



FORWARD. FOR YOU.

Graduate Medical Education Annual Report

2018-2019



Message from the Chair

In recognition of the passion, dedication and commitment on the part of all of our trainees, program directors, program coordinators, faculty, staff and hospital partners, I am proud to present the 2018-2019 GME annual report. Our programs continue to inspire us as they demonstrate excellence in education, scholarship and patient care thus providing us the foundation in fulfilling our mission to assist the people of central and southern Illinois in meeting their health care needs through education, patient care, research and service to the community.

We spent much of the year preparing for the implementation of new ACGME Common Program Requirements (CPRs), which became effective July 2019. The 2019 requirements set a higher standard for our community faculty in the areas of educational professional development, non-clinical teaching and resident assessment. In recognition of the interplay between Clinical Learning Environment Review (CLER) objectives and evidence based care, the new requirements also expanded the definition of scholarship to include participation in quality and patient safety initiatives.

Our third CLER visit occurred. We received ACGME approval for the establishment of three new Fellowships. The Hematology / Medical Oncology and Cardiovascular Disease programs matriculated their first fellows in July 2019. Pulmonary Disease and Critical Care Medicine will begin July 2020. We developed a more robust metric for monitoring resident survey responses and GMEC follow up, and implemented a process for programs to report their graduates' practice data, which allows us to closely assess how well we are serving our mission. We continue to maintain strong relationships with our hospital partners and in July, welcomed HSHS St. Mary's Hospital in Decatur as the inpatient training site for our Child Psychiatry Fellowship.

I hope you find this information useful.



Karen Broquet, MD, MHPE
Associate Dean for Graduate Medical Education
Chair, GMEC



Patient Safety & Health Care Quality

- 77 Residents & Fellows completed LEAN/Six Sigma Training
- 10 Residents & Fellows completed TeamSTEPPS Training
- 75 Residents & Fellows participated in Mock Root Cause Analysis (RCA) Sessions held in October 2018 and March 2019.
- 10 Hospital RCAs with 17 resident participants

Graduate Medical Education Committee (GMEC)

The GMEC is accountable for advising and monitoring all aspects of residency education in a manner to meet the needs of the residents, programs and hospitals as well as fully comply with the regulations and directions of the Accreditation Council for Graduate Medical Education (ACGME) and the Review and Recognition Committees. A list of GMEC members for the 2018-2019 academic year is included below.

CHAIR

Karen Broquet, MD

FACULTY

Sandra Ettema, MD
Harald Lausen, DO, AOA Director
David Jeong, MD
Paula Mackrides, DO, AOA Director
Laura Shea, MD

HOSPITAL ADMINISTRATORS

Rajesh Govindaiah, MD,
CMO Memorial
Shanna Hull, HSHS St. John's
Gurpreet Mander, MD,
CMO HSHS St. John's

LEGAL COUNSEL

Jennifer Graham, JD

PROGRAM COORDINATOR

Ruth Stark

PROGRAM DIRECTORS

Gordon Allan, MD
Devin Amin, MD
John Becker, MD
Sacharitha Bowers, MD
Careyana Brenham, MD
Dana Crosby, MD
William Dixon, MD
Douglas Hood, MD
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Roger Kim, MD
Ranjiv Matthews, MD
Najib Murr, MD
Erica Nelson, MD
Janet Patterson, MD
Quincy Scott, DO
Santosh Shrestha, MD

Nicole Sommer, MD
Vidya Sundareshan, MD (Fellowship)
Andrew Varney, MD
James Waymack, MD
Vincent Zata, MD

RESIDENTS

Nana Cudjoe, MD
Tyler Fulks, MD
Katherine Hyon, MD
Breck Jones, MD
Asiya Mohammed, MD
Daniel Ryan, MD
Nader Tehrani, MD

Review of Institutional Performance 2018-2019

REVIEW OF PROGRAM PERFORMANCE

ACGME Resident Surveys
ACGME Faculty Surveys
ACGME Well-Being Surveys
Annual Accreditation Letters
and Citations
Annual Program Evaluations
Clinical & Educational Work Hour
Compliance
Monitoring of Transitions of Care
Scholarly Activity and Case Numbers
Self-Studies
SIU SOM End of Year Evaluations

INTERNAL REVIEWS

Adult Reconstructive Surgery
Endocrinology
Infectious Disease

SPECIAL REVIEWS

Dermatology

MOCK SITE VISIT

Cardiovascular Disease

SELF-STUDIES

Carbondale Family & Community
Medicine
Carbondale Sports Medicine
Colon & Rectal Surgery
Decatur Family & Community Medicine
Springfield Family & Community
Medicine
Otolaryngology

GMEC SUB-COMMITTEES

Annual Program Evaluation
Well-Being

REVISED POLICIES AND PROCEDURES

Academic Deficiency Policy
Other Learners or Care Providers Policy
International Travel for Away
Rotations Policy
GMEC Program Oversight and
Review Policy
Resident File Guidelines
Program Letter of Agreement Template
USMLE/COMLEX Exam Policy
Supervision Policy
Institutional Policy for Clinical and
Educational Work Hours
Resident and Faculty Well-Being

LEADERSHIP DEVELOPMENT

5 new Program Directors
6 new Program Coordinators

GMEC Annual Institutional Goals

Goal 1

Promote an Outstanding Learning and Work Climate (Carry-over from 2017-2018)

We have been making slow and steady progress toward this goal, which has been an institutional priority for several years. It may seem surprising that it has taken years to demonstrate measurable improvement here, given SIU's historical commitment to learners and the high level of collegiality within our medical community. However, learning or work climate represents a final common pathway of a number of parameters, individual factors, economic and human resources, externally imposed change, and general stress and wellness levels. Initial interventions included faculty development on the dimensions of learning climate, delivery of effective feedback, and clinical teaching and supervision skills.

The GMEC and individual programs have been partnering with the SIU Center for Human and Organizational Potential (cHOP) and partner hospitals to increase the level of wellness resources and activities and, perhaps most importantly, systems and processes that promote wellness and a positive work environment. The most obvious of these are protocols for when learners are overwhelmed or fatigued. Because of the inverse relationship between faculty and resident workload and learner satisfaction, we have been working with SIU Medicine leaders and partner hospitals to ensure that all of our programs have adequate faculty levels and resident complements. We have used a number of outcomes to measure progress towards this goal. Frequent discussions with resident leaders and residents in individual programs has provided valuable feedback and direction for our efforts. We have utilized learning climate-related items on the ACGME Resident Survey as one of our primary outcome measures. This was chosen for two reasons. First, the Resident Survey is weighted very heavily by the ACGME in their annual accreditation decisions. Second, it sets a high bar for measuring learner satisfaction. Any response below 4 on a 5 point scale for learning climate items is considered to be "non-compliant", or cause for concern by the ACGME. The Resident Survey has its limitations, as it does not provide any mechanism for comments. We replicate important learning climate related items on a SIU GMEC End of Year Evaluation. Our SIU residents have been incredibly generous in sharing their comments and feedback to guide our efforts. Input on learning climate and a variety of other training parameters from these two instruments are included in this report. In a

separate survey of Springfield residents conducted in December 2018, 94% of respondents rated the learning climate in their program as good or excellent!

Goal 2

Establish a process and practice for each clinical site to provide summary information of their institution's patient safety reports to residents, faculty and other clinical staff. Establish a process for GMEC to verify that the above is occurring.

This goal was originally set to meet a specific ACGME requirement. Each quarter, the GMEC reviews a patient safety report from Memorial Medical Center and HSHS Saint John's Hospital. This overview includes the number of attending and resident reports and general categories of reports. We are on track, over the next several months, to include reporting from our hospitals outside of Springfield and from the SIU Medicine Clinics. The GMEC is exploring ways to refine these reports and use them to reinforce the link between individual event reporting and improvement in patient care.

Goal 3

How to Verify Resident Competency to Perform Various Patient Procedures with Indirect Supervision

This goal was set after receiving the feedback from multiple CLER visits that nursing staff on our inpatient units have no way of verifying the procedural competency of any individual resident. We currently meet Joint Commission and ACGME standards for this. According to the 2018 ACGME CLER National Report of Findings, very few institutions nationally have this figured out. However, we felt we had some opportunities to improve our process here. Our first step was to establish the scope of the problem. We queried our Springfield hospitals and have identified a number of higher risk settings and procedures (ICUs, bedside lumbar punctures and catheter placements, inpatient to outpatient transitions, transitions from the emergency department to the floors). We are starting with programs that have residents involved in those clinical settings and procedures. A GMEC work group has been tasked with this effort. We anticipate that this will be a multi-year effort and goal.

Goal 4

Improve standard setting, oversight and supervision/monitoring of high risk transitions of care (TOC)

SIU GME programs have a well-established set of content and standards for transitions of care. This goal was established to focus on settings that are at higher risk for loss of the information during transitions. [The GMEC Transitions of Care \(Handoff\) Policy](#) was rewritten. The new policy more clearly delineates responsibilities regarding transitions of care and can also be used as an

educational tool. Although this is an institutional goal, because transitions are so specific to their setting, we identified no feasible interventions that would be transferable across services or hospitals. The Psychiatry and Orthopaedic Surgery programs have been involved in hospital-based quality improvement projects to improve an identified TOC gap. After reviewing the outcomes of these projects, we felt that intervention at the program level would be appropriate. Each program has been charged with identifying their highest risk TOC, identifying area(s) for improvement and implementing changes via one or more PDSA cycles. Programs have been given until September 2020 to report their findings, interventions and outcomes to GMEC. We anticipate that this will be a multiyear effort and goal.

Learning Climate Comparison

ACGME program data reported in % compliant responses	SIU End of Year Survey (Completed May-June)					ACGME Resident Survey (Completed Jan-March)									
	Ability to express concerns without fear					Faculty and staff interested in education			Satisfied with process to deal with problems and concerns			Residents can raise concerns without fear			
	% Poor/Fair	% Good/Excellent	% Poor/Fair	% Good/Excellent	% in G/E	NATIONAL AVERAGE		Δ	NATIONAL AVERAGE		Δ	NATIONAL AVERAGE		Δ	
						85%	86%		81%	81%		82%	82%		
PROGRAM*	AY 18		AY 19			AY 18	AY 19	Δ	AY 18	AY 19	Δ	AY 18	AY 19	Δ	
Child Psych**	50	50	100	0	↓	-	75	-	-	75	-	-	50	-	
Dermatology	40	60	20	80	↑	83	83	=	17	83	↑	33	83	↑	
Emergency Medicine	27	73	0	100	↑	94	100	↑	89	100	↑	89	100	↑	
Endocrinology	33	67	0	100	↑	100	100	=	75	100	↑	75	100	↑	
FCM - Carbondale	20	80	20	80	=	93	88	↓	93	71	↓	71	76	↑	
FCM - Decatur	50	50	20	80	↑	100	100	=	87	73	↓	87	80	↓	
FCM - Quincy	29	71	12	88	↑	94	100	↑	53	81	↑	47	75	↑	
FCM - Springfield	11	89	18	82	↓	93	93	=	90	100	↑	76	93	↑	
Internal Medicine	29	68	18	82	↑	61	76	↑	64	79	↑	78	83	↑	
Med/Psych	12	88	33	67	↓	88	75	↓	75	88	↑	88	88	=	
Neurology	100	0	0	100	↑	67	100	↑	83	100	↑	58	100	↑	
Neurosurgery	67	33	0	100	↑	50	60	↑	50	80	↑	50	80	↑	
OB/GYN	14	86	20	80	↓	100	81	↓	100	81	↓	93	88	↓	
Orthopaedics	46	54	37	63	↑	88	93	↑	75	73	↓	69	73	↑	
Otolaryngology	22	78	43	57	↓	80	100	↑	60	80	↑	90	80	↓	
Pediatrics	7	93	0	100	↑	86	95	↑	76	86	↑	86	95	↑	
Plastic Surgery	25	75	0	100	↑	100	100	=	100	100	=	100	100	=	
Psychiatry	36	64	37	63	↓	87	94	↑	80	75	↓	67	88	↑	
Pulmonary	0	100	0	100	=	100	100	=	100	80	↓	100	80	↓	
Radiology	17	83	50	50	↓	100	73	↓	58	45	↓	58	73	↑	
Surgery	0	100	20	80	↓	100	100	=	84	88	↑	95	94	↓	
Urology	0	100	0	100	=	83	100	↑	100	100	=	100	100	=	
Vascular Surgery	0	100	0	100	=	100	100	=	100	100	=	100	100	=	
All Programs/Institution	23	77	18	82	↑	88	91	↑	79	84	↑	78	86	↑	

* No report for Adult Recon, Cardiovascular Disease, Colon & Rectal Surgery, Hand Surgery, Hem/Onc, Infectious Diseases, Sports Medicine (2)

