



2015-2016 GME Annual Report

 *SIU School of Medicine*

Chair's Message

In recognition of the enthusiasm and excellent work on the part of all of our trainees, program directors, faculty, staff and hospital partners, I am very pleased to present the 2015-2016 GME Annual Report. Our programs, faculty and residents continue to make us proud as they demonstrate excellence in education and patient care and help us fulfill 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.



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

Graduate Medical Education Committee

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 Residency Review Committees. The chair of the committee is the Associate Dean for Graduate Medical Education. Members of the committee include core residency program directors, hospital representatives, two faculty members at large, up to two fellowship program directors at large, four to six residents elected by peers, President of the House Staff Association, one program coordinator elected by peers, and SIU legal counsel or designee.

FIGURE 1: GMEC MEMBERS

Dorcas Adaramola, MD	Resident	Kristen Leadbetter, MD	Faculty
Richard Austin, MD	Resident	Paula Mackrides, DO	AOA Director
Jonathan Balagna, MD	Resident	Gurpreet Mander, MD	CMO, HSHS St. John's
Carol Bauer, MD	Program Director	Christopher McDowell, MD	Program Director
John Becker, MD	Program Director	John Mellinger, MD	Program Director
Careyana Brenham, MD	Program Director	Thomas Miller, MD	Program Director
Karen Broquet, MD	Chair	Michelle Miner, MD	Program Director
Lucinda Buescher, MD	Program Director	Deanna Mool, JD	Legal Counsel
Sara Cameron	SJH Administrator	Nicholas Mouw, MD	Resident
Jeff Cozzens, MD	Program Director	Najib Murr, MD	Program Director
Sandra Ettema, MD	Faculty	Erica Nelson, MD	Program Director
Nathalie Foray, DO	Resident	Daniel Ryan, MD	Resident
Keith Gabriel, MD	Program Director	Ryan Schmucker, MD	Resident
Rajesh Govindaiah, MD	CMO, Memorial Med Ctr	Quincy Scott, DO	Program Director
Douglas Hood, MD	Program Director	Laura Shea, MD	Med/Psych Rep
Jessie Junker, MD	Program Director	Santosh Shrestha, MD	Program Director
Tobias Köhler, MD	Program Director	Nicole Sommer, MD	Program Director
Janak Koirala, MD	Fellowship Director	Andrew Varney, MD	Program Director
Harald Lausen, DO	AOA Director	Nicole Workman	Program Coordinator

Graduate Medical Education Committee

FIGURE 2: GMEC ACTIVITIES

OVERVIEW OF GMEC ACTIVITIES 2015-2016		
REVIEW OF PROGRAM PERFORMANCE	INTERNAL REVIEWS	SPECIAL REVIEWS
ACGME Resident Survey	Carbondale Family & Community Medicine	Otolaryngology
ACGME Faculty Survey	Carbondale Sports Medicine	
Duty Hour Compliance	Emergency Medicine	REVISED POLICIES and PROCEDURES
Annual Program Evaluation/ Action Plan	Neurology	Demonstration of Patient Safety Experiences
Accreditation Letters and Citations	Quincy Family & Community Medicine	Off-Site Rotations/ Elective and Required
Transitions of Care Monitoring	Quincy Sports Medicine	Procedures for Collection of Time Records
	Radiology	

GMEC Annual Institutional Goals

IMPROVE CONSISTENCY AND QUALITY OF HANDOFFS ACROSS RESIDENT SERVICES (Carried over from 2014 - 2015)

FIGURE 3: TOC EXPECTATIONS

Transitions of Care (TOC) Expectations		
Elements of effective handoffs:		
"Face to face"	Without interruption	In a structured format/ with standard documents
In a quiet environment	Open for questions/readback	Supervised
Content:		
Patient demographics (i.e. name, age, room)	Attending name	Patient's diagnosis/ problem list
Current medications	Allergies	Code status (DNR or advance directive)
Decision maker status (POA, guardian)	Pending labs/x-ray, etc.	Action plan (if this...then do that)
Follow up for each provider involved in the care of the patient (i.e. primary IP services plus consultants) - for IP to OP/ discharge only	Follow up with primary care provider (if different than primary IP services) - For IP to OP/ discharge only	Other (program or service specific)

Individual programs are accountable to GMEC to ensure that learner handoffs are effective. In addition, the SIU GME Quality Improvement Coordinator periodically audits program handoffs. Traditionally, the feedback from these observations were provided just to the program director. In Fall 2016, the decision was made to add an item on consistency of handoff scheduling to the audit rubric and report findings to GMEC.

GMEC Annual Institutional Goals

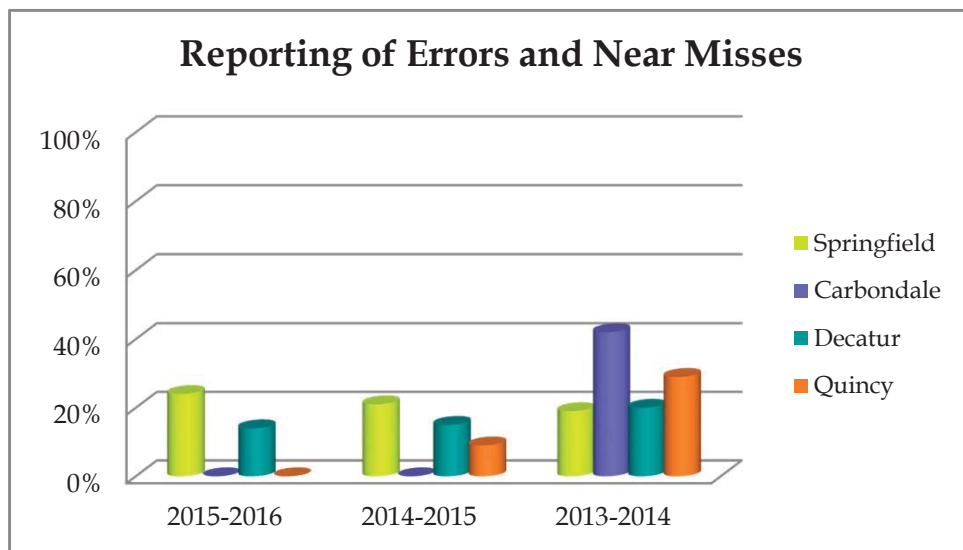
IMPROVE REPORTING OF ERRORS / NEAR MISSES

(carried over from 2014 – 2015)

Residents have two opportunities each year to evaluate various aspects of their training directly to SIU and the ACGME. The ACGME conducts an annual resident survey. The GMEC conducts an annual end of year evaluation for all residents. For 2015-2016, 226 evaluation responses were received from Carbondale, Decatur, Quincy, and Springfield programs for a 67% response rate. Resident input from the SIU end of year evaluations and ACGME resident survey on a variety of training parameters are listed in tables on the following pages.

GMEC set a goal to have 50% of residents report at least one error in any given year. Although we are not yet at that goal, slow progress continues. Our current focus toward this goal is outreach and reinforcement to program directors and faculty about the importance of encouraging and role modeling reporting behavior and to hospital quality personnel about the importance of feedback on reported errors.

FIGURE 4: REPORTING OF ERRORS AND NEAR MISSES



PROMOTE AN OUTSTANDING LEARNING AND WORK CLIMATE

(carried over from 2014 – 2015)

We have focused a great deal of energy on improving our learning and work climate for the past two years. Behavioral standards have been delineated and disseminated via multiple routes. The instrument used for residents to evaluate their individual faculty was revised to include specific behaviors associated with a positive learning climate. Multiple programs are now having this evaluation administered via the Office of Residency Affairs, to increase resident confidence regarding confidentiality.

The benchmark of a healthy learning or work climate is an atmosphere where individuals feel safe and comfortable expressing opinions or raising concerns. We have opted to track this item as one outcome measure for our efforts. As you can see from Figure 5 on the following page, we still have considerable work to do. Although much of the learning climate rests on individual learner-supervisor interactions, we believe that our efforts are being impacted by factors external to GME (faculty workload, massive changes in the structure and organization of some of our major services and sequela of the Illinois budget crisis). Our work continues.

FIGURE 5: LEARNING CLIMATE COMPARISON

Academic Year	SIU End of Year Survey					ACGME Resident Survey	
	Ability to express concerns without fear					Residents can raise concerns without fear	
	2014-2015		2015-2016		% Δ in G/E	2014-2015	2015-2016
% Poor/Fair	% Good/Excellent	% Poor/Fair	% Good/Excellent	SCALE: 1=Very Non-compliant 5=Very Compliant National Mean 4.2			
Dermatology	14	86	0	100	↑	4.8	4.7
Emergency Medicine	8	92	18	82	↓	4.4	4.2
Endocrinology	0	100	0	100		4.5	3.3
FCM - Springfield	43	57	17	83	↑	3.4	3.4
Infectious Disease	0	100	0	100			
Internal Medicine	13	87	0	100	↑	4.2	4.2
Med/Psych	0	100	0	100		4.1	3.7
Neurology	20	80	67	33	↓	3.5	2.5
OB/GYN	0	100	7	93	↓	3.9	4.9
Orthopaedics	20	80	30	60	↓	3.8	3.8
Otolaryngology	29	71	80	20	↓	4.6	4.3
Pediatrics	38	62	38	62		3.6	3.4
Plastic Surgery	0	100	22	78	↓	4.4	4.1
Psychiatry	56	44	40	60	↑	3.3	4.0
Pulmonary	0	100	40	60	↓	4.8	4.0
Radiology	0	100	56	44	↓	4.6	2.8
Surgery	20	80	0	100	↑	3.8	4.5
Urology	14	86	50	50	↓	3.8	3.9
Vascular - Integrated	0	100	0	100		4.5	4.4
AFFILIATE RESIDENCY PROGRAMS							
FCM - Carbondale	14	86	0	100	↑	4.4	4.5
FCM - Decatur	23	77	29	71	↓	4.5	3.9
FCM - Quincy	27	73	23	77	↑	4.5	4.5
Institution - Springfield	19	81	21	79	↓	4.1	4.0

Key: At or above national mean Below national mean

FIGURE 6: LEARNING CLIMATE PEARLS

4 Learning Climate Pearls*	1.	If given instructions by a supervisor to do something in error, learners are less likely to speak up in the presence of:
	-	lack of explicit instruction to speak up or ask questions
	-	supervisor impatience
	-	steep power hierarchy
2.	Residents perception of the power / status differential between themselves and attendings is greater than supervisors.	
3.	A positive learning climate is associated with greater patient safety and learner / team wellbeing.	
4.	Learning is more effective in the absence of fear, shame, or humiliation.	

