Completed*

R34MH084782 (Boivin) 03/01/2010-02/28/2014 No-Cost Extension
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

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

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

Peer-Reviewed Journal Publications (IF = impact factor of journal).


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

P. Quinlan: Hurley Medical Center 2014 Pediatric Update: ADHD. May 7, 2013. Flint MI.


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


Title: Perinatal Depression: Physician Attitudes on Screening and Educating Patients. Primary Investigator: Alyse Ley DO Co-Investigators-Nicole Albrecht MD, Daniel Dawis DO Submitted: 8/15/14

Title: Effect of Student Class Attendance in the First Two Years of Medical School on Preparedness and Transition to the Clinical Clerkships Primary Investigator: Brian Smith MD Co-Investigator: Alyse Ley DO Submitted: 8/16/13


Honors (resident and faculty):

Michael Boivin, PhD
May 21, 2014: Winner of best faculty research poster and co-presenter on runner-up research poster at the 1st annual research poster session of the Michigan State University College of Osteopathic Medicine Statewide Campus System (SCS) meeting, East Lansing, MI: May 21, 2014.


September 26, 2013: Co-recipient of the Michigan State University – College of Osteopathic Medicine Faculty Humanism Award: Michigan State University, East Lansing, MI.

Jed Magen – April 2014: Second place in SCS Research Day, Faculty Poster

Challenges/opportunities for upcoming year:
1. Recruiting for upcoming years
2. Participation in Mid Michigan Research day
3. Expanding the Child and Adolescent Psychiatry Program to the Flint area
4. Expanding our telepsychiatry sites
5. Expanding more research opportunities in Malawi and Uganda

Briefly indicate 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

2. **Medical Knowledge**
   - Child PRITE Exam
   - Diagnostic assessments (Mock boards)
Review of charts and records
Faculty evaluation
Resident presentations

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 (This is added because the Child Psychiatry Program is dually accredited)
Program Name: Endocrinology Fellowship
Program Director: G. Matthew Hebdon, MD

Graduating residents and destinations:

Incoming residents (include medical school attended):
1. 2014 incoming – Preethi Krishnan, MD – Kempegowda Institute of Medical Sciences, India
2. 2013 incoming - Nitika Malhotra, MD – Government Medical College, Amristar India

Faculty Changes:
Dr. Gossain will be starting his consulting year January 2015

Major accomplishments over previous year:
Smooth transition of the Diabetes Center from Sparrow to MSU.

Research publications/presentations (resident and faculty):

Matthew Hebdon, MD

Publications:


Abstracts


**Saleh Aldasouqi, MD – Key Faculty**

**Publications:**


**Abstracts:**


**Ved Gossain, MD – Key Faculty and Division Chief**

**Publications**


**Abstracts**


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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 – graduated June 2013


Reem Alnazawi, MD – PGY 2

Abstract

1. Malhotra N, Alnazawi R, Hebdon GM, Gossain V. Prevalence of osteoporosis preventive measures, treatment and monitoring in patients receiving glucocorticoids. MI Chapter AACE Meeting 2014; Traverse City, Michigan

Deepthi Rao, MD – PGY 2


Nitika Malhotra, MD – PGY 1


Honors (resident and faculty):

Deepthi Rao awarded a 2014 Helmsley Charitable Trust Abstract Award in type 1 diabetes in conjunction with ICE/ENDO 2014 June meeting in Chicago. Abstract title: A Case of Continued Insulin-Independence 8 Years after Islet Cell Transplantation: A Promising Remedy for Type 1 Diabetes

Challenges/opportunities for upcoming year:

1. We will try to recruit additional fellow, sponsored by Saudi government.

2. We will no longer have access to Dr. Carella at MMP and will need to provide teaching of FNA’s here at MSU.

3. Expand curriculum to include more thyroid ultrasound in anticipation of new requirements from ABIM/AACE.

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

**Endocrinology Site Visit – Competency Worksheet**

○ Medical Knowledge

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<thead>
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<th>How Taught</th>
<th>How Assessed</th>
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<tr>
<td>During patient care – 1:1 interactions with faculty</td>
<td>Monthly evaluations from attendings</td>
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<tr>
<td>Required conferences (includes research conferences, journal club)</td>
<td>On going evaluation by faculty</td>
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<td>Semi annual reviews with PD</td>
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<td>In training exam</td>
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### Patient Care

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

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

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<th>How Taught</th>
<th>How Assessed</th>
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<tr>
<td>During patient care – 1:1 interactions with faculty. HIPPA compliance tutorial IRB tutorial for research</td>
<td>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</td>
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## Practice Based Learning and Improvement

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<th>How Taught</th>
<th>How Assessed</th>
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<td><strong>Self assessment; directed learning; incorporation of feedback into daily practice:</strong> Performed and modeled during patient care</td>
<td>Monthly evaluations from attendings</td>
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<td>Semi annual reviews with PD</td>
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<tr>
<td><strong>Practice improvement:</strong> Conferences, PI project(s)</td>
<td>Practice improvement modules and self-directed projects</td>
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<td><strong>Evidence based medicine:</strong> 1:1 discussion with attendings in conferences and during patient care</td>
<td>Journal club and application during patient care</td>
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<td><strong>Information technology:</strong> during patient care (EMR, hospital information systems); use of electronic library resources in patient care, conference</td>
<td>Use of EMR</td>
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<td></td>
<td>Use of electronic library sources in patient care, conference – part of monthly evaluation</td>
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<td><strong>Education of others:</strong> talks during endo conferences, talks with residents (including during rotation or conference series)</td>
<td>Feedback from faculty</td>
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<td>Teaching evaluations from residents (IM)</td>
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## Systems Based Practice