**No ACGME Survey report for Child Psych in AY18

ACGME KEY Falls 5% or more below national average of % compliant responses

Academic Programs & Accreditation

Academic Program Overview		
	Springfield	Affiliates
# Residents & Fellows	283	52
# Accredited Residency Programs	17	3
# Accredited Fellowship Programs	9	2
# Non-Accredited Fellowships	1	N/A

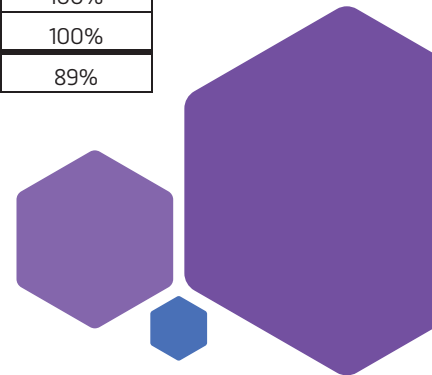
Program Accreditation Status			
PROGRAM	Accreditation Status	First Self-Study Due Date*	Number of Positions
Dermatology	Full	6/2023	12
Emergency Medicine	Full	9/2022	24
FCM - Carbondale	Full	6/2018*	18
FCM - Decatur	Full	10/2018*	15
FCM - Quincy	Full	8/2020	18
FCM - Springfield	Full	10/2018*	30
Internal Medicine	Full	10/2023	42
Med/Psych	N/A	N/A	10
Neurological Surgery	Full without Outcomes	1/2025	7
Neurology	Continued with Warning	11/2020	12
OB/GYN	Full	6/2022	16
Orthopaedics	Full	1/2022	15
Otolaryngology	Full	2/2019*	10
Pediatrics	Full	4/2022	24
Plastic Surgery	Full	5/2020	12
Psychiatry	Full	4/2023	24
Radiology	Full	11/2022	15
Surgery	Full	2/2024	20
Urology	Full	6/2023	10
Vascular Surgery	Full	2/2024	5
Fellowships			
Adult Reconstructive Surgery	Full	1/2022	1
Carbondale Sports Medicine	Full	6/2018*	1
Cardiovascular Disease	Initial	TBD	9
Child Psychiatry	Full	4/2023	4
Colon & Rectal Surgery	Continued with Warning	3/2019*	1
Endocrinology	Full	10/2023	4
Hand Surgery	Full	5/2020	1
Hematology & Medical Oncology	Initial	TBD	6
Infectious Diseases	Full	10/2023	2
Pulmonary Medicine	Full	10/2023	6
Quincy Sports Medicine	Full	8/2020	1
Other			
Institution	Full	10/2026	375

*Self-Study Completed

Resident Satisfaction with Training

Resident Satisfaction with Training							
PROGRAMS*	SIU End of Year Evaluation				ACGME Resident Survey		
	Your overall satisfaction with the educational environment of your program		I would recommend my training program to a friend		Overall evaluation of program		
	Number of responses				Percentage of responses		
	Poor/Fair	Good/Excellent	Strongly Disagree / Disagree	Agree / Strongly Agree	Very Negative / Negative	Neutral	Positive / Very Positive
	1-2	3-4	1-2	3-4			
Child Psych	0	1	0	1	0%	25%	75%
Dermatology	0	5	0	5	0%	17%	83%
Emergency Medicine	1	11	0	11	0%	0%	100%
Endocrinology	0	2	0	2	0%	0%	100%
FCM - Carbondale	0	5	0	5	12%	12%	76%
FCM - Decatur	0	5	0	5	0%	7%	94%
FCM - Quincy	2	6	0	8	6%	0%	94%
FCM - Springfield	2	9	0	11	0%	7%	93%
Internal Medicine	4	14	0	17	0%	17%	84%
Med/Psych	1	2	0	3	13%	0%	88%
Neurological Surgery	0	2	0	2	0%	20%	80%
Neurology	0	6	0	6	0%	0%	100%
OB/GYN	0	5	1	4	0%	13%	87%
Orthopaedics	1	7	1	7	0%	20%	80%
Otolaryngology	0	7	1	6	0%	20%	80%
Pediatrics	0	4	0	4	5%	0%	95%
Plastic Surgery	0	4	0	4	0%	0%	100%
Psychiatry	2	6	0	8	0%	6%	94%
Pulmonary	0	2	0	2	0%	20%	80%
Radiology	1	5	3	3	9%	18%	72%
Surgery	0	5	0	5	0%	0%	100%
Urology	0	7	0	7	0%	0%	100%
Vascular	0	3	0	3	0%	0%	100%
All Programs/Institution	14	123	6	129	2%	9%	89%

*No report for Adult Recon, Cardiovascular Disease, Colon & Rectal Surgery, Hand Surgery, Hem/Onc, Infectious Diseases, Sports Medicine (2)



Board Exam Performance

Beginning July 2019, the ACGME has significantly revised program requirements for board pass rates. Previously, each specialty review committee set a separate standard for the percentage of graduates who had to both take and pass the certifying exam. The July 2019 requirements will contain a common standard for all specialties:

- For specialties in which the ABMS member board and/or AOA certifying board offer(s) an annual written exam, in the preceding three years, the program's aggregate pass rate of those taking the examination for the first time must be higher than the bottom fifth percentile of programs in that specialty. (6 year aggregate for specialties with a biannual exam).
- Any program whose graduates have achieved an 80 percent pass rate will have met this requirement, no matter the percentile rank of the program for pass rate in that specialty.

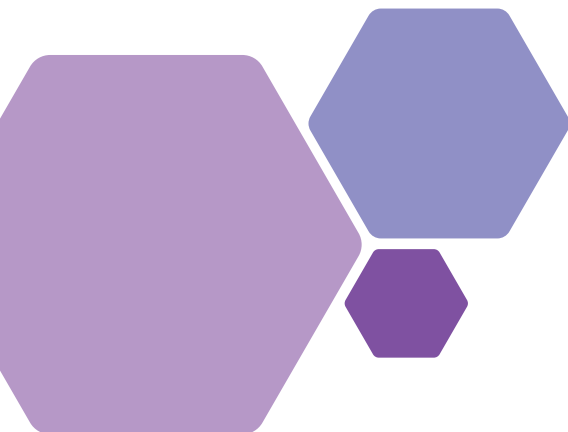
In addition to first-time pass rates, the new requirements also recognize that ultimate board certification is a valuable parameter of program quality. Because graduates are eligible for up to seven years from residency graduation for initial certification, the ACGME will eventually calculate a rolling three-year average of the ultimate board certification rate at seven years post-graduation, and monitor it. They have not, as yet, established a minimum standard for ultimate certification. For now:

- Programs must report board certification status annually for the cohort of board-eligible residents that graduated seven years earlier.

We do not have access to our programs' percentile rankings in their specialty. The table below contains the ultimate certification rate for 2011-2012 graduates.

PROGRAM	Ultimate Board Certification Status for 2011-2012 Graduates
Dermatology	100%
Emergency Medicine	N/A
FCM - Carbondale	100%
FCM - Decatur	100%
FCM - Quincy	100%
FCM - Springfield	91%
Internal Medicine	93%
Med/Psych	100%
Neurological Surgery	N/A
Neurology	100%
OB/GYN	100%
Orthopaedic Surgery	100%
Otolaryngology	100%
Pediatrics	100%
Plastic Surgery	100%
Psychiatry	N/A
Radiology	100%
Surgery	100%
Urology	100%
Vascular Surgery	N/A
Fellowships	
Adult Recon	100%
Carbondale Sports Medicine	100%
Cardiovascular Disease	N/A
Child Psychiatry	50%
Colorectal Surgery	100%
Endocrinology	100%
Hand Surgery	N/A
Hematology/Oncology	N/A
Infectious Diseases	100%
Pulmonary Medicine	100%
Quincy Sports Medicine	100%

N/A = No graduates in 2011-2012



Feedback, Teaching & Supervision									
PROGRAM*	SIU End of Year Evaluations Data reported = total number of responses						ACGME Resident Survey		
	Faculty Teaching Skills		Faculty Provision of Feedback		Adequate and Prompt Supervision Provided by Faculty		Sufficient Instruction	Satisfied with feedback after assignments	Sufficient Supervision
	Poor/Fair	Good/ Excellent	Poor/Fair	Good/ Excellent	Poor/Fair	Good/ Excellent	ACGME program data reported in % compliant responses; national average is shown directly below.		
	1-2	3-4	1-2	3-4	1-2	3-4	86%	73%	92%
Child Psych	0	1	0	1	0	1	50%	75%	75%
Dermatology	1	4	0	5	1	4	100%	100%	100%
Emergency Medicine	0	13	0	13	0	13	100%	94%	100%
Endocrinology	0	2	0	2	0	2	100%	100%	100%
FCM - Carbondale	1	4	2	3	1	4	76%	76%	76%
FCM - Decatur	0	5	0	5	0	5	100%	93%	100%
FCM - Quincy	1	7	1	7	0	8	94%	88%	100%
FCM - Springfield	0	11	0	11	0	11	89%	81%	96%
Internal Medicine	0	18	1	17	0	18	88%	71%	100%
Med/Psych	0	3	0	3	0	3	75%	63%	75%
Neurological Surgery	0	2	0	2	0	2	60%	60%	100%
Neurology	0	7	1	6	0	7	100%	75%	100%
OB/GYN	1	4	1	4	0	5	88%	75%	100%
Orthopaedics	1	7	2	6	1	7	93%	67%	93%
Otolaryngology	0	7	1	6	0	7	100%	90%	100%
Pediatrics	0	10	0	10	0	10	90%	81%	100%
Plastic Surgery	0	4	0	4	0	4	100%	100%	100%
Psychiatry	0	8	2	6	0	8	69%	56%	94%
Pulmonary	0	2	0	2	0	2	100%	80%	80%
Radiology	0	6	2	4	0	6	82%	55%	91%
Surgery	0	5	1	4	0	5	94%	71%	94%
Urology	0	7	0	7	0	7	100%	100%	100%
Vascular	0	3	0	3	0	3	100%	80%	100%
All Programs/Institution	5	140	14	131	3	142	90%	79%	96%

*No report for Adult Recon, Cardiovascular Disease, Colon & Rectal Surgery, Hand Surgery, Hem/Onc, Infectious Diseases, Sports Medicine (2)

Trainee Research Symposium Winners

Resident/Fellow Winners of the 2019 SIU School of Medicine Trainee Research Symposium

Award	Resident/Fellow	PGY / Program	Mentor / Department	Title
Poster Presentations				
1st	Nishat Fatima, MD	PGY5 Endocrinology	Michael Jakoby, MD Internal Medicine	Adrenocortical Carcinoma Diagnosed During Evaluation of an Incidentally Discovered Adrenal Mass
2nd	Zara Fatima, MD	PGY4 Neurology	James Gilchrist, MD Neurology	"No Touch" Period 24 Hours Post t-PA Infusion
2nd	Katherine Hyon, MD	PGY3 OBGYN	J. Anne Martin, MD Obstetrics/Gynecology	Assessment of Colposcopy Adherence in a Low Income Patient Population
2nd	Mehwish Farooqi, MD	PGY1 Neurology	Krati Chauhan, MD Internal Medicine	Cutaneous Changes in a Rheumatoid Arthritis Patient
2nd	Najwa Pervin, MD	PGY4 Infectious Diseases	Vidya Sundareshan, MD Internal Medicine	Stroke Alert and False Alarms: How a Virus Can Fool the System
3rd	Sara-Grace Carbrey, MD	PGY1 Medicine/Psychiatry	Mukul Bhattarai, MD Internal Medicine	A Rare Case of Idiopathic, Spontaneous Renal Artery Dissection (SRAD) in a Female Patient on Stimulants
3rd	Jaime Armah, MD	PGY1 Decatur Family & Community Medicine	Justin Parker, MD Family & Community Medicine	The Pitfalls of Polypharmacy: A Case of Neuroleptic Malignant Syndrome
3rd	Victoria Watson, MD	PGY3 Neurosurgery	Jeffrey Cozzens, MD Surgery	Use of 5-Aminolevulinic Acid for Confirmation of Lesional Biopsy Sample in Presumed High Grade glioma: A Technical Case Report
Oral Presentations				
1st	Timothy Daugherty, MD	PGY4 Plastic Surgery	Michael Neumeister, MD Surgery	Potential Mechanism Of Skin Improvement In Radiation Wounds Following Fat Grafting: The Fate Of Adipose Derived Stem Cells And Role Of Stromal Vascular Fraction
2nd	Suhayb Ranjha, MD	PGY1 Internal Medicine	Mukul Bhattarai, MD Internal Medicine	A Curious Case of Pembrolizumab-Induced Crohn's Disease
3rd	Michael Kim, MD	PGY3 Emergency Medicine	James Waymack, MD Emergency Medicine	Euglycemic Diabetic Ketoacidosis, A rare Complication of SGLT-2 Inhibitor
3rd	Manjari Rani Regmi, MD	PGY1 Internal Medicine	Youssef Chami, MD Internal Medicine	Impact of Heart Failure with Preserved Ejection Fraction (HF-pEF) on 30 Days Readmission: A Study from a Single Academic Center

Quality Improvement Poster Symposium and Competition

The SIU Graduate Medical Education Committee presented the 3rd Annual SIU SOM Quality Improvement Poster Symposium and Competition on April 30, 2019, with funding provided by the Memorial Medical Center Foundation. The quality of posters presented continues to improve each year. There were some projects that had been previously presented as works-in-progress, which were presented this year with the final results and impact of their project. This was the first time the Innovation Award, which demonstrates a creative approach to successfully implementing a project, was awarded.