* Bynum and Goodie Medical Education 2014; 48:1045-1054
 Musselman, et al. Medical Education 2005;39:926-934
 Bould, et al. Can J Anesth March 2015; 62.
 Van Vendeloo, et al. Bone Joint J 2014; 96-B:1133-8

FIGURE 7: LEARNING ENVIRONMENT CHARACTERISTICS & BEHAVIORS

LEARNING ENVIRONMENT	
What does a safe learning environment look like?^	What can individuals do to create an outstanding learning environment?^
Fair and reasonable standards	Set clear and consistent expectations.
Perceived accuracy of performance feedback and assessment	Introductions, goal-setting, address learners by name
Freedom to speak up	Be aware of implicit bias.
Commitment to a common purpose	Be calm, kind, and patient.
Clarity about mission and values	State explicitly and role model that it's ok to not know something.
	Actively encourage learners to speak up / take risks / ask questions and positively reinforce them when they do.
	Show respect for divergent positions.

^Goleman D. Harvard Business Review 2000 Salazar, et. Al. J Am Coll Surg 2014 <http://www.unl.edu/gtahandbook/creating-safe-learning-environment> Stanford Faculty Development Center 2012

GMEC Annual Institutional Goals

CONTINUED EFFORTS REGARDING OVERSIGHT OF SUPERVISION

(carried over from 2014–2015)

Residents are surveyed regularly about their supervision experiences. In response to the question “in the past year have you been placed in a situation or witnessed one of your peers placed in a situation where you believe there was inadequate supervision?”, resident responses have ranged from 13% (2015) to 20% (2014 and 2016). For 2016, we believe that a large number of the responses related to ICU settings. Starting in July 2016, we have drastically reduced the number of PGY1 learners in ICUs and increased the level of supervision for those that remain.

Audits are conducted by the SIU SOM Office of Compliance and Ethics for compliance with supervision standards. To date, five surgical programs have been reviewed with feedback and training provided for the faculty, and an additional two are underway. In addition, we are always looking at ways to improve communication between the chief medical officers (CMOs), SIU HealthCare and our Springfield hospitals to ensure that the appropriate individuals receive timely feedback should supervision issues be identified.

IMPROVE FACULTY SKILLS AND KNOWLEDGE IN PATIENT SAFETY AND HEALTH CARE QUALITY *(new goal)*

Plans are underway to develop and adopt a common set of patient safety and quality learning objectives for all SIU SOM faculty and learners.

2016 Outstanding Coordinator Award



Tina Hartwig, Program Coordinator at Decatur Family & Community Medicine, was nominated for and awarded the 2016 Outstanding Coordinator Award. Ms. Hartwig has been in this role for over eight years.

This will be an annual award sponsored by the Office of Residency Affairs and given to a GME program coordinator. The coordinator must be in this role for a minimum of one year, and must demonstrate a commitment to the mission and behavioral standards of SIU School of Medicine. A committee meets to review the nominations and select an award winner.

The award winner consistently demonstrates the following behaviors:

- provides excellent service to internal and external contacts;
- displays compassion, respect, integrity, and accountability in their work;
- promotes diversity and inclusion;
- seeks continuous learning and improvement opportunities; and
- consistently meets deadlines.

Academic Programs and Accreditation

FIGURE 8: PROGRAM OVERVIEW

ACADEMIC PROGRAM OVERVIEW	
Springfield	Affiliate
282 residents and fellows	53 residents and fellows
17 accredited residency programs	3 accredited residency programs
7 accredited fellowship programs	2 accredited fellowship programs
4 non-accredited fellowships	N/A
3 programs ACGME/AOA accredited	

FIGURE 9: PROGRAM ACCREDITATION STATUS

Program Name	Accreditation Status	First Self-Study Visit
Dermatology	Full	6/2023
Emergency Medicine	Full	9/2022
FCM - Springfield	Full	10/2018
Internal Medicine	Full	10/2020
Med/Psych	N/A	N/A
Neurological Surgery	Full Accreditation without Outcomes	1/2025
Neurology	Full	11/2019
OB/GYN	Full	6/2020
Orthopaedics	Full	1/2022
Otolaryngology	Continued Accreditation with Warning	2/2019
Pediatrics	Full	4/2021
Plastic Surgery	Full	5/2019
Psychiatry	Full	4/2023
Radiology	Full	11/2022
Surgery	Full	2/2024
Urology	Full	6/2020
Vascular Surgery - Integrated	Full	2/2024
Fellowships		
Adult Reconstructive Surgery	Full	1/2022
Carbondale Sports Medicine	Full	6/2018
Child Psychiatry	Full	4/2023
Colon & Rectal Surgery	Probation	3/2019
Endocrinology	Full	10/2020
Hand Surgery	Full	5/2019
Infectious Diseases	Full	10/2020
Pulmonary Medicine	Full	10/2020
Quincy Sports Medicine	Full	8/2019
Affiliate Residency Programs		
FCM - Carbondale	Full	6/2018
FCM - Decatur	Full	10/2018
FCM - Quincy	Full	8/2019
Other		
Institution	Full	10/2026

Resident Recruitment and Orientation

FIGURE 10: RESIDENT RECRUITMENT

Program Name	SIU NRMP/DO Fill Rate	National NRMP Fill Rate [^]	Step I Mean Score Matriculating Residents	National Mean Step I Score Matriculating Residents †		Step II Mean Score Matriculating Residents	National Mean Step II Score Matriculating Residents †		Step III Mean Score Current Residents
				US Seniors	Other		US Seniors	Other	
Dermatology	100%	100.0%	245	249	237	258	257	237	229
Emergency Medicine	100%	99.9%	222	233	233	239	245	242	226
FCM - Springfield	100%	95.2%	213	221	216	226	237	227	204
Internal Medicine	100%	98.8%	223*	233	232	234*	246	238	214
Med/Psych	100%	100.0%	217	N/A	N/A	236	N/A	N/A	208
Neurological Surgery	100%	99.1%	N/A	249	244	N/A	251	246	N/A
Neurology	100%	99.3%	241	231	229	233	243	234	213
OB/GYN	100%	99.4%	215	229	231	240	244	238	210
Orthopaedics	100%	100.0%	240	247	241	248	253	253	214
Otolaryngology	100%	99.3%	230	248	236	245	253	242	229
Pediatrics	100%	99.5%	222	230	228	232	244	237	212
Plastic Surgery	100%	99.3%	230	250	230	231	256	240	218
Psychiatry	100%	99.2%	223	224	219	229	238	228	205
Radiology	33%**	93.4%	215	240	239	228	247	242	218
Surgery	100%	99.8%	240	235	241	238	247	244	216
Urology	100%	N/A	251	N/A	N/A	254	N/A	N/A	215
Vascular - Integrated	100%	100.0%	N/A	239	227	N/A	234	245	220
AFFILIATE RESIDENCY PROGRAMS									
FCM - Carbondale	100%	95.2%	204	221	216	231	237	227	210
FCM - Decatur	100%	95.2%	221	221	216	236	237	227	209
FCM - Quincy	100%	95.2%	215	221	216	229	237	227	225

Minimum passing scores for USMLE Exams:

Step I	192
Step II	209
Step III	196

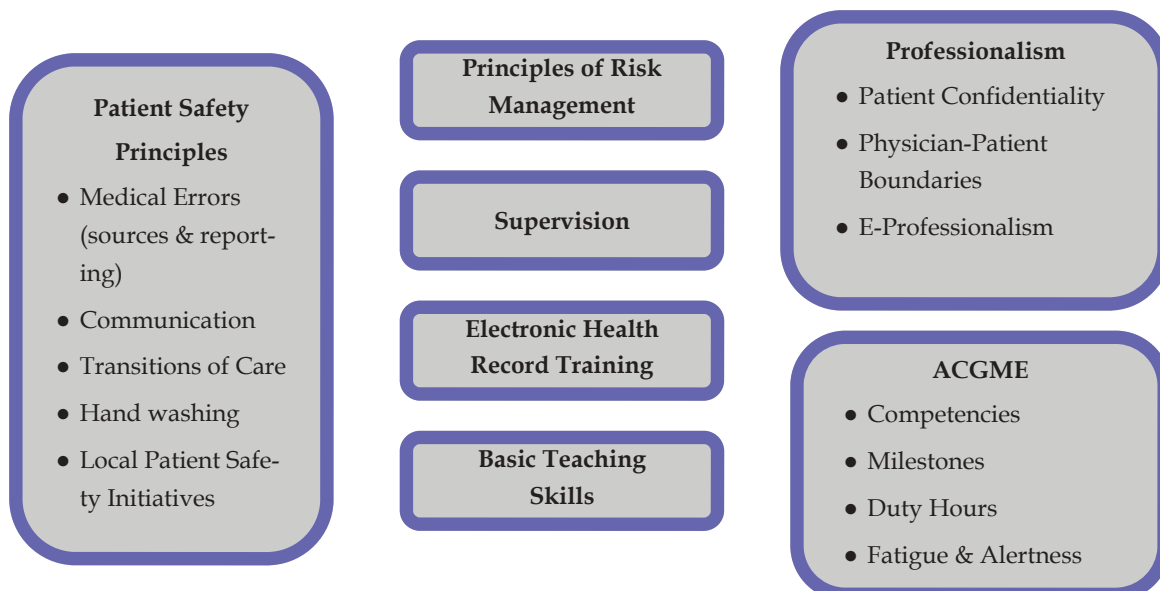
[^]NRMP Results and Data, 2016 Residency Match