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<tr>
<th>How Taught</th>
<th>How Assessed</th>
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<tr>
<td><strong>Work effectively in various settings:</strong> clinical experience at MSU, Sparrow, and MMP offices</td>
<td>Monthly evaluations from attendings</td>
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<td>Semi annual reviews with PD</td>
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<td><strong>Coordinate patient care:</strong> communication with referring physicians, ordering tests etc across settings, communicating with patients</td>
<td>Monthly evaluations from attendings</td>
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<td>Semi annual reviews with PD</td>
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<td>Nurse evaluations</td>
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<td><strong>Cost awareness, risk-benefit analysis:</strong> in context of patient care, conferences</td>
<td>Monthly evaluations from attendings</td>
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<td>Semi annual reviews with PD</td>
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<tr>
<td>Advocate for system improvements</td>
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<tr>
<td><strong>Work in interprofessional teams:</strong> ie clinic, diabetes clinic; role modeling and interactions</td>
<td>Monthly evaluations from attendings</td>
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<td>Semi annual reviews with PD</td>
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<tr>
<td></td>
<td>Nurse evaluations</td>
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<tr>
<td><strong>Identify and help fix system errors:</strong> 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</td>
<td>Monthly evaluations from attendings</td>
</tr>
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<td></td>
<td>Semi annual reviews with PD</td>
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Program Name: General Adult Psychiatry Residency
Program Director: Alyse Ley, D.O

Graduating residents and destinations:
Hanna Saad MD-Completed PGY III-Transfer to Wayne State University to complete Child Psychiatry Fellowship-July 1, 2014
Zachary Gleeson DO- promoted to PGY IV July 28, 2014 -started the Child Psychiatry Fellowship August 1, 2014

Resident Evaluation/Promotion:
PGY IV
Marie Beasley DO-scheduled to graduate September 25, 2014-maternity leave
Miko Rose DO-extended for family issue; schedule to graduate April 10, 2015
Daniel Cote’ DO-extended due to family issues/part-time schedule; scheduled to graduate December 31, 2014

PGY III
Rebecca Brown DO- promoted to PGY IV July 2014
Ruth Baer DO- promoted to PGY IV September 2014-entered into the program in September 2012
Jamie Arnold DO- promoted to PGY IV September 2014-maternity leave
Junko Yasuda-Free DO- promoted to PGY IV October 2014-maternity leave
Zachary Gleeson DO- promoted to PGY IV July 28, 2014 -started the Child Psychiatry Fellowship August 1, 2014

PGY II
Erica Larsen DO - promoted to PGY III July 2014
Dora Hillman DO - promoted to PGY III July 2014
Jesse Guasco DO- promoted to PGY III July 2014
Nicholas Sandersfeld DO- promoted to PGY III July 2014
Sarah Burke DO- promoted to PGY III July 2014

PGY I
Daniel Dawis DO- promoted to PGY II July 2014
James Hartzler DO- promoted to PGY II July 2014
Samantha Kennedy DO- promoted to PGY II July 2014
Nicole Albrecht MD- promoted to PGY II July 2014
Deepti Mughal MD-resigned October 2014

Incoming residents July 2014 (include medical school attended):
Jon Minh-Nguyen DO- Midwestern College of Osteopathic Medicine-Arizona
Lawrence Greenberg DO-Touro University College of Osteopathic Medicine-Nevada
Alycia Ernst MD-Michigan State University Department of Psychiatry
Vivek Vanaharam MD- Sri Ramachandra Medical College and Research Institute, India
Nana Achampong MD- Michigan State University Department of Psychiatry
Sarah Zyskowski DO-transfer into the PGY II class from Wayne State University-
Department of Psychiatry

Major accomplishments over previous year:
1. Continued 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 faculty member- Jose Herrera, MD to the St. Lawrence Adult Psychiatric Unit.
4. Expansion of elective rotations for resident in Malawi, Uganda, and Mexico
5. Two Residents completed one month rotation in Merida, Mexico
6. Collaboration with psychiatrists in Merida, Mexico on international learning series
7. APA SAMSHA Minority Fellowship
8. Professional Scientific Training Conference on Children’s Social and Emotional Wellbeing- Amman, Jordan in conjunction with UNICEF and UNFPA and Jordan River Foundation
9. Integration of the Joy Initiative into the MSUCOM Curriculum: A Study of the Efficacy of Mindfulness and Joy-Focused Psychosocial Interventions on Wellness in Medical Students.
10. Collaboration with the Ingham County Mental Health Court and Community Mental Health-Forensic Rotation
11. Continued publication of the Muslim Mental Health Journal
12. Hosted the annual Muslim Mental Health Conference
13. Integrated Psychiatry/Family Medicine clinical experience
14. FM/IM/Psychiatry integrated quarterly conference

Senior Research presentations June 2014.
Hanna Saad MD-“Residents as Teachers: How Far Have We Come?”
Marie Beasley DO-“Barriers to Utilizing Long-acting Injectable Antipsychotic Medications”
Research publications/presentations (resident and faculty):


Title: Perinatal Depression: Physician Attitudes on Screening and Educating Patients. Primary Investigator: Alyse Ley DO Co-Investigators-Nicole Albrecht MD, Daniel Dawis DO Submitted: 8/15/14

Title: Effect of Student Class Attendance in the First Two Years of Medical School on Preparedness and Transition to the Clinical Clerkships Primary Investigator: Brian Smith MD Co-Investigator: Alyse Ley DO Submitted: 8/16/13


Smith, B, Summer 2014, ADMSEP Annual Meeting, Keystone, Colorado (Workshop: Using Small Groups to Address Medical Student Mental Health)

Scheid J., 2013-2014, AACAP Advocacy and Collaboration Grant


Magen J, Boivin M, Richards M, Psychiatric Screening and DSM IV clinical diagnosis confirm attention and defiant behavior problems following cerebral malaria in Malawian children, State Wide Campus System Research Poster Day, College of Osteopathic Medicine, MSU, East Lansing, MI
Richards, M., February 2014, Psychiatric Screening and DSM IV clinical diagnosis confirm attention and defiant behavior problems following cerebral malaria in Malawian children, World Psychiatric Association Regional Meeting, Kampala, Uganda


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

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


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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


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

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

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.