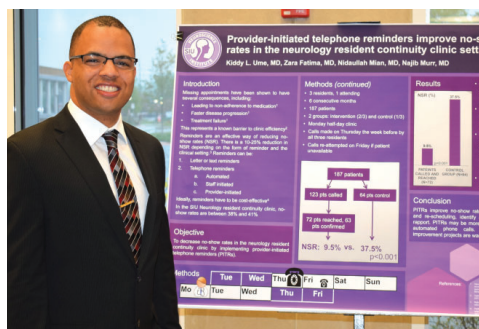
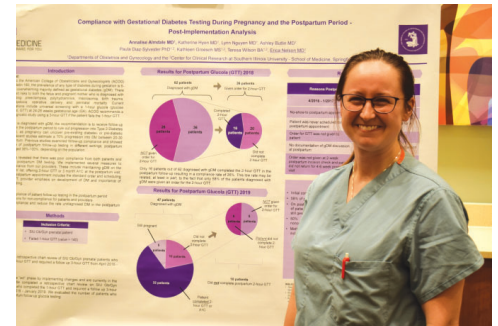
The winners of this year's event were:

◆ First place and Innovation Award – Dr. Annalise Almdale, OB/GYN “Compliance with Gestational Diabetes Testing During Pregnancy and the Post Partum Period - Post Implementation Analysis”

The study objectives were to 1) Identify compliance of patient follow-up testing in the postpartum period 2) Identify reasons for non-compliance for patients and providers 3) Improve compliance and decreased missed diagnoses of DM2.

Conclusion:

- Initial compliance for post partum gluco testing was low, 26%.
- 58% of patients in part one were given an order for a 2 hour GTT
- On Post-implementation analysis, compliance was much improved
- 68% of patients completed post partum gluco testing
- Patients available and completed post partum gluco testing is 76%
- 50% of patient noncompliance can be contributed to provider noncompliance in providing order for postpartum testing.
- Methods at improving patient and provider compliance were successful including:
 - order for GTT given at first postpartum exam
 - maintaining gDM on active problem list
 - Offer 2-hour GTT or 3month A1C at post partum visit
 - Request for post partum appointment includes order and scheduling for 2 hour gluco
 - provider emphasis on risk of development of DM and importance of post partum testing



◆ Second place – Dr. Kiddy Ume, Neurology “Provider (resident) initiated telephone reminders in the neurology resident continuity clinic setting”

The study objective was to decrease no-show rates in the neurology resident continuity clinic by implementing provider-initiated telephone reminders (PITRs).

Conclusion:

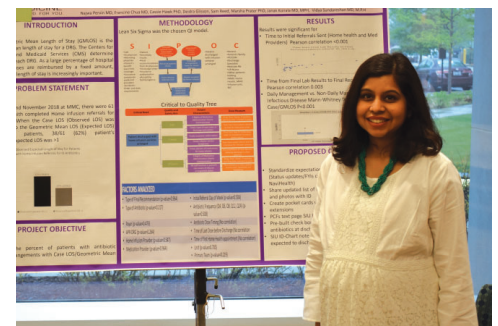
PITRs improve no-show rates, allow for early cancellation and re-scheduling, identify at-risk groups, and help build rapport. PITRs may be more effective than staff initiated or automated phone calls. Further larger-scale quality improvement projects are warranted.

◆ Third place – Dr. Najwa Pervin, Infectious Disease “Reduction of length of inpatient stay with home infusion referral for Intravenous antibiotics”

The study objective was to decrease the percent of patients with antibiotic infusion arrangements Case LOS/Geometric Mean LOS >1

Proposed Changes:

- Standardize expectations for PCF/Discharge planner (Status updates/FYIs can be sent by PCFs in NaviHealth)
- Share updated list of PCF names, contact information, and photos with ID
- Create pocket cards with PCF names and direct
- PCFs text page SIU ID to meet during rounds
- Pre-built check box in ID note “Potential need for IV antibiotics at discharge” that notifies PCF
- SIU ID-Chart note and order by noon if patient is expected to discharge that day



QI/Population Health Forum

A new curricular offering was introduced this year. The QI/Population Health Forum is a multidisciplinary activity developed to expose residents to the various ways differing sectors of the health care delivery system view the diagnosis and treatment of disease. Using asthma as an example, residents used Plan-Do-Study-Act (PDSA) cycles to analyze the course of this illness from the perspectives of providers, ambulatory services, hospital systems, payers, and communities.

Specific learning objectives were to:

- **Identify:**

- care and performance gaps related to asthma across several domains or contexts.
- conflicts and synergies across the domains or contexts.
- current successful projects and programs that create improvement in each domain.

- **Outline real or perceived barriers to improvement that exist at each level.**

- **Brainstorm potential solutions to ongoing performance gaps in each domain.**

The forum helped residents explore the unique perspectives and priorities of stakeholders to best understand how to navigate our ever complex health care system.

Well-Being

For many years we have had a GME wellness initiative that focused on education about wellness, stress management, suicide and impairment prevention, low-barrier access to mental health care for residents, and support for individual residents in crisis and their programs. Recent years have brought a much needed national focus on the relationship between healthcare provider wellness and patient safety, burnout, and physician suicide and impairment. As a result, our efforts and synergy with others has grown.

Here is a just a small sample of the wellness activities happening in the GME community.

- GMEC established a standing Well-Being Subcommittee. Their charge is to liaise and coordinate GMEC wellness initiatives with other SIU SOM wellness programs in order to maximize integration of efforts.
- Residents are actively involved in mentoring, retreats and programs via the Center for Human and Organizational Potential (cHOP), the SIU Medicine Alliance for Women in Medicine and Science (AWIMS) group, and the Office of Equity, Diversity, and Inclusion.
- Establishment of Wellness rooms at SIU SOM and in the Decatur and Carbondale FCM buildings.
- Widespread TeamSTEPPS and other training to improve communication skills
- Multiple program specific wellness activities and initiatives



CLER: Clinical Learning Environment Review

The ACGME CLER program was developed to increase the integration of GME into patient safety and quality endeavors at clinical teaching sites.

The CLER focus areas are:

- Patient safety
- Healthcare quality, including healthcare disparities
- Transitions of care
- Supervision
- Clinical and educational work hours/fatigue management and mitigation
- Professionalism
- Physician well-being

We had our third CLER visit in December 2018. This visit took place at Memorial Medical Center (MMC). The previous visits have been at HSHS Saint John's Hospital. CLER visits are fairly intensive, spanning two days. The team met with leadership and patient safety professionals from SIU and MMC. A new addition in 2018 was a meeting with designated wellness leaders. The team conducted separate group meetings with program directors, faculty members and trainees. They walked around, interviewed nurses, and observed a number of handoffs. The ACGME has started to include observation of operative procedures in the visits. However, this was not part of our visit. The CLER team provides an extensive verbal and written report of their observations. This information is in the form of reporting what they observed and heard in aggregate form. The feedback does not have an evaluative or assessment component. However, the 2018 ACGME CLER National Report of Findings provides some insight into national trends on a set of standard CLER visit questions. In the areas of patient safety, health care quality, supervision, and well-being, "positive" responses were around or slightly above the national average. Aggregate responses regarding how well TOC processes are standardized, especially in high risk TOCs, indicated room for improvement, relative to national findings. The GMEC has set a goal to improve this. There were two areas in which we received feedback that was well above that reported nationally. One area is the extent to which time outs are respected and utilized, and the collective level of comfort in speaking up if a physician does not perform a time-out. The other area was a very high level of confidence in the effectiveness of how we manage reports of unprofessional behavior.

Educational Balance				
	SIU End of Year Evaluations		ACGME Resident Survey	
	Balance of time between clinical learning activities & didactic learning activities		Appropriate balance between education and other clinical demands	Education (not) compromised by excessive reliance on non-physician obligations
	Data = total # of responses			
	Poor/Fair	Good/Excellent	ACGME program data reported in % compliant responses; national average is shown directly below.	
PROGRAM*	1-2	3-4	81%	76%
Child Psych	0	1	75%	100%
Dermatology	2	3	67%	33%
Emergency Medicine	1	11	100%	100%
Endocrinology	0	2	100%	100%
FCM - Carbondale	0	5	76%	71%
FCM - Decatur	0	5	93%	80%
FCM - Quincy	2	6	81%	69%
FCM - Springfield	2	9	93%	85%
Internal Medicine	5	13	83%	71%
Med/Psych	1	2	75%	88%
Neurological Surgery	0	2	80%	80%
Neurology	0	6	100%	100%
OB/GYN	0	5	94%	88%
Orthopaedics	1	7	93%	93%
Otolaryngology	1	6	80%	90%
Pediatrics	0	9	90%	90%
Plastic Surgery	0	4	100%	100%
Psychiatry	3	5	75%	75%
Pulmonary	0	2	80%	100%
Radiology	0	6	82%	82%
Surgery	0	5	88%	82%
Urology	0	7	100%	100%
Vascular	0	3	100%	80%
All Programs/Institution	18	124	88%	84%

*No report for Adult Recon, Cardiovascular Disease, Colon & Rectal Surgery, Hand Surgery, Hem/Onc, Infectious Diseases, Sports Medicine (2)

GME Professional Development

PROGRAM COORDINATOR DEVELOPMENT TOPICS

- Annual Program Evaluation
- EHR Onboarding
- ERAS Tips
- Exiting Residents
- J-1 Visas & Employment Authorization
- Medical Licensing
- Medicare / Medicaid enrollment
- Milestones, Case Logs, and CCC Meetings
- National Resident Matching Program
- New Innovations
- New Resident Orientation – GME & Program
- Physician Wellness
- Program Letters of Agreement
- Quality Improvement & Patient Safety Activities
- Record Keeping / Resident Files
- Recruitment
- Scheduling - Rotation and Conference
- Scholarly Activity
- WebADS Annual Update

PROGRAM DIRECTOR DEVELOPMENT SESSIONS

- 2019:
 - New ACGME Common Program Requirements
- 2018:
 - Programmatic Aspects of Resident Performance Assessment
 - Program Director's Guide to Coaching and Mentoring
- 2017:
 - Conflict Management
 - Competency Based Assessment Systems & Milestones
- 2016:
 - Going Ape for APE
 - The Resident in Academic Difficulty
- 2015:
 - Improving our Learning Environment
- 2014:
 - Competency Based GME

RESIDENT/FELLOW LIVE SESSIONS & ONLINE MODULES

- Employment Contracts and Financial Planning
- Medical Legal Partnerships
- Patient Safety & Communication
- Professional Boundaries & Social Media
- Quality Improvement & Population Health
- Residents as Teachers
- Root Cause Analysis
- Sleep Deprivation & Fatigue Education
- Supervision of Residents
- Understanding Wellness, Stress, and Impairment in Physicians



New Resident / Fellow Orientation Overview

- ACGME: Clinical Learning Environment, Clinical & Educational Work Hours, Competencies, Fatigue & Alertness, Milestones, Resident Wellness
- Basic Teaching Skills: Setting Expectations, Feedback & Clinical Teaching
- Electronic Health Record Training & Standards
- HIPAA
- Infection Control
- Introduction to Health Care Disparities & Cultural Competency
- OSHA
- Patient Safety Principles: Medical Error Reporting & Sources, Communication, Transitions of Care, Hand Washing, Local Patient Safety Initiatives
- Physician Burnout, Depression & Substance Misuse: Prevention, Recognition & Assistance
- Principles of Risk Management
- Professionalism: Patient Confidentiality, Physician-Patient Boundaries, E-Professionalism, Inclusion & Respect
- Supervision

A Message from the House Staff Board of Directors President:

The House Staff Board of Directors (HSBOD) is a group of residents that meets monthly to address issues pertaining to residency and the relationship residents have with each hospital and the School of Medicine. Each residency program nominates a primary and alternative delegate to represent them in the HSBOD, but every resident is welcome to sit in on meetings.

Each year the board reviews the ACGME mid-year and end-of-year surveys to determine what changes may need to be made to improve the learning environment in Springfield. This information has proven useful in addressing the concerns of our residents and we have seen improvements in both the ACGME and SIU surveys.

Another hot topic on the national level is resident wellness and mental health. We were able to secure new sleep and call rooms for residents ensuring that residents of all specialties have available call rooms overnight and nap rooms during the day at both hospitals. Additionally, with the help of the SIU Graduate Medical Education Committee, the HSBOD has ensured all residents have access to resources for recognizing and managing wellness issues, fatigue, and physician burnout. We have continued our work with the Resident Resource Fund and during the past year have awarded a total of \$2350 to residents to help them manage expenses related to conference attendance, away rotations, research, and educational materials.