†NRMP Charting Outcomes in the Match, September 2016

*Includes Preliminary Medicine resident scores

**Does not include SOAP candidates

FIGURE 11: NEW RESIDENT / FELLOW ORIENTATION OVERVIEW

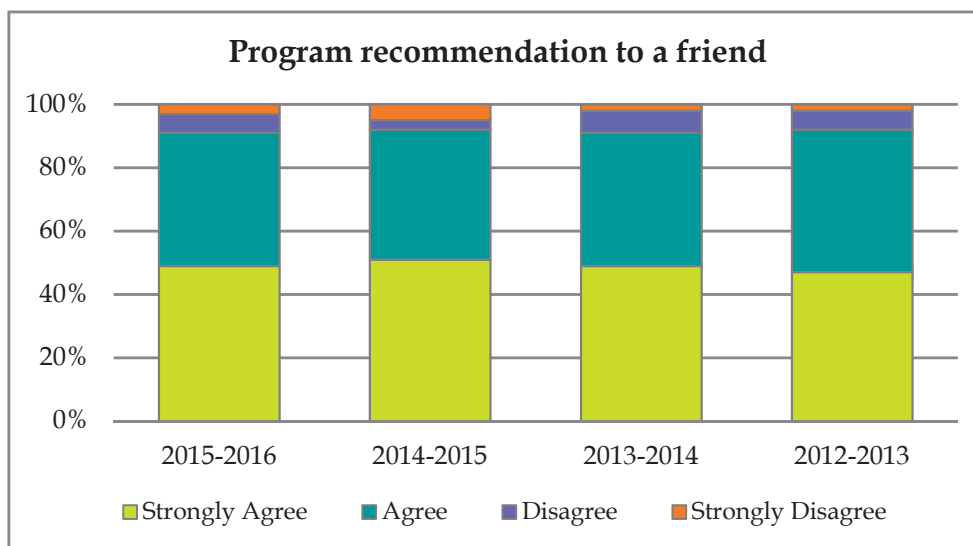


Resident Evaluation of Training

FIGURE 12: RESIDENT EVALUATION OF TRAINING

	Residents' overall evaluation of program										
	SIU End of Year Evaluation						ACGME Resident Survey				
	Your overall satisfaction with the educational environment of your program		I would recommend my residency program to a friend				Overall evaluation of program				
	Number of responses						Percentage of responses				
	Poor/Fair 1-2	Good/Excellent 3-4	Strongly Disagree 1	Disagree 2	Agree 3	Strongly Agree 4	Very Negative	Negative	Neutral	Positive	Very Positive
Dermatology	0	5	0	0	2	3	0%	0%	0%	17%	83%
Emergency Medicine	1	10	0	0	3	8	0%	6%	12%	29%	53%
FCM - Springfield	3	15	0	1	8	9	0%	4%	4%	74%	19%
Internal Medicine	5	29	0	3	13	19	0%	0%	9%	40%	51%
Med/Psych	0	0	0	0	0	1	0%	0%	0%	50%	50%
Neurology	4	5	1	2	6	0	18%	9%	45%	18%	9%
OB/GYN	0	14	0	0	6	8	0%	0%	13%	0%	88%
Orthopaedics	1	9	1	0	3	6	13%	0%	0%	33%	53%
Otolaryngology	2	3	0	2	3	0	0%	0%	22%	11%	67%
Pediatrics	3	10	0	4	6	3	5%	5%	35%	40%	15%
Plastic Surgery	0	9	0	0	2	7	0%	0%	8%	42%	50%
Psychiatry	3	6	1	0	6	3	0%	7%	7%	50%	36%
Radiology	0	9	0	1	4	4	0%	8%	42%	25%	25%
Surgery	0	15	0	0	6	9	0%	0%	15%	30%	55%
Urology	0	4	0	0	3	1	0%	0%	0%	29%	71%
Vascular	0	5	0	0	1	4	0%	0%	0%	20%	80%
AFFILIATE RESIDENCY PROGRAMS											
FCM - Carbondale	0	4	0	0	2	2	8%	0%	0%	23%	69%
FCM - Decatur	4	10	2	0	7	5	13%	0%	7%	60%	20%
FCM - Quincy	1	11	0	0	5	8	0%	0%	6%	12%	82%

FIGURE 13: PROGRAM RECOMMENDATION



Exam Performance

FIGURE 14: EXAM PERFORMANCE

Program	RRC Requirement First Time Pass Rate & Time Frame	RRC Requirement for Percent of Graduates Must Take Exam#	2015-2016	
			Board Pass Rate	
			Part I	Part II
Dermatology	90% of graduates last 4 years	90% from last 4 years must take	100%	
Emergency Medicine	80% of graduates who take last 5 years	No requirement	94%	100%
FCM - Springfield	90% of graduates who take last 5 years	95% from last 5 years must take	88%	
Internal Medicine	80% of graduates who take last 3 years	80% from last 3 years must take	88%	
Med/Psych	See Int Medicine & Psychiatry	See Int Medicine & Psychiatry	100%*	100%**
Neurological Surgery	85% takers written exam last 7 years, 80% of graduates who take oral exam last 7 years	No requirement	N/A	N/A
Neurology	75% graduates who take last 5 years	80% eligible graduates from last 5 years should take	100%	
OB/GYN	80% of graduates who take last 3 years	80% from last 3 years must take	88%	
Orthopaedic Surgery	75% of graduates who take last 5 years	75% should take	100%	95%
Otolaryngology	75% graduates last 5 years	No requirement	100%	
Pediatrics	70% of graduates who take last 5 years	80% from last 5 years should take	74%	
Plastic Surgery	60% of graduates who take last 5 years	No requirement	100%	100%
Psychiatry	70% graduates who take last 3 years	70% from last 3 years should take	92%	
Radiology	50% graduates last 5 years	No requirement	78%	
Surgery	65% graduates last 5 years	No requirement	79%	57%
Urology	80% of graduates who take last 3 years	No requirement	100%	100%
Vascular Surgery	60% graduates last 5 years	No requirement	100%	100%
FELLOWSHIPS				
Adult Recon	No requirement	No requirement	N/A	
Carbondale Sports Medicine	75% of graduates who take last 5 years	75% eligible graduates must take	100%	
Child Psychiatry	50% eligible graduates last 5 years	70% from last 5 years should take	75%	
Colorectal Surgery	70% of graduates who take last 5 years	70% from last 10 years must take	100%	40%
Endocrinology	80% of graduates who take last 5 years	80% eligible graduates should take	100%	
Hand Surgery	No requirement	No requirement	N/A	
Infectious Diseases	80% of graduates who take last 5 years	80% eligible graduates should take	100%	
Pulmonary Medicine	80% of graduates who take last 5 years	80% eligible graduates should take	100%	
Quincy Sports Medicine	75% of graduates who take last 5 years	75% eligible graduates must take	100%	
AFFILIATE RESIDENCY PROGRAMS				
FCM - Carbondale	90% of graduates who take last 5 years	95% from last 5 years must take	93%	
FCM - Decatur	90% of graduates who take last 5 years	95% from last 5 years must take	100%	
FCM - Quincy	90% of graduates who take last 5 years	95% from last 5 years must take	90%	

* Internal Medicine Boards

**Parts I & II Psychiatry Boards

KEY			
Scale			
Board Pass Rate with RRC Requirements	Meets or exceeds RRC Requirement	Within 20% of RRC Requirements	Below 20% of RRC Requirement

FIGURE 15: RESIDENT FEEDBACK & EVALUATIONS

	SIU End of Year Evaluations Data reported = total number of responses												ACGME Resident Survey Data reported = mean rating		
	Teaching Skills				Provision of Feedback				Adequate and Prompt Supervision				Sufficient Supervision	Sufficient Instruction	Satisfied with feedback after assignments
	Full time Faculty		Community Faculty		Full time Faculty		Community Faculty		Full time Faculty		Community Faculty				
	Poor/Fair	Good/Excellent	Poor/Fair	Good/Excellent	Poor/Fair	Good/Excellent	Poor/Fair	Good/Excellent	Poor/Fair	Good/Excellent	Poor/Fair	Good/Excellent	Program Mean (National Mean 4.3)	Program Mean (National Mean 4.2)	Program Mean (National Mean 3.9)
	1-2	3-4	1-2	3-4	1-2	3-4	1-2	3-4	1-2	3-4	1-2	3-4			
Dermatology	0	5	0	2	0	5	0	2	0	5	0	2	4.5	4.5	4.0
Emergency Medicine	0	11	1	10	1	10	4	7	0	11	0	11	4.2	4.0	3.5
FCM - Springfield	1	17	3	12	2	16	3	11	2	16	3	11	4.0	3.7	3.3
Internal Medicine	1	34	0	18	4	31	0	18	1	34	0	18	4.3	4.1	3.7
Med/Psych	0	1	0	0	0	1	0	0	0	1	0	0	4.2	3.8	3.7
Neurology	4	5	0	0	4	5	0	0	2	7	0	0	3.7	3.7	3.4
OB/GYN	0	14	2	12	0	14	2	12	0	14	1	13	4.9	4.7	4.6
Orthopaedics	1	10	1	10	2	9	1	10	0	11	1	10	4.5	4.4	3.7
Otolaryngology	1	4	0	5	1	4	2	3	0	5	0	5	4.3	4.2	3.9
Pediatrics	1	12	0	12	3	10	1	11	2	11	0	11	3.8	3.5	3.3
Plastic Surgery	0	9	1	5	3	6	0	5	1	8	0	6	4.2	4.4	3.1
Psychiatry	3	7	1	5	3	7	1	5	2	8	1	5	4.1	3.9	4.0
Radiology	0	8	0	6	0	8	0	6	0	8	0	6	4.3	4.2	4.1
Surgery	0	15	1	14	1	14	6	9	0	15	0	15	4.6	4.5	3.9
Urology	0	4	0	4	0	4	1	3	0	4	0	4	4.3	4.3	3.7
Vascular	0	5	0	1	0	5	0	2	0	5	0	2	4.2	4.8	4.0
AFFILIATE RESIDENCY PROGRAMS															
FCM - Carbondale	0	4	0	3	0	4	0	3	0	4	0	3	4.4	4.5	4.2
FCM - Decatur	1	13	1	12	1	13	2	10	1	13	1	12	3.9	3.9	3.5
FCM - Quincy	0	13	0	13	0	13	0	13	0	13	1	12	4.8	4.8	4.6

Duty Hours

Oversight of duty hour compliance is a core GMEC responsibility. Duty hour violations per program are reviewed quarterly by GMEC. Additional compliance data is gathered from the ACGME Resident Survey and the SIU End of Year Evaluation. Data collected during the last two academic years regarding duty hour rule compliance is displayed in Figure 16 for Springfield residents. Each violation represents one instance out of all hours worked by all residents for the year.