RAI1SE - Early Treatment Program (ETP) - [RAI1SE (Recovery After an Initial Schizophrenia Episode)]Prinicipal Investigator. Sponsor NIMH. 2010 to present.


**Boivin M - GRANTS**

*Active*

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<th>RO1 HD073296 (Boivin, Fowler)</th>
<th>08/01/2012 – 07/30/2017</th>
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<tr>
<td>NIH/NICHD</td>
<td>$2,396,524</td>
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*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

Development of mobile-network based cognitive rehabilitation programs (Brain Powered Games or BPG) for submission of an RO1 type 3 supplement submission for R01HD064416 (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

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
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

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

MRI neuroimaging and cognitive study of HIV-infected children.

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

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


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**Book Publication**


**Book Chapters**


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**Federal and Other Research Grants:**

1. 196-212. 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

2. D43TW00982 (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, 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

3. 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

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

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. 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

8. 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 Ugana and
Malawi PROMISE study sites, and will also evaluate neurological and
hematological outcomes. Role: PI

Honors (resident and faculty):
1. Miko Rose D.O.- APA/Substance Abuse and Mental Health Services Award
   Fellowship
2. Hanna Saad M.D.-MPS Resident President
3. Nicole Albrecht M.D. –MPS President Elect
5. Michael Boivin, PhD-May 21, 2014: Winner of best faculty research poster and co-presenter on runner-up research poster at the 1st annual research poster session of the Michigan State University College of Osteopathic Medicine Statewide Campus System (SCS) meeting, East Lansing, MI: May 21, 2014.
7. Michael Boivin, PhD-September 26, 2013: Co-recipient of the Michigan State University – College of Osteopathic Medicine Faculty Humanism Award: Michigan State University, East Lansing, MI.
8. Jed Magen – April 2014: Second place in SCS Research Day, Faculty Poster

Challenges/opportunities for upcoming year:
1. Expand general residency international electives
2. Milestone implementation
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 -SCS
Program Name: Hematology/Oncology Fellowship
Program Director: Anas Al-Janadi, MD

Graduating residents and destinations:
1. Mohammad Omaira, MD – private practice, Western Michigan Cancer Center, Kalamazoo, MI

Incoming residents and medical school attended:
1. Joseph Kannarkatt, MD
   a. Medical school: Jefferson Medical College of Thomas Jefferson University, Philadelphia, PA
   b. Residency: York Hospital, York, PA
2. Omar Alkharabsheh, MD
   a. Medical school: Jordan University of Science and Technology, Amman, Jordan
   b. Residency: Hurley Medical Center/Michigan State University

Faculty changes

None

Major accomplishments over previous year:

Strengthened clinical partnership with McLaren Hospital

Honors (resident and faculty):

**Challenges/opportunities for upcoming year:**

1. Recruit 2 new faculty members.

**Research publications/presentations (resident and faculty):**

**Anas Al-Janadi, MD**

**Publications:**


**Book Chapter:**


**Abstract:**


**Presentations:**


Poster:


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**

**Publications:**


**Abstracts:**


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Deimante Tamkus, MD

Grants:

1. Dimitrov’s Cancer Research Career Development Award, MSU
   Principal Investigator:  Deimante Tamkus, MD
   Period of support:  35% salary support
   Total Direct Funding:  $25,000/year
   Project Title:  Functional characterization and target validation of endothelin system
   in breast cancer cell lines and human breast cancer tissue

2. NSABP
   Principal Investigator:  Deimante Tamkus, MD
   Period of support:  2009-present
   Percent of effort:  10%

3. CD-ON-MEDI-573-1030 A phase 2 randomized study of MEDI-573 in combination
   with an aromatase inhibitor (A1) versus A1 alone in women with metastatic breast
   cancer:
   PI:  Deimante Tamkus, MD
   Period of support:  2012-present

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 nose-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 Hrinczenko, MD

Publication:


Abstract:


Poster Presentations:

FELLOWS:

Hemasri Tokala, MD

Poster:


Publications


Peter Kurniali, MD

Publications:


**Book Chapter:**


**Abstracts:**


**Mohamed Shaik, MD**


**Mohammad Omaira, MD**


**Mohamed Akkad, MD**


**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.
Program Name: Infectious Disease Fellowship
Program Director: Daniel Havlichek Jr. MD
Associate Program Director: MaryAnn Tran, MD

Graduating residents and destinations:
1. Fadi Abu-Yasin, Detroit, Private Practice

Incoming residents and medical school attended:
1. Hanish Singh, MD, St Georges

Faculty changes
None

Major accomplishments over previous year:
1. Dr. Yasin presented his research at the state infectious disease society meeting

Research publications/presentations (resident and faculty):

Daniel Havlichek, MD


MaryAnn Tran, MD


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Apoorv Kalra, MD


Gary E. Stein, PharmD


Stein GE, Should we use ceftriaxone to treat Staphylococcal osteoarticular infections? IDCP, May 2014, 130-131


Fellow:

Razi Syed, MD – graduated June 2013


Honors (resident and faculty):

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

Challenges/opportunities for upcoming year:

1. Clinical work load will increase with departure of Dr. Kulhanek. Will need to work to make sure education of fellows is not compromised.
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 C. difficile infection and antibiotic stewardship. 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.
Program Name: Integrated Residency in General Surgery
Program Director: Michael K. McLeod

Graduating residents and destinations:
1. Rafael Ruggieri – Mary Rutan Hospital; Bellefontaine, OH – Staff Surgeon
2. Nicholas Harms – Pipestone County Medical Center; Pipestone, MN – Staff Surgeon
3. David Henry – MIS Fellowship; Pittsburgh, PA – Fellow
4. Darcy Shaw – Colorectal Fellowship; Creighton, Omaha, NE - Fellow