The HSBOD has always assisted new incoming residents with their institutional orientation at SIU and this year has planned to have a school-wide residency gathering for food, drink, and relaxation that is open to residents and their families. Over the past several years I have been proud to work as part of the HSBOD and look forward to continuing to work this year on bettering the learning climate at SIU for all residents.

Breck Jones, MD
Neurosurgery, PGY5
President, House Staff Board of Directors



Resident/Faculty National Leadership

Colon & Rectal Surgery

Jan Rakinic, MD

Executive Committee Member, American Board of Colon & Rectal Surgery (ABCRS)

Steve Tsoraides, MD

Surveyor and Accreditation Committee Member, American College of Surgeons / Commission of Cancer, National Accreditation Program for Rectal Cancer

Dermatology

Stephen Stone, MD

Chair, American Academy of Dermatology
Individual Giving Committee

Family & Community Medicine – Decatur

Johnny Tenegra, MD

Co-Chair, Family Medicine Midwest Conference
Host Committee

Family & Community Medicine – Quincy

Paula Mackrides, DO

Delegate, American Osteopathic Association House of Delegates, American College of Osteopathic Family Physicians Congress of Delegates; Governing Board Member, Osteopathic Post-Graduate Training Institute (OPTI-AT Still)

Family & Community Medicine – Springfield

Wendi El-Amin, MD

Chair, Women's Health Section,
National Medical Association

Dae Jeong, MD

Chairman, Medical and Anti-Doping Committee, World Taekwondo (WT); Chairman, Medical and Anti-Doping Committee, Pan Am Taekwondo Union (PATU)

Harry Lausen, DO

Chair, Bureau of Osteopathic Education, American Osteopathic Association

Hand Surgery

Michael Neumeister, MD

Chair, Plastic Surgery Resident Review Committee, Accreditation Council for Graduate Medical Education; Advisory Council Member, Chair of Credentials & Requirements Committee, Senior Examiner, and Director, American Board of Plastic Surgery; Board of Governors, American College of Surgeons; Chair of Research Committee, PS Coordinators Committee, and Technology Committee, Co-Chair of New Technology for Education Committee, American Council for Academic Plastic Surgeons; Co-Chair Reconstructive Symposium, American Association of Plastic Surgeons; Hand Journal Committee, American Association for Hand Surgery; Treasurer, American Society for Peripheral Nerve/ Editor-in-Chief HAND Journal, American Association for Hand Surgery

Hematology / Oncology

Edem Agamah, MD

President, International Health & Development Network (IHDN)

Internal Medicine

John Flack, MD

Member Board of Regents, American College of Physicians; President, American Hypertension Specialist Certification Program; Vice Chair, Hypertension Professional Education Committee, American Heart Association; Board of Trustees, International Society of Hypertension in Blacks, Inc.

Susan Hingle, MD

Chair, Education and Publications Committee, Chair, Wellness Task Force, American College of Physicians

Neurology

Najib Murr, MD

Steering Committee Member, Epilepsy Foundation's National Epilepsy and Awareness Collaborative Community of Practice; Editorial Board Member, Journal of Neurology and Neuroscience; Editor in Chief for Epilepsy Section, StatPearls

Rodger Elble, MD

Chair, Tremor Study Group, International Parkinson and Movement Disorder Society

Resident/Faculty National Leadership

OBGYN

Ricardo Loret de Mola, MD

Chair, Illinois Section of the American College of Obstetricians and Gynecologists

Advisory Council, Illinois Section of the American College of Obstetricians and Gynecologists

Orthopedic Surgery

Christine DiPompeo, MD (Resident)

Executive Board Resident Assembly, Committee Chair, Career Development Resident Assembly, American Academy of Orthopaedic Surgeons

Norman Otsuka, MD

Chairperson, Section on Orthopaedics, American Academy of Pediatrics; Deputy Editor, Journal of the American Academy of Orthopaedic Surgeons; Board of Directors, Accreditation Council for Graduate Medical Education

Otolaryngology

Carol Bauer, MD

Secretary General, Hearing International; President, American Otolological Society; Senior Examiner, American Board of Otolaryngology

Plastic Surgery

Nicole Sommer, MD

Co-Chair of Women in Academic Surgery Committee, American Council of Plastic Surgery

Psychiatry

Karen Broquet, MD

Chair, Group on Resident Affairs Core Competency Committee, Association of American Medical Colleges

Laura Shea, MD

Illinois Alternate Delegate, American Medical Association

Sports Medicine – Quincy

James Daniels, MD

Senior Editor, Sports Medicine In-Training Exam, American Medical Society of Sports Medicine; Head Team Physician, US Olympic Team for Pan Am Games Lima, Peru

Surgery

Stephen Hazelrigg, MD

Chair, Taskforce on New Technologies in Thoracic Surgery, Society of Thoracic Surgery

John Mellinger, MD

Board of Directors, American Board of Family Medicine; Director, American Board of Surgery; Chair, General Surgery Residency Committee, American Board of Surgery; Co-Chair of Resident & Fellow Training Committee and 1st Vice President, Society of American Gastrointestinal and Endoscopic Surgeons; Board of Directors, Association of Program Directors in Surgery; Board of Trustees, Christian Medical and Dental Association

Hilary Sanfey, MD

Chair, Association of Women Surgeons Foundation

Urology

Bradley Schwartz, DO

Chair, Education Committee North Central Section of the American Urological Association

Vascular Surgery

Kim J. Hodgson, MD

President Elect, Society for Vascular Surgery

Resident/Fellow Publications

PUBLICATIONS

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Nayeemuddin F, Ullah S, Kyaw P, Sreedhar R. Isolated Pseudotumor as a Presentation of Granulomatosis with Polyangiitis. *American Journal of Respiratory and Critical Care Medicine* 2019;199:A3105. May 2019 B40. AUTOIMMUNE LUNG DISEASE CASE REPORTS

Ali M, Ibrahim A, Kyaw P, Kulkarni A, Siddique M. Right Atrial Thrombus Associated with Concurrent Myocardial Infarction and Pulmonary Embolism. *American Journal of Respiratory and Critical Care Medicine* 2019; 199:A3467. May 2019 B50. CRITICAL CARE CASE REPORTS: CARDIOVASCULAR DISEASES IN THE ICU I

Radiology

Bekker S, **Ryan D**. Effects of High Dose 5-ALA in the Resection of Glioblastoma. *Journal of Neuro Oncology*. Jan 2019.

Sports Medicine – Quincy

Daniels JM, DeCastro A, **Choudhury D**. Olecranon Bursitis. In: Achar SA, Taylor KS, editors. *The 5-Minute Sports Medicine Consult Premium*, 3rd edition. Philadelphia: Wolters Kluwer; 2020. p. 396-7. Published May 2019.

Surgery

Knight S, Lipson A, Brandt M, Wietfeldt E, Cozzens J. Solitary cerebellar metastasis as herald symptom of primary cecal adenocarcinoma. *ACS Case Reviews in Surgery*. 2019;2(3):24–28

Khan A, Rakinic, Kim, Mellinger, Ganai. National Trends in General Surgery Resident Exposure to Complex Oncology-Relevant Cases. *J Surg Educ* March-April 2019; 76(2):378-386 PMID 30253983

Knight S, VanHouwelingen L, Cervi D, Clay MR, Corkins M, Hines-Dowell S, Hamilton KV, Mostafavi R, Ward J, Furman WL, Murphy AJ. Genitopatellar syndrome and neuroblastoma: the multidisciplinary management of a previously unreported association. *Pediatr Blood Cancer*. 2018 Dec;65(12):e27373 PMID 30084242

Smith M, Mellinger, Faingold. "Possible Drug-nutraceutical Interaction leading to Unexpected Sequelae after Inguinal Hernia Repair". *Am J Case Rep*. 2018 Jul 17;19:836-838 PMID 30013020

Urology

Ring J, Hernández JC, Trost L, Köhler T, Traweek R, Alom M, Wang R. Emerging Complications Following Alternative Reservoir Placement during Inflatable Penile Prosthesis Placement: A 5-Year Multi-Institutional Experience. *Journal of Urology*. 2019 Mar;201(3):581-586. doi: 10.1016/j.juro.2018.10.013. PubMed PMID: 30366022.

Baas W, Holland B, Butcher MJ, Lwin A, Herberts M, Clemons J, Delfino K, Althof S, Kohler TS, McVary KT. A Review of the FAERS Data on 5-Alpha Reductase Inhibitors: Implications for Postfinasteride Syndrome. *Urology*. 2018, Oct;120:143-149. doi: 10.1016/j.urology.2018.06.022. Epub 2018 Jun 27. PubMed PMID: 29960004.

Holland B, Sood A, Delfino K, Dynda DI, Ran S, Freed N, Alanee S., Age and sex have no impact on expression levels of markers of immune cell infiltration and immune checkpoint pathways in patients with muscle-invasive urothelial carcinoma of the bladder treated with radical cystectomy. *Cancer Immunol Immunother*. 2019 Jun;68(6):991-997. doi: 10.1007/s00262-019-02340-w. Epub 2019 Apr 17. PubMed PMID: 30997535.

Holland B, Alanee S, Clemons J, Dynda D., Death due to sepsis in patients diagnosed with prostate cancer. *Prostate*. 2019 Feb;79(3):295-301. doi:10.1002/pros.23735. Epub 2018 Nov 18. PubMed PMID: 30450562.

Holland B, Alanee S, Clemons J, Dynda D., Death due to sepsis in patients diagnosed with prostate cancer. *Prostate*. 2019 Feb;79(3):295-301. doi:10.1002/pros.23735. Epub 2018 Nov 18. PubMed PMID: 30450562.

Resident/Fellow Publications & Presentations

Holland B, Gupta N, Rogers T, Helo S, Dynda D, McVary KT. Three-Year Treatment Outcomes of Water Vapor Thermal Therapy Compared to Doxazosin, Finasteride and Combination Drug Therapy in Men with Benign Prostatic Hyperplasia: Cohort Data from the MTOPS Trial. *Journal of Urology* 2018 Aug;200(2):405-413 doi:10.1016/j.juro.2018.02.3088. Epub 2018 Mar 1. PubMed PMID: 29499208.

Hart K, Tadros NN. The role of environmental factors and lifestyle on male reproductive health, the epigenome, and resulting offspring. *Panminerva Med.* 2019 Jun;61(2):187-195. doi: 10.23736/S0031-0808.18.03531-0. PubMed PMID: 30990287.

PRESENTATIONS

Adult Reconstructive Surgery – See Orthopaedics

Child Psychiatry

Shenoy S, Campbell P, Patel R, Deotale P*. "Movement Disorders and Atypical Antipsychotics; Are we missing the biggest issue?" American Academy of Child and Adolescent Psychiatry 65th Annual Meeting (Seattle, October 2018)

Mukhtar A, **Nibras S, Nasrallah H.** "Lurasidone-Induced Mania: A Case Report." American Psychiatry Association Annual Meeting (San Francisco, May 2019)

Nibras S, Yacim M, Barnes A. "Difficulty of Finding Adequate Management for Transitioning Adolescents With Prader Willi Syndrome." American Psychiatry Association Annual Meeting (San Francisco, May 2019)

Shenoy S, Nibras S, Takahashi A. "Impact of training on attitudes and practices of brief screening, interviewing, intervention and referral for use and abuse of marijuana in adolescent." American Psychiatric Association Annual Conference (San Francisco, May 2019)

Colorectal

Emdadi A, Pacheco P, Engelking N, Delfino K, Rakinic J. Impact of Obesity on Colorectal Adenoma Detection Rate (ADR) - E-poster Number: P464. ASCRS 2019 Annual Scientific Meeting June 1-5, 2019 - Cleveland, OH

Dermatology

Schnietz R, Buescher LS, Wilson ML. Cutaneous macroglobulinosis. American Society of Dermatopathology Annual Meeting, Chicago, IL. November 8-10, 2018 [Accepted]

Emergency Medicine

Golitko A, An Unusual Case of Choking: A Cautionary Tale with Granulomatosis with Polyangiitis Airway Management. Society of Critical Care Medicine, Critical Care Congress, San Diego, CA. February 18, 2019.

Tweet M, Wahl M. Effect of Guidelines on FFP/4-Factor PCC utilization in treatment of coagulopathy from Synthetic Cannabinoids tainted with Long Acting Anticoagulant Rodenticides. American College of Medical Toxicology Annual Scientific Meeting, San Francisco, CA. April 15, 2019.