FIGURE 16: DUTY HOUR VIOLATIONS

Institutional Duty Hour Violations			
Duty Hour Rule	Number of violations		
	2015-2016	2014-2015	2013-2014
1 day off in 7	20	25	35
24 + 4 rule	24	63	96
Short Break	79	49	79
Emergency Medicine 12-hour rule	4	5	7
80 hours	6	10	18
In-House Call	0	2	3
Night Float	0	1	1
Total violations	133	155	239

Quality & Patient Safety

The ACGME Clinical Learning Environment Review (CLER) program was developed to promote and improve how clinical teaching sites engage resident and fellow physicians in learning to provide safe, high quality patient care by providing feedback in 6 focus areas:



SIU had its second CLER visit in August 2016. The report from the ACGME is not available at the time of this writing.

In 2015-2016, the requirement that all residents must participate in a RCA (Mock or real) and must provide documentation that they have reported a patient safety event was established. Information on how the residents could provide documentation for the near miss/adverse event was provided to all programs. A universal tool was developed for residents to evaluate their faculty supervisors on the effectiveness of their clinical teaching skills. The tool was made available to all programs to use with the option of having the GME office administer the evaluations at a program level. A resident quality improvement poster competition and symposium was approved to be held in the fall of 2016.

53 Residents Completed
LEAN/Six Sigma Training

59 Resident Quality Projects
Reported as Complete

FIGURE 17: EDUCATIONAL BALANCE

	SIU End of Year Evaluations		ACGME Resident Survey
	Balance of time between clinical learning activities & didactic learning activities		Appropriate balance for education (national mean 4.1)
	Data = total # of responses		Data = program mean rating
	Poor/Fair	Good/Excellent	SCALE: 1=Very Noncompliant 5=Very Compliant
SCALE:	1-2	3-4	
Dermatology	1	4	4.0
Emergency Medicine	0	11	3.9
FCM - Springfield	8	10	3.8
Internal Medicine	12	22	4.0
Med/Psych	0	0	3.2
Neurology	5	4	4.1
OB/GYN	0	14	4.6
Orthopaedics	1	9	4.3
Otolaryngology	0	5	4.3
Pediatrics	3	10	3.7
Plastic Surgery	0	9	4.2
Psychiatry	3	6	4.2
Radiology	0	9	4.2
Surgery	1	14	4.2
Urology	0	4	4.1
Vascular	0	5	4.4
AFFILIATE RESIDENCY PROGRAMS			
FCM - Carbondale	1	3	4.5
FCM - Decatur	1	13	3.7
FCM - Quincy	4	9	4.3

FIGURE 18: QUALITY IMPROVEMENT

	ACGME Resident Survey		ACGME Faculty Survey
	Provided data about practice habits	Participated in quality improvement	Residents / fellows participate in quality improvement or patient safety activities
	Data = program mean rating		
	Resident Survey (National Mean 3.8)	Resident Survey (National Mean 4.4)	Faculty Survey (National Mean 4.6)
SCALE:	1=Very Noncompliant 5=Very Compliant		
Dermatology	4.3	4.3	4.8
Emergency Medicine	4.3	3.4	4.9
FCM - Springfield	3.7	4.3	3.9
Internal Medicine	3.8	4.4	4.9
Med/Psych	4.3	5.0	5.0
Neurology	2.8	2.8	4.2
OB/GYN	4.5	5.0	4.2
Orthopaedics	2.3	4.5	4.1
Otolaryngology	2.3	4.6	5.0
Pediatrics	3.4	4.0	4.5
Plastic Surgery	2.7	4.7	4.0
Psychiatry	4.1	5.0	4.7
Radiology	3.7	4.7	4.6
Surgery	4.2	4.8	4.7
Urology	4.4	4.4	4.4
Vascular	1.8	5.0	4.6
AFFILIATE RESIDENCY PROGRAMS			
FCM - Carbondale	5.0	4.7	5.0
FCM - Decatur	4.7	3.4	5.0
FCM - Quincy	5.0	4.8	4.7

Quality & Patient Safety

FIGURE 19: PATIENT SAFETY

	SIU End of Year Evaluations				ACGME Resident Survey			
	Effectiveness & relevancy of dialogues during handoffs		Effectiveness of handoff supervision		Culture reinforces patient safety responsibility		Information not lost during shift changes or patient transfers	
	Data = total # of responses				Data = program mean rating			
	Poor/Fair	Good/Excellent	Poor/Fair	Good/Excellent	Resident Survey (National Mean 4.5)	Faculty Survey (National Mean 4.6)	Resident Survey (National Mean 4.0)	Faculty Survey (National Mean 4.2)
SCALE:	1-2	3-4	1-2	3-4	SCALE: 1=Very Noncompliant 5=Very Compliant			
Dermatology	0	5	0	5	4.3	4.6	4.2	4.2
Emergency Medicine	1	10	3	7	4.4	4.7	3.6	4.1
FCM - Springfield	1	17	2	16	4.2	4.3	3.4	3.8
Internal Medicine	1	34	6	29	4.5	4.6	3.7	4.0
Med/Psych	0	1	0	1	4.3	4.5	3.5	3.8
Neurology	0	9	1	8	4.3	4.4	3.9	4.2
OB/GYN	0	14	0	14	5.0	4.6	4.3	4.1
Orthopaedics	0	10	0	10	4.7	4.6	3.7	4.3
Otolaryngology	1	4	1	4	4.2	4.6	3.9	4.3
Pediatrics	1	12	2	11	3.8	4.5	3.5	3.9
Plastic Surgery	2	7	1	8	4.7	4.7	4.1	4.1
Psychiatry	0	10	2	8	4.2	4.4	3.9	4.2
Radiology	0	3	0	3	4.4	4.5	4.3	4.6
Surgery	1	14	3	12	4.7	4.7	3.9	3.8
Urology	0	4	0	4	4.4	4.5	4.1	4.2
Vascular	0	5	0	5	4.6	4.4	4.2	3.7
AFFILIATE RESIDENCY PROGRAMS								
FCM - Carbondale	0	3	0	3	4.5	4.6	3.9	4.1
FCM - Decatur	2	12	3	11	4.1	4.7	3.7	4.2
FCM - Quincy	1	12	1	12	4.9	4.3	4.5	3.8

2016 SIU SOM Trainee Research Symposium

FIGURE 20: RESEARCH WINNERS

RESIDENT/FELLOW WINNERS OF THE 2016 SIU SCHOOL OF MEDICINE TRAINEE RESEARCH SYMPOSIUM				
Award	Resident/Fellow	PGY / Program	Mentor	Title
1st Place:	Alexandria McDow, MD	PGY4 General Surgery	Sabha Ganai, MD	<i>Impact Of Rurality On National Trends In Thyroid Cancer Incidence And Long-Term Survival</i>
2nd Place:	Bashar Amr, MD	PGY3 Internal Medicine	John Flack, MD	<i>Higher Systemic Vascular Resistance Impairs Hypertension Control</i>
	Jill Scherbel, MD	PGY4 OB/GYN	Stephen Soltys, MD	<i>Is Pitocin Exposure During Labor Associated with Autism Spectrum Disorders</i>
	Brittany Wold, MD	PGY3 Pediatrics	Beau Batton, MD	<i>Evolution of Heart Rate Variability During Maturation in Infants Born Before 32 Weeks Gestation</i>
3rd Place:	Erin Canopy, MD	PGY4 General Surgery	Sabha Ganai, MD	<i>National Trends of the Impact of Rurality on Breast Cancer Surgery</i>
	Jongjin Anne Thomson, MD	PGY4 OB/GYN	Laurent Brard, MD	<i>Diagnostic Utility of Culdocentesis in Patients with a Suspicious Adnexal Mass</i>
	Caroline Harris, MD	PGY2 OB/GYN	Funminiyi Taylor, MD	<i>Venous Thromboembolism: Padua Prediction Score in the Obstetric Patient</i>
	Richard Glover, MD	PGY4 OB/GYN	Arturo Garza-Cavazos	<i>Analysis of Chronic Pelvic Pain and Hysteroscopic Sterilization Using Micro-Inserts (Essure®)</i>

FIGURE 21: GME PROFESSIONAL DEVELOPMENT ACTIVITIES

GME Professional Development Activities	
Annual Program Directors Development Session:	
2016	Going Ape for APE
	The Resident in Academic Difficulty
2015	Improving our Learning Environment
2014	Competency Based GME
2013	ACGME Milestones
2012	Legal Issues in Medical Education
2011	Supervision of Residents
Residents as Teachers - Annual Live Session	
Residents as Teachers - Introductory On-Line Course (required for incoming residents)	
Sleep, Fatigue and Alertness - On-Line Course (required for incoming residents and new faculty)	
Supervision in Practice - On-Line Course (required for incoming residents and new faculty)	
Understanding Wellness, Stress and Impairment in Physicians (Live session - required for all PGY1's)	
Universal Issues Sessions offered for residents:	
	Employment Contracts and Financial Planning
	Ethics
	Professional Boundaries On-Line Course (required for incoming residents)

National Leadership Positions

FIGURE 22: NATIONAL LEADERSHIP

RESIDENTS OR FACULTY HOLDING A LEADERSHIP POSITION		
PROGRAM	RESIDENT OR FACULTY	LEADERSHIP ACTIVITY
Carbondale FCM	Sharon Smaga, MD	Accreditation Review Commission on Education for the Physician Assistant (ARC-PA), appointed by AAFP
Colorectal Surgery	Jan Rakinic, MD	Director, American Board of Colon and Rectal Surgery (representing Program Directors' Association in Colon and Rectal Surgery); Chair, Maintenance of Certification Process Committee, American Board of Colon and Rectal Surgery
Dermatology	Stephen Stone, MD	International Society of Dermatology, Co-Chair, Fundraising Committee (2011-Present)
Emergency Medicine	David Griffen, MD, PhD	Councilor at American College of Emergency Physicians (ACEP)
Endocrinology	Carmel Fratianni, MD	Elected to National Council of American Program Directors in Endocrinology (APDEM); National Clinical Endocrine Educators Committee of the Endocrine Society
Internal Medicine	John Flack, MD	Vice President, American Society of Hypertension (ASH) Specialist Board
	Susan Hingle, MD	Board of Regents, American College of Physicians; Chair, Education and Publications Committee, American College of Physicians