Incoming residents and medical school attended:
1. Abghari, Michelle – Wayne State University School of Medicine
2. Baugh, Aaron – University of Toledo College of Medicine and Life Sciences
3. Behr, Ian – Wayne State University School of Medicine
4. Hsu, Kun-Tai – Northwestern University Feinberg School of Medicine
5. Nebeker, Cody – Michigan State University college of Human Medicine
6. Ochoa-Frongia, Laura – University of Michigan School of Medicine
7. Rashid, Lewis – Wayne State University School of Medicine
8. Walsh, Patrick – Michigan State University college of Human Medicine

Faculty changes
1. Dr. James Mayle (Retired)
2. Dr. Roy Bergman (Retired)

Major accomplishments over previous year:
1. Outstanding Educator Award, Flint Campus – Michael Kia
2. Outstanding Educator Award, Lansing Campus – Robert Osmer
3. Highest Junior ABSITE – Shay Mansoor
4. Highest Senior ABSITE – Kaori Ito
5. Most Improved Junior – Yetnayet Zewge
6. Most Improved Senior – Mersadies Martin

Research publications (resident and faculty):


~ 52 ~


during early SIV infection of rhesus macaques. Alcoholism: Clinical and Experimental Research (In press).


Research Presentations (resident and faculty):


emergent exploratory laparotomy for acute abdomen? Regional meeting of the American College of Surgeons Trauma Committee, November 2013. Indiana.


Honors (resident and faculty):
1. Sergio Bardaro - 2014 Best Doctors in America® list
2. Marc Basson - 2014 Best Doctors in America® list
3. Harvey Bumpers - 2014 Best Doctors in America® list
4. Karen Ching - 2014 Best Doctors in America® list
5. James Clarkson - 2014 Best Doctors in America® list
6. Michael Eigenberg - 2014 Best Doctors in America® list
7. Srinivas Kavuturu - 2014 Best Doctors in America® list
8. John Kepros - 2014 Best Doctors in America® list
9. Edward Lanigan - 2014 Best Doctors in America® list
10. Michael McLeod - 2014 Best Doctors in America® list
11. Benjamin Mosher - 2014 Best Doctors in America® list
12. Robert Osmer - 2014 Best Doctors in America® list
13. Janet Osuch - 2014 Best Doctors in America® list
14. Andrew Saxe - 2014 Best Doctors in America® list
15. Paul Schneider - 2014 Best Doctors in America® list
16. Dinesh Vyas - 2014 Best Doctors in America® list
17. Andrew Zwyghuizen - 2014 Best Doctors in America® list
18. Rafael Ruggieri – Lansing Outstanding Resident Teaching Award – CHM
19. Darren Perttu – Flint Campus Resident Teaching Award
20. Andrew Cho – Flint Campus Resident Teaching Award
Challenges/opportunities for upcoming year:
1. Anticipated budget cuts
2. 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: SCORE
10:00am – 11:00am: Chief Lead Book Review
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:**
Weekly meetings with Nurses/staff

**Professionalism:**
Program retreat with Drs. Wadland & Molidor

**Systems-based Practices:**
Invited Speakers:
Dusty DeHaven, MPA
Barbara McLean, MN, RN, CCRN, CCNS, NP-BC, FCCM
Charles L. Bosk, Ph.D.
Program Name: Internal Medicine Residency
Program Director: Heather Laird-Fick, MD, MPH

Graduating residents and destinations:
1. Dareen Almanabri, MD. Rheumatology fellowship, George Washington University.
2. Osama Alsara, MD. Chief medical resident, Michigan State University.
3. Tyler An, DO. Hospitalist, Sparrow Hospital, Lansing for one year, then gastroenterology fellowship in Lansing.
4. Satish Chandolu, MD. Hospitalist, Sparrow Hospital, Lansing.
5. Anthia Dasari, MD. Hospitalist, Georgia.
7. Joonseok Kim, MD. Cardiology fellowship, University of Cincinnati, Ohio.
8. Mamata Ojha, MD. Michigan State University Dept of Medicine, Lansing.
10. Ashish Tiwari, MD. Gastroenterology fellowship, Boston University, Massachusetts.
11. Srinivasa Vasireddi, MD. Hospitalist, Sparrow Hospital, Lansing.
12. Shanti Virupannavar, DO. Rheumatology fellowship, University of Illinois-Chicago.
13. Mrinal Yadava, MD. Cardiology fellowship, University of Oregon.

Incoming residents and medical school attended:
1. Moayad Alabdulkarim, MBBS. King Saud University, Saudi Arabia. (PGY1 only, then will enter Physical Medicine and Rehabilitation program at MSU)
6. Atanas Iliev, DO. Lake Erie College of Medicine.
7. Amanjot Chahal, MBBS. Government Medical College, Patiala, India.
8. Sandra Mazzoni, DO. Michigan State University College of Osteopathic Medicine.
10. Turab Raza, MD. King Edward Medical College, Pakistan.
11. Anas Riehani, MD. Tishreen University, Syria.
12. Keren Shahar, MD. Ruth and Bruce Rappaport Faculty of Medicine, Technion
    Israel Institute of Technology, Israel.
13. Ranbir Singh, MD. Government Medical College Amritsar, India.
14. Olivia Wilcox, DO. AT Still University.

Faculty changes
1. Arashdeep Litt, MD joined key faculty, replacing Supratik Rayamajhi, MD.

Major accomplishments over previous year:
1. Outstanding graduate placement into competitive fellowships
2. Retention of graduates (80%) in Michigan who chose general medicine careers
3. Implementation of Complex Care Clinic and enhanced mental health care
curriculum as part of Dr Robert Smith’s HRSA grant. The Complex Care Clinic
allows specially trained faculty to directly observe residents during their clinical
evaluations of patients with mental health disorders and chronic pain. In addition,
responsible use of opioid and other controlled substances is emphasized.