Endocrinology

Kanta R, Fatima N, Ward S, Jabri H, Jakoby M. "Hyperglycemic Hyperosmolar Syndrome Causing Hypercoagulability and Venous Thromboembolism." American Association of Clinical Endocrinologists 28th Annual Scientific and Clinical Congress, April 24-28, 2019, Los Angeles, CA

Kanta R, Parveen S, Jakoby M. "Hypothyroidism Induced by the Immune Checkpoint Inhibitor Nivolumab." American Association of Clinical Endocrinologists 28th Annual Scientific and Clinical Congress, April 24-28, 2019, Los Angeles, CA

Ansari M, Tarabichi U, Jabri H, Rehman A, Jakoby M. "Secondary Adrenal Insufficiency due to the Immune Checkpoint Inhibitor Pembrolizumab." American Association of Clinical Endocrinologists 28th Annual Scientific and Clinical Congress, April 24-28, 2019, Los Angeles, CA

Parveen S, Jabri H, Rehman A, Jakoby M. "Polycystic Ovary Syndrome with Adrenal Hyperandrogenemia and Refractory Hirsutism." ENDO 2019 (The Endocrine Society's 101st Annual Meeting and Expo), March 23-26, 2019, New Orleans, LA

Parveen S, Jabri H, Rehman A, Jakoby M. "Diabetes Insipidus and Hypopituitarism in a Patient with Transient Isolated Pituitary Stalk Enlargement." ENDO 2019 (The Endocrine Society's 101st Annual Meeting and Expo), March 23-26, 2019, New Orleans, LA

Fatima N, Parveen S, Rehman A, Garfinkel M, Jakoby M. "Adrenocortical Carcinoma Diagnosed during Evaluation of an Incidentally Discovered Adrenal Mass." ENDO 2019 (The Endocrine Society's 101st Annual Meeting and Expo), March 23-26, 2019, New Orleans, LA

Fatima N, Tarabichi U, Jakoby M. "Graves' Disease Complicated by Thyrotoxic Periodic Paralysis." ENDO 2019 (The Endocrine Society's 101st Annual Meeting and Expo), March 23-26, 2019, New Orleans, LA

Family & Community Medicine - Decatur

Naeem A, Parker JD, Scott MD. "Out-patient diabetes self-management program - maximize knowledge, attendance and compliance." Family Medicine Midwest. Nov 2018.

Patel H and Tenegra J. "Improving Completion of Ages & Stages Questionnaires in a Federally Qualified Health center." Society of Teachers of Family Medicine Annual Spring Conference. Toronto, ON. April 2019.

Family & Community Medicine - Springfield

Jeong D, Albers J, **Saeed, S, Mohammad A, Cong L.** CONTROL ID: 3160580 Poster Session A "The Evaluation Of Dyspnea and Edema BY the Point-of-care Ultrasound in Geriatric Ambulatory Care Setting Current Category: Case Series & Case Studies (scholarship using individual cases or case series to provide insight into best practices in geriatrics) Final Poster ID#: A18 AGS (American Geriatric Society) Meeting in Portland Oregon May 2, 2019

Resident/Fellow Presentations

Saeed S, Jeong D, Mohammad A, Cong L. CONTROL ID: 3160957 Poster Session D (Students & Residents) "Syncope Secondary To Rivastigmine Use in Older Adults Current Category: Case Series & Case Studies (scholarship using individual cases or case series to provide insight into best practices in geriatrics)"
Final Poster ID#: D63 AGS (American Geriatric Society) Meeting in Portland Oregon Friday, May 3, 2019

Hui J, Mirocha N. "Developing a Credentialing Process For OMT Proficiency For Family Medicine Residents" Poster at the American College of Osteopathic Family Physicians National Meeting March 21, 2019, Chicago, IL

Tenegra N, Cong, L DO, Dobbins M, Mirocha N, Golden M. "Breaking Bad:" Challenging Health Care System Authority for Primary Care Delivery. Putting Care at the Center National meeting 2019, National Center for Complex Health and Social Needs Dec 2018, Chicago, IL.

Buffey K, Mirocha N. "Getting to yes or no: A Quality Improvement Project to Obtain Informed Consent for OMT", National AAMC Integrating Quality Conference Arlington, VA June 2018

Bhandari PM, Goel SS, Gupta S. Loperamide Abuse: A Rising concern. AAFP Family Medicine Experience (FMX) National Conference. New Orleans, October 9 - 13, 2018.

Infectious Disease

Pervin N-"Comparative In-vitro Study of Susceptibilities of Eravacycline, Tigecycline, and Minocycline against Multidrug Resistant *Acinetobacter baumannii*" Presented at Midwest Clinical & Translational Research Meeting of Central Society for Clinical and Translational Research (CSCTR) and Midwestern American Federation for Medical Research (MWAFMR), Chicago, IL 2019

Chua F- "Cladophialophora bantiana Brain Abscess and Voriconazole-Induced Fluorosis and Periostitis Deformans." Accepted as one of the top 15 cases during the national Infectious Diseases Society of America "Interesting Cases Submitted During the ID Week Call for Cases" poster session. Washington, DC, October 2019.

Sundareshan V and **Pervin N** - Comparative In-vitro Study of Susceptibilities of Eravacycline, Tigecycline, and Minocycline against Multidrug Resistant *Acinetobacter baumannii* Uditia Chapagain, Mid-West American Federation of Medical Research, Chicago April, 2019

Sundareshan V and **Pervin N** - In vitro Activity of Eravacycline and Other Tetracyclines on Extended Spectrum Beta-lactamase Producing Clinical Isolates of Gram Negative Organism., Mid-West American Federation of Medical Research, Chicago April, 2019

Internal Medicine

Sartawi T, Al-Bast B, Sreedhar R. Pasteurella Canis: A Rare Cause of Chronic Bronchitis in a Patient with Intralobar Pulmonary Sequestration" Poster presentation at the Annual Meeting of the American Thoracic Society; May 19, 2019; Dallas, TX.

Ali M, Ibrahim A, Kulkarni AK. Left Ventricular Noncompaction Cardiomyopathy: An Underrecognized Cause of Heart Failure. Chest. 2018;154(4). Presented at the CHEST Annual Meeting, October 6-10, 2018. doi.org/10.1016/j.chest.2018.08.061.

Ali M, Ibrahim AM, Kyaw P, Kulkarni A, Siddique M. "Right Atrial Thrombus Associated with Concurrent Myocardial Infarction and Pulmonary Embolism." Annual Meeting of the American Thoracic Society; May 17-22, 2019; Dallas, TX.

Ali M, Ibrahim A, Mamillapalli C. Hypernatremia after Cardiopulmonary Arrest - An Ominous Finding. Annual Meeting of the American Thoracic Society. May 17-22; 2019 Dallas, TX.

Bhandari B, Baquero G. Thrombotic Mid LAD Occlusion Presenting as Isolated Inferior Wall STEMI. Miami Valves Conference Jan 2019, Miami, FL.

Bhandari B, Garcia OL, Ibrahim A, Kulkarni A. A Rare Case of Refractory Torsades De Pointes with Diphenhydramine Overdose. Presented at the ACC Conference, March 16 - 18, 2019; New Orleans, LA. doi:10.1016/s0735-1097(19)33402-3

Bhandari B, Mikhail M. Reverse Remodeling and Restoration of Left Atrial Elasticity- A New Paradigm. American College of Cardiology National Meeting, New Orleans, LA, March 2019

Bhandari B, Regmi M, Ibrahim A, Albast B, Koester C, Parajuli P, Al-Akchar M, Buhnerkempe M, Worix A, Kulkarni A. General anesthesia versus conscious sedation in transcatheter aortic valve replacement; experience from a growing structural cardiology program in the Midwest. ACP Internal Medicine Meeting. April 11-13, 2019. Philadelphia, PA.

Bhandari B, Regmi M, Ibrahim A, Al-Bast B, Koester C, Parajuli P, Al-Akchar M, Buhnerkempe M, Worix A, Kulkarni A. General anesthesia versus conscious sedation in transcatheter aortic valve replacement; experience from a growing structural cardiology program in the Midwest. Poster presentation, National ACP: Internal Medicine 2019, Philadelphia, PA, April 2019

Bhandari B, Al-Akchar M, Baquero G. Self-expanding Device Migration Resulting in Severe Paravalvular leak: Snare vs. Valve-in-Valve. Challenging Case, TVT 2019 June 13-15, 2019, Chicago IL.

Ibrahim A, Al-Akchar M, Bhandari B, Mahmaljy H, Al-Bast B, Ali M, Koester C, Kulkarni A. Open Access Scheduling for Routine and Urgent Appointments to Cardiology Clinic. National ACP: Internal Medicine 2019, Philadelphia, April 2019.

Ibrahim A, Ali M, Al-Akchar M, Kulkarni A, Siddique M. A Rare Cause of Shortness of Breath In An Adult: Discrete Subaortic Membrane. Presented at the ACC Conference, March 16-18, 2019, New Orleans, LA. doi.org/10.1016/S0735-1097(19)33174-2

Ibrahim A, Ali M, Al-Bast B, Bhandari B, Kulkarni A. Energy Drink Consumption Resulting In Severe Hypertriglyceridemia, Hyperglycemia, And Acute Pancreatitis. Presented at the ACC Conference, March 16-18, 2019, New Orleans, LA. doi.org/10.1016/S0735-1097(19)33358-3.

Ibrahim A, Al-Akchar M, Bhandari B, Mahmaljy H, Al-Bast B, Ali M, Koester C, Kulkarni A: Open Access Scheduling for Routine and Urgent Appointment to Cardiology Clinic. ACP Internal Medicine Meeting. April 11-13, 2019. Philadelphia, PA. (Presented at the local ACP and won first place).

Ibrahim A, Ali M, Kulkarni AK. Unusual Case Of NSTEMI Associated With Myocardial Bridge. Presented at the CHEST Annual Meeting, October 6-10, 2018 doi.org/10.1016/j.chest.2018.08.059

Ibrahim AM, Bhandari B, Gudivada S, Mahmaljy H, Kulkarni A. Purulent Pericarditis Due To Methicillin-Resistant Staphylococcus Aureus Complicated By Cardiac Tamponade. Presented at the ACC Conference, March 16 - 18, 2019; New Orleans, LA. ;doi:10.1016/s0735-1097(19)33359-5

Abbot N, Koester C, Bottum K: A Catatonic Surprise - 2018 American Neuropsychiatric Association Annual Meeting Abstracts. J Neurol Neurosurg Psychiatry. 2018;30(3):e1.

Liao H-I, Izaguirre-Anariba D, **Tandan N,** Mir T. "Fulminant Necrotizing Myositis with Concurrent Streptococcus Bovis Bacteremia." SCCM. February 18, 2019.

Liao H-I, Izaguirre-Anariba D, **Tandan N,** Shah N, Mir T. "Acute leukoencephalopathy after chasing the dragon." SCCM. February 18, 2019.

Izaguirre-Anariba D, **Tandan N,** Liao H-I, Adarkwah O, Thet Z, Mir T. "A young woman with an unusual cause of severe abdominal pain due to massive splanchnic thrombosis." SCCM. February 18, 2019.

Med Psych – See also Internal Medicine

Bryant M, Datey-Chakrabarty A, Shrestha Sa. "Cognitive Impairments in Self-induced Anoxic Brain Injury." American Neuropsychiatric Association Conference (Chicago, March 2019).

Shah R, Abbot N, Baloch T, Wolf K, "The Opioid Epidemic: Saving Lives by Educating Prescribers" American Psychiatric Association Annual Conference (San Francisco, May 2019)

Neurosurgery

Michael, A.P. Cozzens, J.W., **Lipson, A.B.,** (April 2019). Influence of Age and Extent of Resection on Survival in Individuals Undergoing Surgery for Glioblastoma. ePoster presented at 2019 Annual AANS Apr 13-17 meeting, San Diego, CA.

Michael, A.P., Jones, B.A., Lipson, A.B., Cozzens, J.W., Espinosa, J.A., Acakpo-Satchivi, L.J. (April 13-17, 2019). A Phase 1 and 2 Study of oral 5-Aminolevulinic Acid in Adult Patients Undergoing Resection of High-Grade Glioma. ePoster presented at 2019 Annual AANS meeting, San Diego, CA. (Recipient of First Place Tumor AANS ePoster Award)

Lipson, A.B., Stark, C.J., Michael, A.P., Muehle, C.M. (April 2019). Moyamoya-Like Vasculopathy in a Woman with Recurrent HELLP Syndrome in Pregnancy. Moyamoya-Like Vasculopathy in a Woman with Recurrent HELLP Syndrome in Pregnancy. ePoster presented at 2019 Apr 13-17 Annual AANS meeting, San Diego, CA.

Jones, B.A., Michael, A.P., Elias, A. Traumatic Intracranial Aneurysms Due to Penetrating Brain Injury: A Case Report and Suggested Management Guidelines. Poster presentation at the 2018 Oct 5-10, meeting of the Congress of Neurological Surgeons. Houston, Texas.

Jones, B.A., Amin DV. A-Mode Ultrasound Based Skull Registration for Surgical Navigation. Poster presentation at the 2018 Oct 5-10, meeting of the Congress of Neurological Surgeons, Houston, Texas.