FIGURE 22: NATIONAL LEADERSHIP (cont'd)

RESIDENTS OR FACULTY HOLDING A LEADERSHIP POSITION		
PROGRAM	RESIDENT OR FACULTY	LEADERSHIP ACTIVITY
Internal Medicine	Andrew Varney, MD	Chair, National Educational Innovations Project (EIP)
Otolaryngology	Carol Bauer, MD	Secretary, Hearing International; Education Director, American Otological Society
Pediatrics	Glen Aylward, PhD	Past President, Society of Developmental and Behavioral Pediatrics; Past President, Society of Pediatric Psychology, Division 54, APA; Past Board of Directors, American Academy for Cerebral Palsy and Developmental Medicine
	Sangita Basnet, MD	Chairperson, America Nepal Medical Foundation
Plastic Surgery/ Hand Surgery	Michael Neumeister, MD	Board of Directors, American Association of Plastic Surgeons; President, American Association for Hand Surgery; Oral Board Examiner, American Board of Plastic Surgeons; Co-Chair, New Technology for Education Committee, American Council of Academic Plastic Surgeons; Co-Chair, Peripheral Nerve Subcommittee, American Society for Plastic Surgeons / Plastic Surgery Foundation
Quincy FCM	Thomas Miller, MD	Board of Directors, Association of Family Medicine Residency Directors
	Paula Mackrides, DO	Trustee, American College of Osteopathic Family Physicians
Radiology	Nzeadi Uzochukwu, MD	Board of Directors, Strategic Radiology
Springfield FCM	Wendi El-Amin, MD	Chair, Women's Health Section of the National Medical Association
	Harald Lausen, DO	Chair, Bureau of Osteopathic Education; Past-President, Association of Osteopathic Directors and Medical Educators; Chair, Residency Program Development Committee for the American College of Osteopathic Family Physicians
Surgery	Sabha Ganai, MD, PhD	Chair, Website and Social Media Communications Committee and Vice-Chair, Technology and Communications Committee, Society for Surgical Oncology (SSO)
	John Mellinger, MD	Director, American Board of Surgery (ABS); Chair, General Surgery Residency Committee, ABS; Co-Chair, SAGES Resident & Fellow Training Committee; Chair, ACS Flexible Endoscopy Postgraduate Course; Executive Committee, APDS; Co-Editor-in-Chief, ACS Resources in Surgical Education
	Hilary Sanfey, MB, BCh, FACS	President, Association of Women Surgeons Foundation; Executive Committee ACS Women in Surgery Committee; Executive Committee, ACS Scholarship Committee
Urology	Kevin McVary, MD	Chair, Public Medical Committee and Chair, BPH Clinical Guidelines Panel, American Urological Association; Co-Chair, NCCN Sexual Function Subcommittee; Chairman, NIH Sponsored Medical Therapy for BPH, NIDDK, Patient Recruitment Committee; Chairman, NIDDK Data Committee, NIH Sponsored MIST Trial; Chairman, NIDDK Outcomes and Data Assessment: NIH Sponsored CAMIS Trial; Chairman, CAMUS Patient Recruitment and Forms Committee; Head, AUA Data Committee, BPH Outcomes
	Tobias Köhler, MD	Chair, Sexual Medicine Society of North American (SMSNA) Website Committee; Chair, American Society of Andrology, Testosterone Symposium Scientific Program; Chair, Young Urologists Committee (NCS Position); Vice Chair, AUA Public Media Committee
	Bradley Schwartz, MD	Chair, North Central Section of the AUA Education Committee; Board Member, Society of Government Service Urologists
Vascular Surgery	Kim J. Hodgson, MD	Treasurer, Society for Vascular Surgery; Chairman, Finance Committee, Society for Vascular Surgery

PUBLICATIONS

Dermatology

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Family & Community Medicine-Carbondale

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Infectious Disease

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Internal Medicine

Al-Azzawi HF, **Obi O**, **Safi J**, Song M. Nephrotic Syndrome-induced thromboembolism in adults. *Int J Crit Illn Inj Sci* 2016; 6:85-8.

Brenner N, **Manthri S**, Xuefei J, Bruno RB. Perioperative DD-MVAC as a safe and efficacious treatment for MIBC: Results of a retrospective community center study with clinical correlates of toxicity and response. *J Clin Oncol* 33, 2015 (suppl; abstr e15540).

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Internal Medicine / Psychiatry

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Radiology

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PRESENTATIONS

Adult Reconstruction Surgery

Mid-America Orthopaedic Association 34th Annual Meeting, Bonita Springs, FL, April 13-17, 2016
Outcomes of Short Stem Femoral Stem in Anterior Total Hip Replacement. **Danielsky P**

Child Psychiatry

Clinical Case Conference at AACAP meeting in San Antonio, TX, October 2016
Antipsychotic Withdrawal Syndrome from Underlying Psychotherapy in Children. **Campbell P, Deotale P, Patel R**

Colon & Rectal Surgery

American Society of Colon & Rectal Surgeons (ASCRS), Los Angeles, CA, April 30 – May 4, 2016
Biofeedback therapy in fecal incontinence; what predicts response? How long should treatment be? **Barnica V**

Emergency Medicine

Council of Emergency Medicine Residency Directors (CORD), Nashville, TN, March 6-9, 2016
Mass Casualty Simulation for Emergency Medicine Residents. Educational Soundbites-Podium presentation. **Belden C, Patel C, Lopez R**

Morbidity and Mortality: An Introductory Curriculum. Oral poster presentation. **Patel C, Howe K, Lopez R**

Endocrinology

American Association of Cytopathology, Chicago, IL, November 2015
Malignancy Rates and Clinical Outcomes of Indeterminate thyroid nodules in the Bethesda System for Reporting Thyroid Cytopathology (TBSRTC) and the impact of Afirma Gene Expression Classifier (GEC) testing in a community hospital setting. Abstract presented. Manuscript in preparation. **Beckmann M, Tae W, Shannon ST, Fratianni C**

ENDO 2016, 98th Annual Meeting of the Endocrine Society, Boston, MA, April 1-4, 2016
Atypical chronology of manifestations and heterogenous phenotypes in an autoimmune polyglandular syndrome (APS) type 1 kindred. Selected for Presidential Poster Competition. **Tae W, Aziz S, Jakoby M**
Metastatic adrenocortical carcinoma misdiagnosed as a vertebral hemangioma. **Tae W, Beeravolu S, Mamillapalli C, Jakoby M**

Cholestasis and jaundice complicating untreated hypothyroidism in an adult patient. **Gurung A**, Jakoby M, Poola R, Fratianni C

Too much cortisol may make you clot: portal vein thrombosis as an unusual complication of Cushing's syndrome. **Gurung A, McDow A**, Poola R, Garfinkel M, Fratianni C, Jakoby M

American Association of Clinical Endocrinologists 25th Annual Scientific and Clinical Congress, Orlando, FL, May 25-29, 2016
Evaluation and management of Fabry disease. **Jabri H**, Fratianni C, Schneider M, Jakoby M

Cerebellopontine angle lymphoma s the etiology of central diabetes insipidus. **Baral S**, Poola R, Fratianni C, Jakoby M

American Diabetes Association 76th Annual Scientific Sessions, New Orleans, LA, June 9-14, 2016

Glycemic control measured by capillary blood glucose, but not HbA1c, is an independent predictor of hospital transfers for nursing home residents with diabetes mellitus. Selected for moderated poster discussion. Jakoby M, **Tae W**, Sagum J, Lutz M, Botchway A

Family & Community Medicine – Decatur

Family Medicine Midwest Conference in Chicago, October 2015
Health Literacy. The Growing Disconnect Between Professionals and Patients. Poster. **Dvivedi M**

Family & Community Medicine-Quincy

ACOF 53rd Annual Convention and Scientific Assembly, San Juan, Puerto Rico, April 2016
Fatal Outbreak of Legionnaire's Disease at Long-Term Care Facility in Rural Midwestern United States. Poster Presentation. **Anderson H**, Mackrides PS

Family & Community Medicine-Springfield

NRMP Conference in New Orleans, LA, October 2015
Academic Coaching: Fostering Medical Student Resilience During Academic and Professional Difficulty. El-Amin W, Koehler JL, McNeese W, **McNeese S**

Family Medicine Midwest in Chicago, IL, October 2015
Nursing Home On-Call Case Based On-call Role Play and Exercise. Higuchi M, **Owolabi M**, **Ratajczak E**

Pain and Symptom Management Workshop - Opioid Conversion Practice Cases. Higuchi M, **Patel J**, **Al-Haq T**

Program Director's Workshop and Residency Program Solutions in Residency Education Symposium in Kansas City, MO, April 2016
An Interdisciplinary Approach to GME Population Health. Brenham C, El-Amin W, **MacDonald A**, **Al-Haq T**

Infectious Disease

ID Week, San Diego, CA, Oct 6-11, 2015
Incidence of Acute Renal Failure in Patients Treated with Extended-Infusion versus Standard Infusion of Piperacillin/Tazobactam in Combination with Vancomycin. **Bobbili K**, Downen J, Koirala J

AFMR Midwestern Regional Meeting, Chicago, IL, April 21, 2016
Study of Minimum Inhibitory Concentration of Cefazolin for Methicillin Sensitive Staphylococcus Aureus and Correlation with Oxacillin Susceptibility. **Quarshie C**, Koirala J, Sundareshan V

ASM Microbe 2016 (ASM/ICAAC), Boston, MA, June 2016
Susceptibility of Carbapenem-Resistant Acinetobacter baumannii and Pseudomonas aeruginosa to Cephalosporin and Beta-Lactamase Inhibitor Combinations. **Quarshie C**, **Bobbili K**, Lawhorn J, Koirala J

Internal Medicine (also see Med/Psych and Pulmonary)

SHM Annual Meeting San Diego, CA, March 2016
Who Moved My Potassium? Poster presentation. **Soriano PK**, Hudali T, Bahttarai M, Cumpa E