Research publications/presentations (resident and faculty):
1. Dane Gruenebaum and colleagues received initial approval for their Sparrow
    Center for Innovation and Research Grant entitled "Text Messaging (SMS): An
    Added Intervention to Reduce AMI 30 Day Readmission Rates." (withdrawn
    after PI left institution)
2. Suwen Kumar's poster, "Cardiomyopathy With Multi-Organ Toxicity Due To
    1,1-Difluoroethane," was accepted for the American Thoracic Society's
    international meeting Spring 2014.
3. James Chang's poster, "Intractable Hypoxia Out Of Proportion To His
    Radiographs In Castrate-Resistant Prostate Adenocarcinoma," was accepted for
    the American Thoracic Society's international meeting this spring.
4. Dane Gruenebaum, Ahmad Alsarah, Osama Alsara and Heather Laird-Fick
    have had a case report, "Bleeding Complication of Triple Therapy of
    Rivaroxaban, Prasugrel, and Aspirin: Case Report and General Discussion,"
    accepted to Case Reports in Cardiology.
5. David Kim's poster "Recurrent Acute Coronary Syndrome During Exacerbations
    Of Immune Thrombocytopenic Purpura: The role of platelet microparticles" will
    be presented at the Society for General Internal Medicine national meeting.
6. David Kim and Julie Yam's poster, "Fatal Cerebral Air Embolism As A
    Complication Of Esophagogastroduodenoscopy," will be presented at the Society
    for General Internal Medicine national meeting.
7. David Kim's poster, "Primary Lung Adenocarcinoma Presenting With Miliary
    Lung Metastases," was accepted for presentation at the American Thoracic
    Society International meeting.
    Adenocarcinoma presenting as Miliary Lung Metastases " was one of the top 10
case vignettes submitted for the American College of Physician's national meeting, and will be presented as a podium talk.

9. **Metin Dursun's** poster, "An Atypical Presentation of Dress Syndrome in 22 years old Female," will be presented at the national American College of Physicians meeting.

10. Fourteen residents had posters at Mid Michigan Annual Research Day here in Lansing: **Julie Akright, Osama Alsara, Abraham Alsherbini, Tyler An, Jinsoo Chang, Dane Gruenebaum, Michael Kehdi, David Kim, Suwen Kumar, Amit Mehta, Sumugdha Rayamajhi, Divya Sharma, Richa Tikaria, Julie Yam.**

11. **Mrinal Yadava** had an oral presentation at Mid Michigan Annual Research Day.


15. **Shanti Virupannavar**, Anthony Brandau, Carla Guggenheim and **Heather Laird-Fick**. "Possible association of etanercept, venous thrombosis, and induction of antiphospholipid syndrome." Case Reports in Rheumatology. Accepted for publication.


33. **Justin Oneese**. Persistent abdominal pain in setting of pancreatitis, a case of acute portal vein thrombosis (PVT). Poster. Fall 2013 Michigan regional American College of Physicians scientific meeting.
34. **Srinivasa Vasireddi.** Culture negative endocarditis: delay in diagnosis. Fall 2013 Michigan regional American College of Physicians scientific meeting.


Honors (resident and faculty):
1. James Chang was selected to receive one of three Resident Teacher of the Year Awards from CHM-Lansing's graduating Class of 2014.
3. Sparrow Outstanding Senior: David Kim
4. Sparrow Outstanding Junior: Michael Kehdi
5. Bernard H. Smookler Award: Tyler An
6. David Greenbaum Emerging Leader Award: Ashish Tiwari
7. Rose Award: Supratik Rayamajhi
8. Outstanding Resident in Cardiology: Madalina Opreanu
9. Outstanding Resident in Endocrinology: Tyler An
10. Outstanding Resident in Hematology/Oncology: David Kim
11. Outstanding Resident in Infectious Diseases: Tyler An
12. Outstanding Resident in Research: Ashish Tiwari and Mrinal Yadava
13. Sparrow Nursing Resident of the Year: Ujjwal Kumar
14. MSU Outstanding Junior Resident: Michael Kehdi
15. MSU Outstanding Senior Resident: Tyler An
16. Excellence in Teaching (University Faculty): Supratik Rayamajhi
17. Excellence in Teaching (Community Faculty): Mark Ensberg and Larry Rawsthorne
18. Research Teacher of the Year: Heather Laird-Fick
19. Outstanding Support Staff: Emily Anderson and Katie Gibson-Stofflet
20. Outstanding Clinical Support Staff: Trinh Tran
21. Outstanding Fellow in Teaching: Fadi Abu Yasin
22. Inpatient Nurse of the Year: Cori Wise
23. American College of Physicians Governors Award for Michigan: Heather Laird-Fick
24. College of Human Medicine Outstanding Clinician Award: Heather Laird-Fick

Challenges/opportunities for upcoming year:
1. The pulmonary group has stated they will not offer a standing pulmonary rotation due to changes in critical care coverage by residents. (We have established geographic caps which exclude the Neuro ICU as of 7/1/14.) In discussion with Drs. Glynn and Schroeder at Sparrow Hospital, they are supportive of sending current residents in need of a rotation out of system. We will need to establish a regularly offered rotation for the future, however, as this is a mandatory subspecialty offering under ACGME accreditation requirements.
2. With changes in the critical care coverage system, we have an opportunity to increase the educational quality and content of the experience, including building inter-professional teamwork experiences, quality improvement opportunities, etc.

3. We were able to obtain a wonderful work and teaching space for the residents for the final third of the academic year ‘13-’14. However, this will be eliminated January 1, 2015 as plans to renovate the first floor for a new cafeteria proceed. We have not yet identified a work space for the residents or for morning report and hand off rounds. Sparrow GME administration is aware and has placed requests on our behalf.

4. We have had two residents request transfers for the AY14-15, both for personal reasons. (Sumugdha Rayamajhi, MD will complete her PGY3 year at University of Colorado, where her husband is on faculty, and Ujjwal Kumar, MD is transferring to University of Alabama for PGY2 and 3.) We have a transfer coming in for his PGY2 and 3 years (Todd Wisser, DO), but will not be replacing Dr. Rayamajhi. This will impact our scheduling capabilities.