Neurology

Zara F, Gilchrist J: "No Touch" Period 24 Hours Post t-PA Infusion. Poster Presentation, American Academy of Neurology (AAN) Meeting, May 2019, Philadelphia, PA.

Ibrahim F, "Creutzfeldt Jakob (CJD) Disease presenting with Ophthalmoplegia and Peripheral Neuropathy." Poster Presentation, American Academy of Neurology (AAN) Meeting, May 2019, Philadelphia, PA.

Ibrahim F, "Capecitabine Induced Leukoencephalopathy: Is there a correlation with liver metastases?" Poster Presentation, American Academy of Neurology (AAN) Meeting, May 2019, Philadelphia, PA.

OB/GYN

Le N, Cregger M, **Nguyen L,** Loret de Mola JR, Groesch K, Wilson T, Diaz-Sylvester P, Braundmeier-Fleming A. "Alteration of Microbial Communities and Immune Populations in Patients with Endometriosis" Presented at 51st Annual Meeting, Society for the Study of Reproduction, New Orleans, LA – July 10-13, 2018.

Whorton AA, Sekulovski N, Tanaka T, Hirota Y, MacLean JA, Shi M, Loret de Mola JR, Groesch K, Diaz-Sylvester P, Wilson T, **Palencia L,** Braundmeier-Fleming A, Hayashi K. "Suppressing Inflammatory Responses in Endometrial Lesions by Reducing the Secretion of Cytokines and Chemokines" Presented at 51st Annual Meeting, Society for the Study of Reproduction, New Orleans, LA – July 10-13, 2018.

Ghareeb A, **Pratt K,** Aguirre-Amezquita F, Raw A, Fetter M, Diaz-Sylvester P, Groesch K, Wilson T, Delfino K, Nelson E, Abrams R. "Amniotic Fluid Index (AFI) vs. Maximum Vertical Pocket (MVP) for the Assessment of Oligohydramnios". Presented at the 2017 District VI Annual Meeting of the American Congress of Obstetricians and Gynecologists (ACOG). Savannah, GA – September 28-30, 2018.

Palencia L, Loret de Mola J, Roloff K, Wilson T, Diaz-Sylvester P, Groesch K, Delfino K, Ghareeb A, Rosas L, Padilla J, Lara-Cinisomo S. "Examining the Relationship between Differing Institution-based Diabetes Treatment Algorithms, Glucose Management and Perceived Patient Self-Efficacy" Presented at the Central Association of Obstetricians and Gynecologists. Minneapolis, MN – October 17-20, 2018.

Loret de Mola J, Le N, **Nguyen L,** Diaz-Sylvester P, Wilson T, Groesch K, Braundmeier-Fleming A. "Detection of Urinary Estrogen Metabolites in Women with Endometriosis" Presented at the European Congress on Endometriosis. Vienna, Austria – November 22-14, 2018.

Kuroki L, Kreuter M, Leon A, Groesch K, Wilson T, Brown D, Liu J, Martin J, Semaan A, Thompson T, McQueen A, Zeino Y, **Hyon K,** Ghareeb A, Massad S. "Addressing Unmet Basic Needs to Improve Colposcopy Adherence among Women with an Abnormal Pap Test" Presented at the 50th Annual Meeting for the Society for Gynecologic Oncology. Honolulu, HI – March 16-19, 2019.

Gibson K, Cregger M, **Pratt K,** Ghareeb A, Brard L, **Hyon K,** Groesch K, Wilson T, Badger T, Braundmeier-Fleming A. "Understanding and Diagnosing Endometrial Cancer using MULTI-organ Microbial Taxonomic Signatures" Presented at the 50th Annual Meeting for the Society for Gynecologic Oncology. Honolulu, HI – March 16-19, 2019.

Resident/Fellow Presentations

Hyon K, Wilson T, Groesch K, Ghareeb A, Diaz-Sylvester P, Kuroki L, Delfino K, Massad S, Zeino Y, Semaan A, Martin J. **"Assessment of Colposcopy Adherence in a Low Income Patient Population"** Presented at the American Society for Colposcopy and Cervical Pathology. Atlanta, GA – April 4-7, 2019.

Battley L, Fetter M, Wilson T, Groesch K, Diaz-Sylvester P, Ghareeb A, Butlin A, Brard L, Zeino Y, Nelson E **"Prophylactic Salpingectomy Analysis: A Risk Reduction Procedure for Ovarian Cancer"** Presented at the Society for Academic Specialists in General Obstetrics and Gynecology (SASCOG). Nashville, TN – May 2, 2019

Portugal A, Le H, **Gong J**, Groesch K, Loret de Mola J, Braundmeier-Fleming A. **"Association of Fecal Microbial Profiles and Estrogen Metabolism in Patients with Preterm Birth."** Presented at the American Congress of Obstetricians and Gynecologists (ACOG). Nashville, TN – May 3-6, 2019.

Idusuyi B, Le N, **Gong J**, Ghareeb A, Groesch K, Loret de Mola J, Braundmeier-Fleming A. **"Maternal Inflammation and Urogenital Microbial Profiling as Predictors of Preterm Birth"**. Presented at the American Congress of Obstetricians and Gynecologists (ACOG). Nashville, TN – May 3-6, 2019.

Onyewuenyi T, Le N, **Addo J**, Groesch K, Loret de Mola J, Braundmeier-Fleming A. **"Chronic Peripheral Inflammation and Perinatal Depression in High Risk Pregnancies"**. Presented at the American Congress of Obstetricians and Gynecologists (ACOG). Nashville, TN – May 3-6, 2019.

Gibson K, Cregger M, **Pratt K**, Karr M, Martin J, Welge M, Bushell C, Zhu R, Auvil L, Miao R, Diaz-Sylvester P, Groesch K, Badger T, Ghareeb A, Wilson T, Brard L, Braundmeier-Fleming A. **"Microbial Analysis of Peritoneal Fluid as a Screening Tool for Epithelial Ovarian Cancer"**. Presented at the American Congress of Obstetricians and Gynecologists (ACOG). Nashville, TN – May 3-6, 2019.

Loret de Mola J, **Nguyen L**, Groesch K, Wilson T, Diaz-Sylvester P, Braundmeier-Fleming A. **"Pre- and Post-Operative Changes in Urinary Estrogen Metabolites in Women with Endometriosis"**. Presented at the Society for Endometriosis and Uterine Disorders. Montreal, Canada – May 16-18, 2019.

Le N, Cregger M, **Nguyen L**, Loret de Mola J, Groesch K, Wilson T, Diaz-Sylvester P, Braundmeier-Fleming A. **"Alteration of Microbial Communities and Immune Populations in Patients with Endometriosis"**. Presented at the American Society for Reproductive Immunology. Grand Rapids, MI – June 12-15, 2019.

Almdale A, Ghareeb A, Wilson T, Groesch K, Diaz-Sylvester P, Christensen A, Delfino K, Unal E, Younkin C. **"Vitamin D Deficiency and Its Implications on Intrauterine Growth Restriction (IUGR)"**. Presented at the Society for Pediatric and Perinatal Epidemiological Research. Minneapolis, MN – June 17-18, 2019.

Orthopaedics

Beason AM, Koehler RJ, Sanders RA, Rode BE, Menge T, McCullough K, Glass N, Hettrich C, Cox CL. Surgeon Agreement on the Presence of Instability Associate Pathology on Shoulder Imaging Studies. Presentation by Charles Cox at the Southern Orthopaedic Association 35th Annual Meeting: Palm Beach, FL. 13 July 2018.

Horberg JV, Church D, **Graham RD**, Stumpf M, **Allan DG**. **Prosthetic Joint Infection after Isolated Tibial Polyethylene Exchange for Aseptic Instability**. Presented at: Midwest OREF April 2019 Chicago, Illinois

Beason AM, Hitt C, Ketchum J, Rogers H, Sanfey H. **Verification of Proficiency in Basic Skills for PGY-I Surgical Residents: 10-Year Update**. Presented by Austin Beason as a Quick Shot Presentation at the 2019 Association of Program Directors in Surgery Annual Meeting: Chicago, IL. 25 April 2019.

Graham RD, Innis C, **Horberg JV**, Stevens, B. **Gastrocnemius Recession for Non-Insertional Achilles Tendinopathy**. Presented at: American Orthopaedic Foot & Ankle Society July 2018 Boston, Massachusetts

Horberg JV, Lobrano C, **Graham RD**, Ridge I, Allan DG. **Staged Total Hip Arthroplasty: A Novel Technique in Managing Pelvic Discontinuity**. Presented at: Mid-American Orthopaedic Association April 2019 Miramar Beach, Florida

Horberg JV, **O'Rourke RJ**, McHale K. **Continued Slip after Internal Fixation for Slipped Capital Femoral Epiphysis: Reasons for the Phenomenon**. Presented at: Virginia Orthopaedic Society Annual Meeting May 2019 Washington, DC

Otolaryngology

Ezeilo NY, **Wing S**. Assessing the performance of Afirma Gene Expression Classifier in predicting the risk of malignancy in indeterminate thyroid nodules, AHNS-COSM Annual Meeting. 2019 May; Austin, TX.

Hunter BN. Impact of Otolaryngology PGY-1 Curriculum Changes on Resident Operative Experience. Triological Society-COSM Annual Meeting. 2019 May; Austin, TX

Chen B. Incidence of second primary neoplasms among cancer survivors in the United States, 2000 through 2015. ASCO Annual Meeting. 2019 Jun; Chicago, IL

Pediatrics

Komeswaran K. "Implementation of an antibiotic protocol in Pediatric Intensive Care Unit", SCCM 48th International Congress, San Diego, CA, February 2019

Komeswaran K. "Enteral Feeding for Children with Status Asthmaticus on Bilevel Positive Pressure Ventilation", SCCM 48th International Congress, San Diego, CA, February 2019

Komeswaran K. "Respiratory Therapy Initiated Protocol in the Management of Status Asthmaticus", SCCM 48th International Congress, San Diego, CA, February 2019

Komeswaran K. "Hemorrhagic shock in an adolescent secondary to ruptured uterine arteriovenous malformation", SCCM 48th International Congress, San Diego, CA, February 2019

Schweber J. "Presentation of a Pathway Medicated Tachycardia in a 3 month old male". American Pediatric Association Conference, Detroit, MI, March 2019

Emmons Z. "Clinical Relevance of Time to Positive Culture in Coagulase-Negative Staphylococcus Bacteremia" Pediatric Academic Societies Annual Meeting May 2019

Resident/Fellow Presentations

Khanal A. Intravenous fluids weaning algorithm in hospitalized children. American Academy of Pediatrics National Conference and Exhibition, Section on Hospital Medicine. Orlando, FL. November 2-6, 2018. (Status: Submitted)

Khanal A. NSTEMI due to Coronary Vasospasm in a teenager with remote Kawasaki disease with normal coronaries. American Academy of Pediatrics National Conference and Exhibition, Section on Pediatric Cardiology. Orlando, FL. November 2-6, 2018. (Status: Submitted)

Khanal A. Acute myocardial infarction due to transient coronary artery vasospasm years after Kawasaki disease with normal coronaries. Pediatric Hospital Medicine (PHM) Conference. Atlanta, July 21-24, 2018.

Khanal A. Vanishing Brain Tumor- a case report. Academic Pediatric Association, Region V Spring Conference, Chicago, March 2, 2018.

Plastic Surgery

Daugherty T. "Potential Mechanism of Skin Improvement in Radiation Wounds Following Fat Grafting: The Fate of Adipose Derived Stem Cells and Role of Stromal Vascular Fraction". American Society for Reconstructive Microsurgery, Palm Desert, CA. 2019 February. Poster

Daugherty T. "The Mechanism of Skin Improvement in Radiation Wounds Following Fat Grafting: The Fate of Adipose Derived Stem Cells and Role of Stromal Vascular Fraction". Midwestern Association of Plastic Surgeons Annual Scientific Meeting, Lake Geneva, WI. 2019 May. 2nd Place. Podium Presentation

Psychiatry

Baloch T, Cudjoe N, Hoffman A, Bennett J, "Cyclops Hallucinations in a Patient with Bilateral Occipital Love Strokes and Cataracts on Gabapentin." American Neuropsychiatric Association Conference (Chicago, March 2019).

Bryant M, Datey-Chakrabarty A, Shrestha Sa. "Cognitive Impairments in Self-induced Anoxic Brain Injury." American Neuropsychiatric Association Conference (Chicago, March 2019).