ACP National, Washington DC, May 2016

One Vice, Bitten Twice: The Dangers of Adulterated Cocaine. Poster presentation. **Ahn N**, **Madrid B**

American Thoracic Society Annual Meeting, San Francisco, CA, May 13-18, 2016

Massive right side pleural effusion in chronic pancreatitis with hidden fistula: is elevated pleural fluid amylase alone sufficient to diagnose pancreaticopleural fistula (PPF) in the proper clinical context? **Ghosh M**, Sinha RA, Ghosh S, **Obi O**, Henkle JQ

AAMC Integrating Quality Annual Meeting, Chicago, IL, June 9, 2016
Smart Efficient Clinic Machine. QI Project: Changing Behavior to Restyle Residents' Approach to Outpatient Pre-visit Planning. **Varney J**

Medicine/Psychiatry (also see Internal Medicine and Pulmonary)

American College of Physicians Annual Meeting, Peoria, IL, October 2015
Deafness - Is it from Cryptococcal Meningitis or Amphotericin B? **Heeramun V**, **Lee K**, **Kulkarni S**, **Manthri S**, **Bhattarai M**

Association of Medicine and Psychiatry Annual Meeting, October 2-3, 2015, Chicago, IL

A Case Series of Psychosis with Primary Hyperparathyroidism and Mild Hypercalcemia. **Lee K**, **Shrestha S**

An unusual twist to Post Traumatic Stress Disorder. **Adaramola D**, **Pandey A**, **Joseph C**, **Bottum K**, **Resch D**

Catatonia due to...Baclofen? **Joseph C**, **Adaramola D**, **Resch D**

Seizures Dismissed as Pseudoseizures. **Heeramun V**, **Joseph C**, **Abbot N**, **Pandey A**, **Takahashi A**

Annual Meeting of the American Neuropsychiatric Association, San Diego, CA, March 2016

ECT Treatment for Catatonia Resulting in Mania. **Heeramun V**, **Baloch T**, **Chakrabarty A**, **Alluri V**

A Case of Fentanyl Induced Manic Episode. **Baloch T**, **Alluri V**, **Heeramun V**, **Chakrabarty A**

Repetitive Transcranial Magnetic Stimulation (rTMS) - A Promising Treatment for Concomitant Depression and Migraines. **Heeramun V**, **Baloch T**, **Chakrabarty A**, **Alluri V**

SHM Annual Meeting, San Diego, CA, March 2016

A Rare Case Of Complicated Achromobacter Xylooxidans Endocarditis And Its Successful Management. Poster presentation. **Bhattarai M**, **Papireddy M**, **Kulkarni S**

Chyloperitoneum and Chylothorax after Aortobifemoral Bypass Surgery and its Successful Conservative Management. Poster presentation. **Bhattarai M**, **Hudali T**, **Kulkarni S**, **Madrid B**

Annual Meeting of the American Psychiatric Association, Atlanta, GA, May 2016

A National Dataset Analysis on the Association between Depression and Stroke. **Heeramun V**, **Onwuameze O**

Fatal Multi-Organ Failure from Diphenhydramine Overdose. **Heeramun V**, **Pervin N**, **Al Obaidi Z**

Neurology

AAN conference, 2016, Vancouver, Canada

Anaplastic oligodendroglioma with IDH-1 mutation and 1P/19Q co-deletion in a patient with Olliers disease. Case report presentation. **Sadasivuni R**, **Rauschkolb P**

Transverse Myelitis Secondary to Rickettsia Infection: A Case Report. **Khan N**, **Thakkar V**, **Sadasivuni R**, **Rauschkolb P**. Poster Presentation.

Resident/Fellow Publications, Presentations & Research

American Neurological Association's (ANA) 2015 Annual Meeting, September 27-29, 2015, Chicago, IL

Ipsilateral Hemibody Proprioceptive Hypesthesia Causing Pseudochoreoathetosis in a Cervico-Medullary Hemorrhage. Poster presentation. **Rukmangadachar LA, El-Kouzi A, Siddiqui FM**

OB/GYN / Minimally Invasive Gynecologic Surgery

82nd Annual Meeting of the Central Association of Obstetricians and Gynecologists, Charleston, SC, October 21-24, 2015

Deep Epigastric Vessel Location in the Gravid Abdomen. **Rubenacker S, Burnett T, Groesch K, Roy S, Abrams R, Siddique S**

Short-term Sacrocolpopexy Outcomes with Absorbable versus Permanent Suture. Gregory C, **Burnett TL**, Groesch K, Diaz-Sylvester P, Robbs R, Siddique S

63rd Annual Scientific Meeting of the American Society of Cytopathology, Chicago, November 13-16, 2015

Atypical Squamous Cells-Undetermined Significance (ASC-US) Triage with Surepath™ Pap Test and Digene Hybrid Capture II (HCII) HPV Testing. **Kirkwood D, McAsey ME, Groesch K, Robbs R, Zeino Y, Diaz-Sylvester P, Beckmann M.**

44th American Association of Gynecologic Laparoscopists (AAGL) Global Congress on Minimally Invasive Gynecology, Las Vegas, NV, November 15-19, 2015

Superior and Inferior Epigastric Vessel Location in the Resting and Insufflated Abdomen. **Burnett TL**, Garza-Cavazos A, Groesch K, Robbs R, Diaz-Sylvester P, Siddique S

Annual Clinical and Scientific Meeting of the American Congress of Obstetricians and Gynecologists, Washington DC, May 14-17, 2016

Mapping Cardiovascular Obstetrical Complications in South Central Illinois. **Glover R, Albers J, Ganai S, Smith T, Wohltmann C, Zahnd W**

Venous Thromboembolism: Padua Prediction Score in the Obstetric Patient. **Harris C, Sulmers C, Groesch K, Wilson T, Delfino K, Taylor F**

Orthopaedics

8th Annual Lindseth Lectureship at Indiana University, Indianapolis, Indiana, November 2015

Comparative Analysis of Postoperative THA Outcomes between Low and Normal BMI Patients. **Illingworth KD**

Knee Arthroscopy in Very Young People. **Illingworth KD, Gabriel KR**

13th Meeting of the Combined Orthopaedic Association. Cape Town, South Africa, April 2016

Assessing Risk Factors for 30-day Readmission after Total Hip Arthroplasty: a Retrospective Analysis. **Patton J, Barinaga G, Horberg J**

Assessing Risk Factors for Thirty-day Readmission after Total Knee Arthroplasty: A Retrospective Analysis. **Horberg J, Voss B, Kurdi A, Chambers MC, Sayeed Z, Anoushiravani AA, el-Othmani MM, Saleh KJ**

Effect of Time of Operation on Hip Fracture Outcomes-A Retrospective Analysis. **Barinaga G, Wright E, Sayeed Z, Anoushiravani AA, Chambers MC, Cagle PJ, El-Othmani MM, Saleh KJ**

Implementation of a Hip Fracture Pathway Using Lean Six Sigma Methodology in a Level 1 Academic Trauma Center. Sayeed Z, Anoushiravani AA, El-Othmani MM, **Barinaga G**, Sayeed Y, Chambers MC, Cagle PJ, Saleh KJ

In-hospital Outcomes and Resources Consumption Following TKA: Comparison between Normal, Obese, and Morbidly Obese Patients.

Patton J, Sayeed Z, Anoushiravani AA, Chambers MC, Cagle PJ, El-Othmani MM, Saleh KJ

Predictive Factors for Economic Outcomes in Patients with Hip Fractures. **Barinaga G, Wright E, Chambers MC, Anoushiravani AA, Sayeed Z, Brockman H, Cagle P, El-Othmani MM, Saleh KJ**

Retrospective Analysis of the Impact of Day of Admission, Payer Type, and Disposition on Outcomes Following Hip Fracture Procedures.

Patton J, Barinaga G, Wright E, Anoushiravani AA, Sayeed Z, Chambers MC, Cagle PJ, El-Othmani MM, Saleh KJ

Thromboprophylaxis in Hip Fracture Patients: A Study Assessing Outcomes and Resource Utilization Trends. Anoushiravani AA, Sayeed Z, **Barinaga G**, El-Othmani MM, Cagle PJ, Saleh KJ.

Annual Meeting Mid-America Orthopedic Association, Bonita Springs, Florida, April 2016

Assessing Risk Factors for Thirty-day Readmission after Total Knee Arthroplasty: A Retrospective Analysis. **Horberg J, Kurdi A, Voss B, Chambers MC, Sayeed Z, Anoushiravani AA, Barinaga G, Cagle PJ, El-Othmani MM, Saleh KJ**

Comparative Analysis of Low and Normal BMI as it Relates to Nutritional Status and Postoperative THA Outcomes. **Barinaga G, Anoushiravani AA, Sayeed Z, Chambers MC, Gilbert T, Scaife SL, El-Othmani MM, Saleh KJ**

Retrospective Analysis of the Impact of Day of Admission, Payer Type, and Disposition on Outcomes Following Hip Fracture Procedures.

Barinaga G, Wright E, Anoushiravani AA, Sayeed Z, Chambers MC, Cagle PJ, El-Othmani MM, Saleh KJ

AOA Annual Meeting, Seattle, WA, June 2016

Retrospective Analysis of the Impact of Day of Admission, Payer Type, and Disposition on Outcomes Following Hip Fracture Procedures.

Barinaga G, Wright E, Anoushiravani AA, Sayeed Z, Chambers MC, Cagle PJ, El-Othmani MM, Saleh KJ

Otolaryngology

Association for Research in Otolaryngology Annual Meeting, San Diego, CA, February 2016

Altered ABR Waveforms and Ribbon Synapse Changes in the FBN Rate Model of Aging. Presentation. **Montgomery S**

Pediatrics

Society of Critical Care Medicine Congress, Orlando, FL, February 2016

Risks of Adult Heparin-Protocols in Children Admitted With Venous Thromboembolism. Critical Care Medicine. Basnet S, **Carmichael N, Capriolo G, Majcina R**

Pediatric Academic Societies Annual Meeting, Baltimore, MD, May 2016

Haemophilus Influenzae Infections: Are We Seeing A Comeback?

Agarwal P, Rodriguez M, Chaudhary S

Low Frequency of CMV Testing in Infants with Failed Hearing Screen.