5. We have changed our inpatient general medicine experiences for AY14-15 to decrease the inpatient requirement by one block for our PGY1s and provide a better learning and patient care environment for rotating PGY1s. In the past we had four MSU teams with one senior and two juniors each, and a senior assigned to Hospitalist each block. Now we will have three MSU teams with a senior, a categorical PGY1, and either a second categorical or two rotating PGY1 residents. The Hospitalist rotation has been eliminated, and instead the fourth MSU team will have two senior residents who have greater responsibility and autonomy – a “practice ready” type experience. We will be monitoring the educational outcomes and satisfaction with this restructuring.

6. We will have two significant changes in our faculty/staff roster. Rajil Karnani will step down as associate program director in the fall, to be replaced by Nazia Khan, a new hire with expertise in hospital medicine and clinical research. Our program administrator, Emily Anderson, has also retired and will be replaced by Elese Bates, with prior experience as a program coordinator in med/peds and osteopathic internal medicine. These new additions will bring fresh insights into ways to continue to improve our program.

7. As of September 8, 2014, we do not have a contract or budget for the full academic year. While I do not anticipate major decreases in our funding levels, this remains of concern.

8. Two core faculty members (Laura Freilich and Heather Laird-Fick) have completed advanced training in interpersonal and communication skills through the American Academy on Communication in Healthcare, an MSU HRSA grant, and a Sparrow/ Mayo faculty development program. Two residents (Dane Gruenebaum and David Kim) and another faculty member (Erin Sarzynski) have completed the latter as well. We are looking at ways to coach faculty and residents on patient centered communication, particularly in the hospital. We are still completing our action plan for this.
Briefly indicate at least one way your program addresses each of the ACGME Core Competencies:

1. **Patient Care**: Direct observation of clinical skills using Mini-CEX forms.

2. **Medical Knowledge**: In Training Exam

3. **Practice-based Learning and Improvement**: Morbidity and Mortality reflective exercises, participation in presentations

4. **Interpersonal and Communications Skills**: Direct observation of clinical skills using Mini-CEX forms and patient satisfaction surveys.

5. **Professionalism**: Patient satisfaction surveys

6. **Systems-based Practice**: Clinic attending and clinic staff evaluations
Program Name: Interventional Cardiology Fellowship
Program Director: Tim A. Fischell, M.D.

Graduating residents and destinations:
Poorna R. Karuparthi, MD
Jefferson City Medical Group
1241 W Stadium Blvd L100
Jefferson City, MO 65109

Nitin Mahajan
El Paso Cardiology Associates, P.A.
4301 N. Mesa Suite 100
El Paso, Texas 79902

Babatunde O. Komolafe
South Eastern Cardiology Consultants
2055 East South Blvd, Suite 403
Montgomery, AL 36116

Incoming residents and medical school attended:
Pavan Kotaru, MD
Michigan State University, Lansing, MI

Jag Kalavakunta, MD
Michigan State University, Lansing, MI

Marwan Dib, MD
Michigan State University, Lansing, MI

Faculty changes
Dr. Moualla is voluntarily resigning from Borgess Heart Center as of January 9, 2014.

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. We have had one change to our faculty, with the voluntary resignation of Dr. Soundos Moualla effective January 9, 2014. There have been no other 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; 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, 2014, and look forward to our ongoing affiliation with Michigan State University.

**Research publications/presentations (resident and faculty):**

**Tim A. Fischell, MD**

*Invited lectures:*
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.


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

Publications:


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

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

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

~ 69 ~
5. Aggarwal S, Kalavakunta J, Gupta V. Isolated right ventricular non-compaction with ST elevation in chest leads. ACP Michigan Meeting, Troy, 2013
8. 40. Aggarwal S, Kalavakunta JK, Gupta V. Water Is Good For Health? Not In All Patients: A single center quality improvement prospective study to identify impact of intensive patient education. Accepted for ACP national chapter at Orlando April 2014

Publications:

Published abstracts:
1. Aggarwal S, Papani R, Gupta V. Predictive role of thyroid in Takotsubo cardiomyopathy: A single center retrospective study American Heart Association QCOR
2. Aggarwal S, Gupta V. 30-day Readmission Rates For Patients Discharged After Insertion, Revision, Replacement And Removal Of Cardiac Pacemaker Or Cardioverter/defibrillator: Analysis Of Nationwide Inpatient Sample Data American Heart Association QCOR 2014
3. Aggarwal S, Gupta V. Causes Of Readmission In Congestive Heart Failure Patients: Analysis Of 2,536,439 discharges American Heart Association QCOR 2014
Honors (resident and faculty):
Tim A. Fischell, MD
2013  Best Doctor in America Award
2014  Best Doctors in America Award
2014  America’s Top Cardiologists-Consumer’s Research Council of America
2014  Fischell building of medical biotechnology- Board of directors
2014  Borgess Medical Center- Star Performer

Vishal Gupta, MD
2013  Award for Borgess Caring Hearts & Hands
2014  Borgess Medical Center- Star Performer

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:

1. **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.
2. **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 to their 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.

3. **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.

4. **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.

5. **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.

6. **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: 2013-2014

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

Graduating fellow and destination:  
1. Chinyere (Chichi) Oarhe, M.D.  
   Methodist Women’s Hospital, Omaha, Nebraska

Incoming fellows and medical school attended:  
1. Sanket Jani, M.D.  
   SMT. NHL Medical School, India

Faculty changes  
None

Major accomplishments over previous year:  
1. Division has leadership role in Michigan-VON Collaborative QI Project (Dr. Karna)  
2. Tarek Mohamed, M.D. (3rd year fellow) won the prestigious Marshall Klaus Research Award (PAS)  
3. Dr. Mohamed also won a PAS travel award to present his findings at the annual PAS meeting.  
4. Dr. Awonuga was named in charge of Pediatric Grand Rounds at Sparrow Hospital  
5. Dr. Omar was elected to the Alpha Omega Alpha Honor Medical Society at MSU, November 2013  
6. Dr. Gewolb was named an Associate Editor for, Frontiers in Neonatology, 2013-  
7. Dr. Gewolb and Mr, Vice received a U.S. Patent (#8,568,336) (10/29/13) for their invention- “Non-Invasive Diagnosis of Gastroesophageal Reflux Using Very Low-Frequency Accelerometric Detection”  
8. Gewolb & Vice also received patents from the United Kingdom and from Canada for their device.