Chakrabarty A, Black E. "OCD following Cerebellar Tumor Resection: A Case Report and Understanding the Role of the Cerebellum in Psychiatry." American Psychiatry Association Annual Meeting (San Francisco, May 2019)

Shah R, Abbot N, Baloch T, Wolf K, "The Opioid Epidemic: Saving Lives by Educating Prescribers" American Psychiatric Association Annual Conference (San Francisco, May 2019)

Pulmonary - See also Internal Medicine

Nayeemuddin F, Ullah S, Kyaw P, Sreedhar R. Isolated Pseudotumor, an Initial Presentation of Granulomatosis with Polyangiitis, American Thoracic Society Poster Presentation May 2019, Dallas TX

Radiology

Bauer C, **Ryan D.** The Cerebellum as a Tinnitus Modulator in Humans. Abstract at the China National Convention. Beijing China. September 19, 2018

Sports Medicine – Carbondale

Ketter C, and **Schonewolf S** Poster, Anterior Thigh Mass in high school football player at AMSSM National Conference, April 20, 2019.

Sports Medicine - Quincy

Havermale GP, Higgins M, **Choudhury D,** Miller-Spears EM, Daniels JM. "YIPS? Softball pitcher with unilateral tremor." Poster presentation at AMSSM Annual Meeting. Houston, TX. April 2019.

Surgery

Khan A, Taylor, Zahnd, Ganai. Gastrointestinal Cancer Incidence and Trends in United States Rural and Urban Populations. Presented at DDW 2019 May 18, 2019, San Diego, CA

Shackleton, Knight, Wietfeldt MD, N Engelking RN, J Thiele MD, J Rakinic MD. Incidence of adenoma in normal risk patients younger than 50 higher than previously reported. Presented at Ohio Valley Society of Colorectal Surgery, April 27, 2019

Feimster, Mellinger, Ganai, Scaife. Determinants of 90-day readmission following ventral hernia repair with and without myocutaneous flap reconstruction. Presented at SAGES, April 3, 2019 Baltimore, MD

MacKinney, Smith M, O'Malley, Stumpf, Ganai. Unintended Consequences of a VTE Prophylaxis Order Set for Trauma Patients. Presented at Academic Surgical Congress February 7, 2019, Houston, TX

Knight S, Scaife S, Mellinger JD, Ganai S. Cost-effectiveness of Index Treatment Strategies for Gallstone Pancreatitis. Presented at Annual Academic Surgical Congress February 7, 2019, Houston, TX

Feimster JW, Knight SWE, Boehler ML, Schwind CJ, Han H, Kim RH. Effective Resident Oral Case Presentation Skills During Surgical Consultations. Presented at Annual Academic Surgical Congress February 5, 2019 Houston, TX

Tehrani N, Rejowski, Barkmeier. "Occult Myxomatous Embolization in the Setting of Acute Limb Ischemia." Presented at Midwest Vascular Surgical Society, September 13, 2018, St. Louis, MO

Urology

Sadowski D – Medicare Patients Less Likely to undergo penile Prosthesis Implantation After radical Cystectomy, SMSNA: November 8-11, 2018, Miami, FL

Ring J– Long Term Complete Outcomes of Concurrent Tachosil Grafting with Inflatable Penile Prosthesis Placement. SMSNA: November 8-11, 2018, Miami, FL

Holland B– A Perspective Study to Examine the Association of the Urinary and Fecal Microbiota with Lower Urinary Tract Symptoms Using 16sRNA Gene Analysis., AUA Annual Meeting: May 3-6 2019, Chicago, IL

Vascular

Naddaf A, Hasanadka R, Williams S, Hood D, Hodgson K. E-Poster "Predictors of Groin Access Major Complications: A 10 Year Retrospective Review" Society for Clinical Vascular Surgery – March 18, 2019

Resident/Fellow Research

RESEARCH

Dermatology

Berry, Blaise, Bowers, Buescher, Larson, Minielly, Schnietz, Song (Yan), Parker. A Multicenter, Open Registry of Patients with Psoriasis Who Are Candidates for Systemic Therapy Including Biologics

Berry, Blaise, Bowers, Buescher, Larson, Minielly, Schnietz, Song (Yan), Parker, Wilson. A Multi-Center, Randomized, Double-Blind, Placebo- and Active Comparator-Controlled Phase 3 Study with Randomized Withdrawal and Retreatment to Evaluate the Efficacy and Safety of BMS-986165 in Subjects with Moderate-to-Severe Plaque Psoriasis

Berry, Blaise, Bowers, Buescher, Konopka (added in July), Larson, Minielly, Schnietz, Song (Yan), Parker. Corrona Psoriasis (PSO) Registry

Berry, Blaise, Bowers, Buescher, Larson, Minielly, Schnietz, Song (Yan), Parker, Wilson. A Dose-Ranging, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of Tezepelumab Alone or Combined With Topical Corticosteroids in Moderate-to-Severe Atopic Dermatitis

Berry, Blaise, Bowers, Buescher, Larson, Minielly, Schnietz, Song (Yan), Parker, Wilson. A Phase 3 Randomized, Double-Blind, Double-Dummy, Placebo-Controlled, Parallel Group, Multi-Center Study Investigating the Efficacy and Safety of PF-04965842 and Dupilumab in Comparison with Placebo in Adult Subjects on Background Topical Therapy, with Moderate to Severe Atopic Dermatitis

Berry, Blaise, Bowers, Buescher, Conlon, Larson, Minielly, Schnietz, Song (Yan), Parker, Wilson. A Phase 3, Randomized, Double-Blind, Placebo-Controlled, Multi-Center Study Investigating the Efficacy and Safety of PF-04965842 Co-administered with Background Topical Therapy in Adolescent Participants 12 to <18 Years of Age with Moderate-to-Severe Atopic Dermatitis

Endocrinology

Williams V, Tarabichi U, Ansari MJ, Abdelkarim J, and Jakoby M. 18-271: Impact of Perioperative Dexamethasone on Glycemic Control and Clinical Outcomes in Patients with Type 2 Diabetes Mellitus Undergoing Total Hip Arthroplasty

Ansari MJ, Kanta R, Williams V, Abdelkarim J, Montes-Corkery N, and Jakoby M. 19-384: Adherence to a hospital hypoglycemia protocol and impact on glycemic control.

Infectious Disease

Koirala J, **Chua F, Pervin N**– Memorial Medical Center Foundation Grant (2019 – 2020): Antibiotics Synergy Testing Against XDR/MDR Pseudomonas and Acinetobacter (\$10,131) [J. Koirala PI] [F. Chua and N. Pervin Co-Investigators]

Koirala J, Sundareshan V, Waqar S, **Chua F, Pervin N**– Expanded Access IND Program to Provide Stamaril Vaccine to Persons in the United States for Vaccination Against Yellow Fever. [J. Koirala PI] [Sundareshan, Waqar, Chua, and Pervin Co-Investigators]

Sundareshan V, **Chua F, Koirala J** – A Prospective, Randomized, Double-Blind, Multicenter, Phase 3 Study Assess the Safety and Efficacy of Intravenous Ceftolozane/Tazobactam Compared with Meropenem in Adult Patients with Ventilator-Associated Nosocomial Pneumonia [Sundareshan, Vidya PI] [Koirala, Janak Co-Investigator] : closed

Internal Medicine

Bhandari B. Esmolol vs. Diltiazem for rate control in patients with Atrial Fibrillation with RVR Retrospective study that is approved by IRB where we are studying the timing of successful rate control in patients with Afib RVR who received esmolol vs diltiazem. Currently collecting data for the project.

Neurology

Fatima Z, Gilchrist J: “No Touch” Period 24 Hours Post t-PA Infusion. IRB Protocol, approved June 8, 2018 and expires April 2, 2020.

Jahangir N, Siddiqui F: “Endovascular Treatment for Acute Ischemic Stroke Secondary to Distal Vessel Occlusion.” IRB Protocol, approved January 5, 2017, expires March 6, 2020.

Ibrahim F, Murr N, Al Sawaf A: The SIU Neuroscience Institute Epilepsy Center Clinical Registry. Grant Pending: Approved December 7, 2018.

Siddiqui F, **Jahangir N, Lanzotti N.** Using Already Validated Ischemic Stroke Outcome Prediction Tools to Predict Long-Term Patient Outcomes when Utilizing Mechanical Thrombectomy to Treat Ischemic Stroke. Approved March 6, 2019, Expires March 6, 2020.

Ume K, Abou Chaar W, Siddiqui F: Yield of Transthoracic Echocardiogram (TTE) in Acute Ischemic Lacunar Strokes. Approved February 21, 2018, expires January 5, 2020.

Ume K, Burke R, Muehle C, Siddiqui F. Identifying Potential Risk Factors for Unsuccessful Mechanical Thrombectomy in Acute Ischemic Stroke. Approved July 25, 2018, expires July 25, 2019.

Allam H, **Abbas A:** Is elevated troponin level at initial presentation associated with an increased risk of symptomatic intracerebral hemorrhage? Approved February 18, 2019, expired February 18, 2020.

OB/GYN

Abrams R, **Pratt K.** Amniotic Fluid Index (AFI) vs. Maximum Vertical Pocket (MVP) for the Assessment of Oligohydramnios (IRB# 17-024)

Brard L, **Pratt K.** Biomarkers for Endometrial and Ovarian Cancer (IRB# 16-493)

Brard L, **Hyon K.** Modifiable Factors Associated with Endometrial and Cervical Cancer Disparities in Downstate Illinois (IRB# 16-460)

Brard L, **Hyon K.** Addressing Rural Cancer Health Disparities: A Siteman Cancer Center-SIU School of Medicine Partnership (IRB# 15-359)

Braundmeier-Fleming A, **Palencia L, Nguyen L.** Endometriosis and the Microbiome (IRB# 14-220)

Braundmeier-Fleming A, **Gong J, Addo J.** Preterm Birth and the Microbiome (IRB# 14-185)

Garza-Cavazos A, **Gong J**. Management of Adnexal Masses in the Pediatric/Adolescent Population: A Review (IRB# 11-150)

Loret de Mola JR, **Palencia L**. Diabetes, Prenatal Depression and Self-rated health: Exploring the mediating role of self-efficacy (IRB# 17-098)

Martin JA, **Hyon K, Almdale A**. Addressing Unmet Basic Needs to Improve Colposcopy Adherence among Women with an Abnormal Pap (IRB# 17-105)

Nelson E, **Drury B**. Knowledge Assessment of the Risks of Cigarette Smoking and Exposure during Pregnancy (IRB# 17-022)

Nelson E, **Swale L**. Assessment of a Sexual Health Curriculum for High School Students delivered by Ob/Gyn Residents (IRB# 18-189)

Soltys S, **Diebold T**. Is Perinatal Pitocin Exposure Associated with Autism Spectrum Disorders? (IRB# 15-324)

Younkin C, **Almdale A**. Vitamin D Deficiency and Its Implications on the Fetus (IRB# 17-080)

Zeino Y, **Battley L**. Prophylactic Salpingectomy Analysis: A Risk Reduction Procedure for Ovarian Cancer (IRB# 17-104)

PI: Brard L, Co-I: **Hyon K**, "Addressing Rural Cancer Health Disparities: A Siteman Cancer Center-SIU School of Medicine Partnership" Agency: NIH, P20, Awarded: October 1, 2015

PIs: Braundmeier Fleming A, Brard L, Co-Is: Kendall K, **Pratt K**, "Machine Learning Approach for Early Detection and Individualized Treatment of Ovarian Cancer", Agency: Simmons Cancer Institute, Team Science Grant, Awarded: July 1, 2017

PI: Hayashi K, Co-Is: Loret de Mola, **Palencia L**, "Development of New Therapeutic Strategies for Endometriosis", Agency/Date: NIH, R21, Awarded September 1, 2017

PIs: Braundmeier Fleming A, Brard L, Co-Is: Semaan, Kendall K, **Pratt K**, "A Quantitative, Systems Biology, Multi-Omic Approach to Diagnose Gynecologic Cancers", Agency: Oak Ridge National Laboratory, LDRD, Awarded: November 20, 2017

PI: Lara-Cinisomo L, Co-Is: Loret de Mola, **Palencia L**, "Diabetes, Prenatal Depression and Self-rated Health: Exploring the Mediating Role of Self-efficacy," Agency: Center on Health, Aging, and Disability (CHAD), Awarded: 04/03/2017

PI: Kuroki L (Wash U), Co-Is: Semaan, Martin, **Hyon K, Almdale A**, "Addressing Unmet Basic Needs to Improve Colposcopy Adherence among Women with an Abnormal Pap", Agency: NIH, P20/P4 Pilot Award, Awarded: September 1, 2017

Orthopaedics

Horberg JV, Graham RD, Mikesell T, Allan DG. Assessing the Weight Bearing Surface of Dysplastic Acetabulae: The Sourcil Index.

Horberg JV, Lobrano, C, Graham RD, Beason AM, Ridge I, Allan DG. Staged Total Hip Arthroplasty: A Novel Technique in Managing Pelvic Discontinuity.