Gupta B, Rodriguez M

American College of Sports Medicine Annual Meeting, Boston, MA, June 2016

Shortness of Breath- Soccer, Basketball. **Burkhardt J, Johnson M**

Plastic Surgery

American Association for Reconstructive Microsurgery, Scottsdale, AZ, January 2016

Diminishing Wound Breakdown After Pressure Sore Closure with Assistance of the VAC Device. **Cochran A**

Psychiatry (also see Medicine/Psychiatry)

Annual Meeting of the American Neuropsychiatric Association, San Diego, CA, March 2016

Association of LRRK2 Gene and Juvenile Parkinson's Disease. **Dusad A, Khan M, Pilla M, Bennet JJ**

Case Report of An Elderly Male Presented with Post Stroke Delirium.

Khan M, Bennett JJ, Dusad A

Annual Meeting of the American Psychiatric Association, Atlanta, GA, May 2016

Broken Heart Syndrome: A Case of Takotsubo Cardiomyopathy in a Female presenting with Bereavement. **Khan M, Dusad A, Shrestha S**

Immediate Mental Health and Psychosocial Problems Among Victims of Mega Earthquake in Nepal - A Cross Sectional Study. **Nepal H, Black E, Sharma P**

Inpatient Mortality, Rates of Cardiac Catheterization, Revascularization and National Trends after Acute Myocardial Infarction in Patients with Dementia. **Pilla M, Pilla T, Scaife S, Bennett JI**

Pulmonary (also see Internal Medicine)

American Thoracic Society Annual International Meeting, San Francisco, CA, May 2016

Simultaneous Pulmonary and Paradoxical Emboli with Impending Pradoxical Embolus: A Rare Presentation. **Rizwan M, Ahmad Z, Chalise S, Aljanabi M, Sultana N, Rehman Z**

Sports Medicine-Quincy

AMSSM 25th Annual Meeting, Dallas, TX, April 2016

Chronic ankle pain can be more than a sprain. Poster presentation. **Chitturi S, Daniels JM, Miller EM, Muller MH**

Cheek swelling in a college football player. Poster presentation. **Daniels JM, Chitturi S, Arguelles CS, Miller EM**

Radiology

American College of Physicians, 30 October 2015

A Heartbreaking Lesson in Electrical Safety: An Early Presentation of Twiddler Syndrome. **Ryan D**

Bugs Without Borders: Empyema Necessitans. **Ryan D**

Time is Brain: Rapidly Progressive and Fatal Case of Herpes Simplex 1 Encephalitis. **Ryan D**

The Grasp of the Phantom: Atypical Cause for Respiratory Failure. **Ryan D**

Surgery

Academic Surgical Congress, Jacksonville, FL, February 2016

ACGME Duty Hour Reforms Do Not Impact Outcomes in General and Vascular Surgical Patients. Presentation. **Tehrani N, Wetzel S, Mellinger J, Sanfey H, Desai M**

Comparative ERCP Outcomes of Gastroenterologists and Surgeons: Analysis of National Inpatient Sample. Presentation. **Cooper J, Desai M, Scaife S, Gonczy C, Mellinger J**

Do Trends in Surgical Resident Case Volumes Justify Additional Oncology Fellowship Training? Presentation. **Khan A, Desai M, Ganai S, Mellinger J**

Impact of Physician Specialization on Inpatient Hospital Outcomes after Thyroidectomy for Cancer. Presentation. **McDow A, Desai M, Ganai S, Mellinger J**

Society of Surgical Oncology Annual Meeting, Boston, MA, March 2016

National Trends of the Impact of Rurality on Breast Cancer Surgery. Presentation. **Canopy E, Ganai S**

Society of American Gastrointestinal & Endoscopic Surgeons Meeting, Boston, MA, March 2016

Emergent reversal of gastric bypass due to severe GI hemorrhage from marginal ulcer eroding into right gastroepiploic artery. Presentation. **Mouw N, Reid A, Mellinger J**

American Association of Endocrine Surgeons 2016 Annual Meeting, Baltimore MD, April 2016

Impact of Rurality on National Trends in Thyroid Cancer Incidence and Long-term Survival. Presentation. **McDow A, Zahnd W, Angelos P, Mellinger J, Ganai S**

Urology (also see Andrology)

NCS of the AUA, Amelia Island, FL, November 10-14, 2015

A comparison of wait times for transurethral resection of bladder tumors between academic and private practices utilizing the same facilities. Podium. **Francois N, Welliver C, Holland B, Dynda D, Delfino K, Baron T, Kohler T**

A cost analysis of renal biopsy vs. laparoscopic cryoablation for initial management of small renal masses. Podium. **Kottwitz M, Tieu T, Ring J, Schwartz B**

Complications of urologist-directed percutaneous nephrolithotomy stratified by stone size: a single surgeon's experience. Poster. **Francois N, Patel R, Lythgoe C, Dynda D, Schwartz B**

Farmland, fertilizer, and hypospadias. Podium. **Sulaver R, Matthews R**

Female post-finasteride syndrome: it's a man's world. Podium. **Fiuk J, Butcher M, Lwin A, Holland B, Herberts M, Clemons J, McVary K, Kohler T**

Health literacy in nephrolithiasis population. Podium. **Frederick L, Schwartz B**

How is delayed ejaculation defined and treated in North America? Podium. **Sadowski D, Butcher M, Welliver C, Botchway A, Kohler T**

Investigating the etiology of kidney cancer disparities in Illinois. Podium. **Sadowski D, Mueller G, Zahnd W, Alanee S, McVary K**

Novel use of dual energy CT in guiding treatment of complex renal cysts. Poster. **Fiuk J, Alanee S, Lwin A, Schwartz B**

Pancreatic ESWL: techniques and outcomes of our case series. Poster. **Sulaver R, Schwartz B**

Percutaneous cryoablation of small renal tumor: private practice. Podium. **Fiuk J, Brahmadam A, Tieu T, Coakley K, Lieber D**

Percutaneous Nephrolithotomy in patients with spinal cord neuropathy: a contemporary series. Podium. **Fiuk J, Ring J, Schwartz B**

Reservoir placement can be safe and easy; body donor study of inflatable penile prosthesis ectopic and traditional reservoir placement. Video. **Ring J, Lythgoe C, Osmanov D, Wilson S, Kohler T**

Resident impact on patient & surgeon satisfaction and outcomes: evidence for health system support for urology education. Podium. **Patel N, Sulaver R, Stevenson B, Healey J, Severino W, Baron T, Lieber D, Roszart D, McVary K, Kohler T**

Trends in pyeloplasty procedures: NSQIP analysis. Podium. **Fiuk J, Schwartz B**

Trichloroethylene is associated with kidney cancer mortality: a population-based analysis. Podium. **Sadowski D, Clemons J, Dynda D, Alanee S**

Upper tract urothelial carcinoma: paradigm shift in recurrence and treatment modalities. Podium. **Fiuk J, Ring J, Schwartz B**

Using Lean methodology for patient call center improvement at an academic urologic clinic. Podium. **Tieu T, Stevenson B, Baldini T, Kohler T, Gonzalez C, McVary K**

Worsened urinary storage symptoms and decreased quality of life predicts low testosterone in male cardiology patients. Podium. **Kottwitz M, Sulaver R, Mueller G, Kohler T**

2015 SMSNA, Las Vegas, NV, November 19-22, 2015

A contemporary series of penile implant complications occurring at a training institution. Poster. **Ring J, Moore A, Kohler T**

Post-finasteride syndrome: is dutasteride unfairly accused? Poster. **Baas W, Butcher M, Delfino K, Holland B, Herberts M, Clemons J, Althof S, Kohler T, McVary K**

Female post-finasteride syndrome: it's not just a man's world. Poster. **Fiuk J, Butcher M, Kohler T, McVary K**

Resident/Fellow Publications, Presentations & Research

Post-finasteride syndrome: guess who-demographics from FDA Database. Poster. Lwin A, Butcher M, Holland B, Herberts M, Clemons J, **Baas W**, **Fiuk J**, Delfino K, Althof S, Kohler T, McVary K

16th Annual Meeting of the Society of Urologic Oncology, Washington, DC, December 2-4, 2015

Farmland, fertilizer, and hypospadias. Podium. **Sulaver R**, Matthews R

Kidney cancer in rural Illinois: lower incidence yet higher mortality rates. Poster. **Sadowski D**, Geiger S, Mueller G, Zahnd W, Alanee S, McVary K

SGSU Kimbrough Urological Seminar, San Antonio, TX, January 13-17, 2016

Pancreatic ESWL: techniques and outcomes of our case series. **Sulaver R**, Schwartz B.

Resident impact on patient & surgeon satisfaction and outcomes: evidence for health system support for urology education. Podium. **Sulaver R**, **Patel N**, Stevenson B, Healey J, Severino W, Baron T, Lieber D, Roszart D, McVary K, Kohler T

Trichloroethylene is associated with kidney cancer mortality: a population-based analysis. Poster. Alanee S, Clemons J, Zahnd W, **Sadowski D**, Dynda D

AUA Annual Meeting, San Diego, CA, June 6 -10, 2016

Early Outcomes of concurrent tacho-sil grafting with IPP placement. Podium. **Patel N**, Butcher M, Kohler T

Post-finasteride syndrome: real or imagined? Poster. **Baas W**, Butcher M, Lwin A, Holland B, Herberts M, Clemons J, Delfino K, Althof S, Kohler T, McVary K

Vascular Surgery

Society for Clinical Vascular Surgery, Las Vegas, NV, March 16, 2016

Long-term improvement in outcomes following carotid endarterectomy is associated with statin use. **Koch S**

RESEARCH

Child Psychiatry

Deotale P. Medical-Surgical Emergencies on Psychiatric Inpatient Units: Retrospective Chart Analysis for Early Indicators

Dermatology

Uffelmann N, **Kokkonen E**, **Robinson C**, **Schutte A**, **Steffens A**, **Mattingly T**. Protocol X052172: A Randomized, Double-Blind, Placebo-Controlled Study of the Efficacy and Safety of Gevokizumab in Treating Active Ulcers of Pyoderma Gangrenosum

Uffelmann N, **Kokkonen E**, **Robinson C**, **Schutte A**, **Steffens A**, **Mattingly T**. Protocol no.: X052171 A 2-Year, Open-Label, Safety Extension Study of Gevokizumab in Subjects with Pyoderma Gangrenosum

Emergency Medicine

Waymack J, **Patel C**. Prehospital Difficult Airway Simulation and Training. Memorial Medical Center Foundation - \$14,145.00. May 2016.