Research publications/presentations (fellow and faculty):  

Abstracts/Scientific Presentations:  


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. 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. 2014 Pediatric Academic Societies meeting.


Publications:


Bhattarai Y, Fernandes R, Kadrofske MM, Lockwood LR, Galligan JJ, Xu H. Western blot analysis of BK channel β1-subunit expression should be interpreted cautiously when using commercially available antibodies. Physiol Rep 2014;2(10);e12189, doi:10.14814/phy2.12189.


Comments:


Invited Presentations:


Awonuga MT, Congenital Adrenal Hyperplasia: Pediatric Grand Rounds, Lagos State University Teaching Hospital, Ikeja, Lagos, Nigeria – 05/31/13
Gewolb I.H.: 3rd Annual NOMAS Meeting- Featured Speaker, Las Vegas, NV, October 2013

“Respiration: The necessary component for successful infant feeding”
“Methods of diagnosing gastroesophageal reflux in infants: A new accelerometric technique”


“Respiration: The necessary component for successful infant feeding”
“Methods of diagnosing gastroesophageal reflux in infants: A new accelerometric technique”

Kadrofske, M: Hillsdale College Department of Chemistry Seminar, Hillsdale, MI.

Karna, P: Smija Pmani, Megha Patel, Padmani Karna; Factor influencing discharge of VLBW Infants from NICU. Pediatric Academic Society meeting (PAS). May 2013.

Karna P. for MI VON Collaborative; MI State Quality Collaborative - Voluntary Initiative. Annual TIPQC Meeting in Franklin, Tennessee. March 2012


Grants:

Gewolb I: Principal Investigator
The Michigan Initiative for Innovation and Entrepreneurship (MIIE) Technology Commercialization Fund
“Enhancement and Commercialization of an Innovative Non-Invasive Methodology for Diagnosing Gastroesophageal Reflux”
$60,954 (1/1/2014-12/31/2014)

Co-Investigator (P.Panigrahi, P.I.)
NIH- 4% salary support
“Use of probiotics for the prevention of sepsis in Indian children in a rural setting”
(3/1/07-2/28/14)

Kadrofske, M.


Karna P:

2014 - MI VON Quality Collaborative (SOMN), Michigan Department of Community Health (Medicaid / MDCH) For NAS care at MI NICUs - $90,000
2012 – 2014 MI VON Quality Collaborative (SOMN). MI Department of Community Health (Kellogg Foundation)- $80,000
2010 – Present – MDCH for MI VON Quality Collaborative. $ 10,000 / year
2011 – Present – MDCH for MI VON Quality Collaborative - 25% salary support.

Honors (fellows and faculty):
1. Tarek Mohamed, M.D. (3rd year fellow) won the prestigious Marshall Klaus Research Award (PAS)
2. Dr. Mohamed also won a PAS travel award to present his findings at the annual PAS meeting.
3. Dr. Awonuga was named in charge of Pediatric Grand Rounds at Sparrow Hospital
4. Dr. Gewolb was named to the Editorial Board of Frontiers in Pediatrics, 2013
5. Dr. Karna is Chair of the Michigan-VON Quality Collaborative Initiative since 2011 Division has leadership role in Michigan-VON Collaborative QI Project (Dr. Karna)
6. Dr. Omar was elected to the Alpha Omega Alpha Honor Medical Society at MSU, November 2013
7. Dr. Gewolb was named an Associate Editor for, Frontiers in Neonatology, 2013-
8. Dr. Gewolb and Mr, Vice received a U.S. Patent (#8,568,336) (10/29/13) for their invention- “Non-Invasive Diagnosis of Gastroesophageal Reflux Using Very Low-Frequency Accelerometric Detection.” Gewolb & Vice also received patents from the United Kingdom and from Canada for their device.

Challenges/opportunities for upcoming year:
1. Continued need for more for Pediatric subspecialists at Sparrow/MSU
2. Continued need for Pediatric Radiology, Pathology, Surgery at Sparrow/MSU
3. Need to begin planning for renovation/expansion of NICU
4. Need to expand fellowship to 5- approval obtained; financial support in limbo.
5. Need for appropriate complement of NNP/PA’s in NICU

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

**Patient Care:** Manages 35 bed Neonatal ICU with 600 admissions/yr. Runs outpatient Developmental Assessment Clinic with 250 visits/yr.

**Medical Knowledge:** Educational experiences includes Research Speakers, Journal Clubs, M & M/Case Management Conferences, Statistics Course, Physiology Course, etc. in rotation.

**Practice-based Learning and Improvement:** Ongoing QI projects as part of Michigan-VON initiative; introduction by library staff to web based learning; daily use of electronic medical record (Epic)

**Interpersonal and Communications Skills:** Supervision during Prenatal and Neonatal consultations with families; experience as “fellow-attending” during final year.