Horberg JV, Tapscott DC, Enright D, Allan DG. Morphology of the Greater Trochanter: An Assessment of Anatomic Variation and Canal Overhang

Horberg JV, Kurcz BP, Mayfield AM, Beason AM, Allan DG. Documented Penicillin Allergies Should Not Preclude Use of Pre-Operative Cefazolin in Hip and Knee Arthroplasty

Horberg JV, Shervin D, Graham RD, Stumpf M, Allan DG. Prosthetic Joint Infection after Polyethylene Exchange for Accelerated or Uneven Polyethylene Wear

Horberg JV, Danielsky P, Enright D, Allan DG. Short versus Conventional Stems in Anterior Total Hip Arthroplasty

Graham RD, Allan DG. Stabilizing Euglycemia in Diabetic Ketoacidosis: retrospective Comparison of Full vs Reduced – rate Insulin Infusion

Mitchelson AJ, Gabriel KR. Traumatic hip Subluxation/Dislocation and Labral Tear with Spontaneous Eccentric Reduction: A Case Report.

Wilson CJ, Beason AM. Fusion rate of 1-2 intermetatarsal arthrodesis in the modified Lapidus procedure for the treatment of Hallux Valgus

Wilson, CJ. Pedicle Screw Contamination During Spine Surgery

Wilson CJ, Gabriel KR. The use of Betadine, Hydrogen Peroxide and Vancomycin in Decreasing Time Dependent Pedicle Screw Contamination

Beason AM, Mailey B. Evaluation of the Anterior Scalene Muscle Block in the Diagnosis of Thoracic Outlet Syndrome and as a Predictor of Post-Operative Improvement

Beason AM, Hitt C. Verification of Proficiency in Basic Skills for Postgraduate Year 1 Surgical Residents.

Beason AM, Cagle PJ. Interobserver and Intraobserver Reliability of the Walch Classification in Magnetic Resonance Shoulder Imaging

Beason AM, Saleh K. A Retrospective Post-Operative Radiographic Assessment of a Posterior-Stabilized Knee Prosthesis in Total Knee Arthroplasty

Pediatrics

Basnet S, **Khanal A**. Effects of Potassium Infusions on Serum Levels in Children During Treatment of Diabetic Ketoacidosis

Brandt G, **Malhotra M**. To Assess Self-Awareness of Sickle Cell Status Among African American and Mixed Race Adolescents

Patel N, **Volle M**, Modeling SIDS Prevention Safety Measures on the Pediatric Inpatient Unit

Basnet S, **Komeswaran K**. Antimicrobial Conversion Policy

Basnet S, **Khanal A**. Impact of Respiratory Therapists Driven Albuterol Weaning Protocol on Length of Hospital Stay and Duration of Weaning In Children with Acute Severe Asthma (Status Asthmaticus) I

Capriolo G, **Lorenzo J**. Intensive Care Unit (PICU) and Seen by Pediatric Pulmonology

Resident/Fellow Research

Ghawi H, **El Jerbi A**. Prevalence of Intracardiac Echogenic Foci in Fetuses Exposed to THC

Tripathy S, **Khanal A**. Fluid Stewardship Quality Improvement Project

Patterson J, **Malhotra M, Lorenzo J**. Improving Parental Understanding of Well Child Visits in Children Aged 0-48 Months by Educating Families

Patterson J, Malhotra M, Lorenzo J. Improving Continuity Clinic Follow-up for Routine Well Child Checks for ages 0-24 months by Emphasizing Structured Family Awareness and Resident Education

Saleh E, Schweber J. Implementation of Pediatric Intravenous to oral/enteral

Majcina R, **Hulyalkar M**. Improving accuracy and reliability of blood pressure measurements for monitoring and screening of HTN inpatient at SJH

Patel N, **Lorenzo J**. Retrospective review of pediatric patients diagnosed with Postural Tachycardia Syndrome who received Propranolol vs. conservative management

Brandt G, **Malhotra M**. The Therapeutic Effects of Parenteral Iron Following Failure of Oral Iron Supplementation for the Treatment of Iron Deficiency in Adolescent Females

Chaudhary S, **Goeckner J**. Rapid Strep Tests Used in Children Less than 3 Years Old

Ghawi H, Kulsum-Meccì N, **Anudu A**, Murphy M, Stark C. Evaluation of changes in left ventricular structure, mass, and function with established diagnosis of hypertension in children using echocardiography

Ghawi H, **Goeckner J**, Frey A. Investigating therapeutic options for pediatric patients with low HDL levels -

Majjiga V, **Emmons Z**. Clinical relevance of time to positivity of Coagulase negative staphylococcus in blood culture

Ahamed F, **Berg C**. Incidence and Severity of Hyperbilirubinemia in Neonates Treated with Therapeutic Hypothermia

Tripathy S, **Miller G**. Evaluate how students score on their pediatric CCX cases after their third year clerkship and with their cumulative/senior CCX

Nimavat D, **El Jerbi A**. Universal Umbilical Cord Gas Analysis: What happens to the result?

Miner M, **Lukert N**. Qualitative Assessment of Patient's Choice to Be Seen in an Urgent Care Setting vs. Resident Ambulatory Clinic at SIU Pediatrics

Johnson M, **Miller J**. Airway Collapse on Pulmonary Function Tests in Those with Asthma

Porayette P, **Bernales A**. KUB Post Bowel Cleanout is it Necessary

Patel N, **Mosleh E**. Inpatient Consults: Introducing an Institution-Specific Consult Tool to Increase Efficiency and Confidence among Pediatric Residents and Medical Students

Ghawi H, **Anudu A**. The Effect of Atrial Septic Defects on the Development of Bronchopulmonary Dysplasia in Premature Infants

Basnet S, **Khanal A**. Respiratory Therapists Driven Asthma Weaning Protocol on Length of Stay and Duration of Wean in Critically ill children with Acute Severe Asthma Exacerbation: A Retrospective Study

Basnet S, **Khanal A**. Effects of potassium supplementation on serial potassium levels in children with diabetic ketoacidosis.

Plastic Surgery

Ruebhausen M, Neumeister M. Bioengineered Skin: An Approach to Heal Full Thickness Skin Defects.

Kottwitz M, Mailey B. Evaluation of Hyperbaric Oxygen Treatment Effects on Peripheral Nerve Regeneration. \$14, 125.

Daugherty T, Neumeister M. New Antimicrobial Agents to Eradicate Infection.

Daugherty T, Neumeister M, Sommer N. Adipose Derived Stem Cells Differentiate Into Epithelial Stem Cells: A Possible Mechanism for Skin Improvement in Radiation and Burns.

Daugherty T, Neumeister M. Anatomic Cadaver Study of Nerves in the Hand for Targeted Muscle Reinnervation for Prophylactic Neuroma Prevention to Decrease Opioid Use.

Winters J, Neumeister M. Heterotopic Ossification: Further Defining Cells of Origin.

Olla D, Neumeister M. Heterotopic Ossification: Further Defining Cells of Origin.

Bruce W, Neumeister M. New Antimicrobial Agents to Eradicate Infection

Psychiatry

Wolf KM, Ottino B, Takahashi A, **Chakrabarty A**, Jensen G†, Nelson C**. "Project ECHO (Extension for Community Healthcare Outcomes)." The SIU-IHI Opioid ECHO Hub is part of the Illinois Health and Hospital Association (IHA), Michigan Health & Hospital Association (MHA), and Wisconsin Hospital Association (WHA) Great Lakes Partners for Patients Initiative. P.I.: Kari Wolf, MD

Bennett J, PI, Shrestha S Co-P, Alluri V Co-PI, **Jia S**, Co-PI, Janssen Pharmaceutical study on "A Study of Intranasal Esketamine Plus an Oral Antidepressant for Relapse Prevention in Adult Participants With Treatment-resistant Depression"

Surgery

Khan A, Taylor, Zahnd, Ganai. Gastrointestinal Cancer Incidence and Trends in United States Rural and Urban Populations.

Shackleton, Knight, Wietfeldt MD, N Engelking RN, J Thiele MD, J Rakinic MD. Incidence of adenoma in normal risk patients younger than 50 higher than previously reported.

Shackleton, Knight, Pacheco, Rakinic, Thiele, Wietfeldt, Engleking. Colorectal cancer screening in average risk patients younger than 50, is it justified?

Smith, Kim, Cianciolo. What's in an EPA? An Exploration of Entrustment Decision Making in General Surgery.

Knight, S, Huang E, Slama E, Guetter C, Hambleton C, Moller M, Crandall M. Telesurgery 2019: Consulting, Mentoring, Robotics and More.

Urology

Holland B, Dynda, The Impact of Non-Disease Related Factors on Survival in Patients with Penile Cancer. Exempt. 14-153.

Holland B, Dynda, The Impact of Patient, Disease, and Treatment Related Factors on Survival in Patients with Adrenocortical Carcinoma. Exempt. 15-279.

Sadowski D, El-Zawahry, Warner. Intracorporeal Versus Extracorporeal Urinary Diversion with Robotic-Assisted Radical Cystectomy: A Retrospective Review. Expedited. 15-361.

Ring J, Sadowski S, Dynda (Kohler). Scrotal pathology review and cost analysis. Non-human subject determination. 15-247

Hart K, Baas W, Holland B, Dynda. Surgeon Parasthesia during robotics surgery. Non-human subject determination. 19-365

Baas W, Mathews, Dynda. Penile Length in pediatric urology. Expedited. 17-103.

Sadowski D, McVary. National vs local cancer management and outcomes: A comparison of SIU registries against the SEER-Medicare data set. Exempt. 14-004

Sadowski D, McVary, Dynda. Comparing a Local SIU Cohort of Men on Active Surveillance with Localized Prostate Cancer to a National Sample. Exempt. 14-009.

Petrosian R, McVary, Dynda, El-Zawahry, Helo, Siddique, Adams, Evans, Sanchez. Myrbetriq™ (Mirabegron) to Improve Disordered Sleep in Subjects with Lower Urinary Tract Symptoms (LUTS). Full Board. 14-184-B

Sadowski D, McVary, Dynda. INVESTIGATING THE ETIOLOGY OF KIDNEY CANCER DISPARITIES IN ILLINOIS. Non-human research determination. 15-350

Davis M, McVary, Dynda, Delfino. Retrospective Review of the Southern Illinois University School of Medicine Experience with Multiparametric Magnetic Resonance Imaging Guided Targeted Biopsy of the prostate. Expedited. 15-326.

Holland B, McVary, Dynda. Rezum system vs. Medical Therapy (MTOPS) to treat symptomatic LUTS: A Data Analysis. Non-human research determination. 16-567

Holland B, Tadros, Dynda, El-Zawahry, Delfino. Urinary Retention Improvement from Minimally Invasive Prostate Convective Water Vapor Energy Ablation (Rezum). Expedited. 16-583.

Holland B, Sadowski D, Schwartz, Dynda, Kottwitz M. EEG Activity and Attention During Robotic Surgery. Expedited. 18-838.

Davis M, Schwartz, Fiuk J, Dynda. Novel Use of Dual Energy CT in Evaluation and Management of Renal Masses and Cysts. Expedited. 15-358
Petrosian R, Holland B, Tadros, Dynda. Prevalence of hypogonadism in resident physicians. Expedited. 18-356

Vascular

PI - Hodgson, Sub-I - Hood, Participating Clinicians – **Caldwell, Naddaf.** Lombard Medical, Prospective Aneurysm Trial: High Angle Aorfix Bifurcated Stent Graft (Pythagoras Study)

PI - Hodgson, Sub-I's - Hood and Hasanadka, Participating Clinicians - **Choudry, Naddaf, Nanavati, Zhang.** W.L. Gore & Associates, Inc., Assessment of the GORE® EXCLUDER® Conformable AAA Endoprosthesis in the Treatment of Abdominal Aortic Aneurysms: AAA 13-03

PI - Hood, Sub-I's – Hodgson, Hasanadka, Participating Clinicians - **Choudry, Naddaf, Nanavati, Zhang** Bayer Healthcare Pharmaceuticals Inc., An international, multicenter, randomized, double-blind, placebo-controlled phase 3 trial investigating the efficacy and safety of rivaroxaban to reduce the risk of major thrombotic vascular events in patients with symptomatic peripheral artery disease undergoing lower extremity revascularization procedures.

PI - Hasanadka, Resident – **Nanavati.** New Algorithm for CT Surveillance Following EVAR Based on Institutional Outcomes

PI - Hasanadka, Residents - **Naddaf and Zhang.** Predictors of Common Femoral Artery Access Major Complications

PI - Hasanadka, Resident-**Zhang.** Comparison of Venous Thromboembolism with Prophylactic Inferior Vena Cava Filter versus none in High Risk Trauma Patients

PI - Hasanadka, Resident-**Nanavati.** An evaluation of link between discharge disposition and increased morbidity and mortality for trans-femoral and trans-tibial amputations in ACS

PI - Hasanadka, Residents - **Naddaf, Zhang.** Outcomes of Three Different Anesthesia Modalities in Hemodialysis Access Surgery

PI - Hood, Resident – **Choudry.** Benefits of Intraoperative Vein Mapping in Patients Requiring Long-term Hemodialysis

PI - Hood, Resident – **Choudry.** Infrainguinal revascularization: geographical disparities in intervention





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