Endocrinology

Friatianni C, **Tae W**. IRB 15-274. A retrospective analysis of malignancy rates and clinical outcomes of indeterminate thyroid nodules as reported in the Bethesda System for reporting Thyroid Cytopathology (BSRTC) and the impact of Afirma Gene Expression Classifier (GEC) testing on clinical outcomes in a community hospital setting.

Jakoby M, Sagum J, **Gurung A**, **Jabri H**, **Baral S**. IRB 15-297. Utilization of basal /bolus insulin on ward medicine by resident physicians AFTER introduction of an electronic insulin dosing application (phone App) (SCRIHS exempted research study, started July 2015.) Gurung A, To help with implementation of the Phone App of this protocol.

Jakoby M, Sagum J, **Tae W**, Lutz M, Botchway A. IRB 15-245. A Multicenter Observational Study of Glycemic Control and Complication for Long Term Care Resident with Diabetes Mellitus.

Family & Community Medicine - Quincy

Ott T, **Costa P**, **Mehta R**, **Jacob D**. Improving SIU QFM Influenza and Pneumococcal Vaccination Rates for Seniors.

Family & Community Medicine - Springfield

MacDonald A, **Al-Haq T**, **Thomas S**, Brenham C, El-Amin W. An Interdisciplinary Approach to GME Population Health. AAMC/Duke Population Health and Systems Thinking Graduate Medical Education Training Program Grant.

Infectious Disease

Bobbili K. Acute renal failure in patients treated with extended-infusion vs. standard dosing of Piperacillin/Tazobactam with Vancomycin.

Bobbili K. Comparison of treatment modalities for Histoplasmosis.

Koirala J, **Akram S**, **Bobbili K**, **Quarshie C**. A Randomized, Open-Label, Multicenter Study Of Liposomal Amikacin For Inhalation (LAI) In Adult Patients With Nontuberculous Mycobacterial (NTM) Lung Infections Caused By Mycobacterium Avium Complex (MAC) That Are Refractory To Treatment.

Koirala J, **Akram S**, **Bobbili K**, **Quarshie C**. An International, Multicenter, Prospective Observational Study of the Safety of Maraviroc used with Optimized Background Therapy in Treatment-Experienced HIV-1 Infected Patients A4001067. (Principal)

Koirala J, **Akram S**, **Quarshie C**. INS 312 - An Open-Label Safety Extension Study to a Multicenter Study of Liposomal Amikacin for Inhalation (LAI) in Adult Patients with Nontuberculous Mycobacterial (NTM) Lung Infections caused by Mycobacterium avium complex (MAC) that are refractory to treatment Phase 3.

Koirala J, **Bobbili K**, **Quarshie C**. A PHASE 4, OBSERVATIONAL, MULTICENTER, 10-YEAR PROSPECTIVE COHORT SAFETY STUDY COMPARING SUBJECTS WITH HIV-ASSOCIATED ABDOMINAL LIPOHYPERTROPHY EXPOSED TO EGRIFTA® (TESAMORELIN FOR INJECTION) TO A SIMILAR GROUP OF SUBJECTS NOT EXPOSED TO EGRIFTA®.

Koirala J, **Bobbili K**, **Quarshie C**. A Prospective, Randomized, Double-Blind, Placebo-Controlled, Multicenter Study to Evaluate the Safety and Efficacy of BAY 41-6551 as Adjunctive Therapy in Intubated and Mechanically-Ventilated Patients with Gram-Negative Pneumonia.

Koirala J, **Bobbili K**, **Quarshie C**. A PROSPECTIVE, RANDOMIZED, PLACEBO-CONTROLLED, DOUBLE-BLIND CLINICAL TRIAL TO EVALUATE WHETHER EGRIFTA® (TESAMORELIN FOR INJECTION), 2 MG ONCE DAILY SC, INCREASES THE RISK OF DEVELOPMENT OR PROGRESSION OF DIABETIC RETINOPATHY WHEN ADMINISTERED TO HIV-INFECTED SUBJECTS WITH ABDOMINAL LIPOHYPERTROPHY AND CONCOMITANT DIABETES.

Quarshie C. Nebulized Colistin Use in Multidrug resistant Acinetobacter spp in patients without cystic fibrosis.

Sundareshan V, **Akram S**, **Bobbili K**, **Quarshie C**. A Prospective, Randomized, Double-Blind Multicenter, Phase 3 Study to Assess the Safety and Efficacy of Intravenous Ceftolozane/Tazobactam Compared with Meropenem in Adult Patients with Ventilated Nosocomial Pneumonia.

Sundareshan V, **Akram S**, **Quarshie C**. A Phase 3 Randomized, Double-Blind Study Comparing TR701 FA and Linezolid in Ventilated Gram-positive Nosocomial Pneumonia.

Sundareshan V, **Akram S**, **Quarshie C**. Televancin Observational Use Registry.

Minimally Invasive Gynecologic Surgery

Siddique S, **Eugenio-Colon J**. Improved methods for clinic-based InterStim® placement, IRB# 16-464

Neurology

Khan N. The Association of Prior Use of Antiplatelet agents and Increased Mortality and Morbidity in Intracerebral Hemorrhage Patients. How big is the Risk? Young Investigator Database Seed Grant, \$8000.

Plastic Surgery / Hand Surgery

Neumeister M, **All Residents***. A 10-Year Retrospective Review of Peripheral Nerve Surgery Outcomes

Neumeister M, **All Residents***. A 28-day Randomized, Double-blind, Placebo-Controlled Clinical Trial and 5-Year Prospective. Outcomes Study: A Two-Part Study of Botox Therapy for Ischemic Digits

Neumeister M, **All Residents***. A Randomized, Controlled Trial Comparing Combination Therapy of Ibuprofen + Acetaminophen versus Hydrocodone + Acetaminophen for the Treatment of Pain after Carpal Tunnel Surgery

Neumeister M, **All Residents***. Antiviral Prophylaxis in a Burn Patient Population

Neumeister M, **All Residents***. Ascension Proximal Interphalangeal (PIP) FDA-HDE Humanitarian Device Exception #H010005

Neumeister M, **All Residents***. EPICEL® CULTURED EPIDERMAL AUTOGRAFTS HUD

Neumeister M, **All Residents***. Isolation of Adult Human Adipocyte-Derived Cells for Reconstruction/Regenerative Medicine and Tissue Engineering

Neumeister M, **All Residents***. Transplantation of Full Thickness Skin Defects with Minced Skin

Neumeister M, **All Residents***. Vascularized Composite Allotransplantation of the Hand and Upper Extremity for the Restoration of Form and Function in Hand Amputees

***ALL RESIDENTS - Cochran A, Henderson M, Mendenhall S, De la Garza M, Schmucker R, Snider C, Ross A, Ruebhausen M, Hutchinson L, McKenna K, Daugherty T, Winters J, Lutfy J (Hand Fellow)**

OB/GYN

Braundmeier-Fleming A, **Roy S, Gong J**. Preterm Birth and the Microbiome, IRB# 14-185.

Siddique S, **Aguirre-Amezquita F**. Comparison in Vaginal Length after Vaginal or Laparoscopic Uterosacral Ligament Suspension: a retrospective study", IRB# 13-848

Taylor F, **McCoy K**. Evaluation of Patient Satisfaction" (patient questionnaire); IRB# 15-347

Torry D, **Aguirre-Amezquita F**. Regulation of Gene Expression in Human Placentae, IRB# 12-575

Orthopaedics / Adult Reconstruction

Barinaga G, Anoushiravani A, Cagle Jr P. Aspirin Reduces Postoperative Anemia and Resource Consumption in Hip Fractures. IRB Approved.

Barinaga G, Beason A, Wottowa C. Biceps Interval and Partial Tears of the distal Biceps. IRB Approved.

Barinaga G, Cagle Jr P. Effect of Time of Operation on Hip Fracture Outcomes - A Retrospective Analysis. IRB Approved.

Barinaga G, Cagle Jr P. Retrospective Analysis of the Impact of Day of Admission, Payer type, and Disposition on Outcomes following Hip Fracture Procedures. IRB Approved.

Barinaga G, Cagle Jr P. Retrospective Analysis of Variables Predictive of Economic and Quality Measure Outcomes Following Acute Hip Fractures. IRB Approved.

Barinaga G, Chambers M, Cagle Jr P. Compartment Syndrome: Assessing the Need for a Care Pathway Specific to Atraumatic Cases. IRB Approved.

Barinaga G, Sayeed Z, Cagle Jr P. Implementation of a Hip Fracture Care Pathway Using Lean Six Sigma Methodology in a Level I Trauma Center. IRB Approved.

Horberg K, Shervin D, Graham RD, Allan G. Prosthetic Joint Infection Following isolated Tibial Polyethylene Exchange for Aseptic Polyethylene Wear. IRB in Submission.

Illingworth K, Martinek M, Gabriel K. Emergency Room Procedural Sedation in Pediatric Both Bone Forearm Fractures. IRB approved.

Illingworth K, Mayfield A, Graham RD, Martinek M, Gabriel K. Radiographic Parameters of Sugar Tong Plaster Splints in Pediatric Distal Both Bone Forearm Fractures. IRB approved.

Illingworth K, Wilson C, Rahman R. The Use of Betadine, Hydrogen Peroxide and Vancomycin in Decreasing Time Dependent Pedicle Screw Contamination. IRB In Submission. Also submitted for Mid-American Orthopaedic Association grant funding.

Illingworth K, Wilson C, Rahman R, Satchivi. Zero Profile Cervical Fusion Cages versus ACDF: Fusion Rates and Dysphagia. IRB: in submission.

Otolaryngology

Sharma A, **White J**. Metastatic colon cancer presenting as mandibular mass, a case series

Sharma A, **White J**. Oropharyngeal Cancer: Patterns of Lymph Node Metastases and Treatment Outcomes.

Pediatrics

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