**Professionalism:** IRB offerings; 360 degree evaluations by faculty, nursing staff.

**Systems-based Practices:** Joint conferences with Ob-Gyn to review M & M cases, ad hoc involvement in multicenter trials, periodic attendance at Root Cause Analyses
Program Name: Pediatric Residency  
Program Director: Ashweena Gonuguntla, MD 

Graduating residents and destinations: 
1. Melissa Caraballo – Jackson Hospital, FL  
2. Tracy Chapman – Pediatric Hospitalist, FL  
3. Saif Fatteh – Private Practice, MI  
4. Krishnamraju Kosuru – Gastro Fellowship, NY  
5. Monalisa Patel – Neonatology Fellowship, CA  
6. Sarah Servinsky – Private Practice, MI  
7. Ryuma Tanaka – Hem/Onc Fellowship, TX  
8. Farouq Thabet – Pediatric Neurologist, IO

Incoming residents and medical school attended: 
1. Matthew Carter, DO – Rocky Vista Univ. College of Osteopathic Medicine, CO  
2. Julie Creighton, DO – Lake Erie College of Osteopathic Medicine, PA  
3. Ala Elayyan – Jordan University of Science and Technology, Jordan  
4. Mohamed Farhat – American University of Beirut, Lebanon  
5. Ira Holla – Maulana Azad Medical College, Uni. Of Delhi, India  
6. Stephaie Jarnagin, DO – Kirksville College of Osteopathic Medicine, MO  
7. Rebecca Justin, DO – Lincoln Memorial University, COM, TN  
8. Zil-E-Huma Sheikh – Akad Medical, Poland
### Research publications/presentations (Faculty):

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## Research publications/presentations (Residents):

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Program Name: Physical Medicine and Rehabilitation
Program Director: Michael Andary, MD

Graduating residents and destinations:
1. Melissa Andric, DO  Private Practice Oakland Physical Medicine Allen Park, MI
2. Rani Gebara, DO  MSU Dept of PM&R
3. Mathew Saffarian, DO  Electrodiagnostic and Interventional Pain Medicine 2014-2015 with MSU Dept. of PM&R non accredited Fellowship
   MSU Sports Medicine Accredited Fellowship 2015-2016

Incoming residents and medical school attended:
1. Andrew Cooper, DO
2. Meagan Smith, DO MSU-COM
3. Michael Verde, MD  St. Georges  Grenada

Faculty changes
1. Rani Gebara, DO has joined the MSU Dept. of PM&R

Major accomplishments over previous year:
1. Acceptance of a 10th resident to start as a PG2 in 2015.
2. Completed our first Clinical Competency Committee meeting.
3. Completed our first Program Evaluation Committee meeting.
4. Implemented our monthly video residency meeting.

Research publications/presentations (resident and faculty):
Honors (resident and faculty):
1. Larry Prokop named as Distinguished Fellow Award from the American Osteopathic Congress of Physical Medicine and Rehabilitation.

Challenges/opportunities for upcoming year:
1. Complete planning to increase the number of rehab beds at Sparrow to 40.
2. Obtain funding for an 11 or 12 residency slot.

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, 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.
Program Name: MSU Surgical Critical Care Fellowship
Program Director: Benjamin Mosher, MD

Graduating residents and destinations:
1. Dave Giammar, MD – Columbus, Ohio

Incoming residents and medical school attended:
1. Ronald Hyde, DO – MSU COM

Faculty changes
1. Chet Morrison, MD left 11/2013, program director
2. Lynn Munoz, MD added 8/2014, new faculty member

Major accomplishments over previous year:
1. Chief of Staff elect – John P. Kepros

Research publications/presentations (resident and faculty):
1. Presentations:
   b. Patterns of Antibiotic Use in Open Fractures. Mersadies Martin presented at the 9th Annual Academic Surgical Congress. February 6, 2014
2. Abstracts:
3. Peer Review Journal articles:

**Honors (resident and faculty):**
1. Sparrow Hall of Fame Physician – Benjamin D. Mosher, MD

**Challenges/opportunities for upcoming year:**
1. Adding another new faculty member 12/2014
2. Interact with the new Pulmonary Critical Care Fellowship fellow
3. ABS SCC certificate offered to emergency medicine trained physicians

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

**Patient Care:**
Review of notes/plans when residents not present, graduated responsibility for directing rounds

**Medical Knowledge:**
In service training exam provided by SCCM – The Multidisciplinary Critical Care Knowledge Assessment Program (MCCKAP)

**Practice-based Learning and Improvement:**
Member of the multidisciplinary trauma QI committee and program for Sparrow trauma services, also attends medical staff critical care committee meetings

**Interpersonal and Communications Skills:**
Evaluations by staff, nursing staff

**Professionalism:**
Biannual evaluations including off-service rotations with other hospital services

**Systems-based Practices:**
Discuss interactions/coordination of care with other services daily rounds
Program Name: Michigan Vascular Center Vascular Fellowship
Program Director: Carlo A. Dall’Olmo, M.D.

Graduating residents and destinations:
None (New Program 2013)

Incoming residents and medical school attended:
1. Bara’a Zuhaili, M.D. (Damascus Univ. School of Medicine)

Faculty changes
1. Russell W. Becker, D.O. (Moved to Florida)

Major accomplishments over previous year:
1. The McLaren Foundation purchased a state-of-the-art Endovascular Simulator, the Mentice VIST® -C for the Vascular Fellowship program. First year Fellows completed a 16 week Endovascular Simulator Training Course conducted by Mark Mattos, M.D., Clinical Professor of Surgery and Education Planner for the Wayne State University Department of Surgery.

Research publications/presentations (resident and faculty):

Honors (resident and faculty):
N/A

Challenges/opportunities for upcoming year:
1. Recruit 2 additional Fellows to fill our open positions for 2015.
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.
Fellows spend one half day per week at the Michigan Vascular Center out-patient clinic seeing both new and established patients with a faculty member.

**Medical Knowledge:**
Thursday morning Diagnostic Review & Case Management Conference. Faculty and fellows discuss patient plans for all patient interventions for the upcoming week.
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.
Fellows take turns presenting patient cases at the weekly Diagnostic Review & Case Management Conference.
Assessments are made by faculty, evaluation of General Surgery Residents, staff as well as patient surveys.

**Professionalism:**
Program Director advises at quarterly Fellow meetings.
Evaluated quarterly by faculty on Rotation evaluations.

**Systems-based Practices:**
VSITE Conference (Monthly) prepares Fellows to take the Board Exam. Question discussion incorporates education about the cost of procedures in making choices.