

SCHOLARLY ACTIVITY IN THE HONORHEALTH JOHN C. LINCOLN MEDICAL CENTER GENERAL SURGERY RESIDENCY PROGRAM

2016-2017 EXECUTIVE SUMMARY

Overview

The purpose of the General Surgery Scholarly Activity Program is to provide residents with a strong foundation in research, ensure their effectiveness in evaluating the care of the patient in terms of best practices and their proficiency in critical appraisal of peer-reviewed literature, which will help residents develop a pattern of lifelong learning habits. The Scholarly Activity Program (SAP) is designed to fulfill the residency program's Practice-Based Learning goals. Scholarly activities of residents & faculty are documented & assessed regularly as a part of the General Surgery Program evaluation and is also assessed through the annual ACGME Faculty & Resident Survey.

This executive summary is organized into 3 parts. In Part I, scholarly activity processes and structure are identified and described. Part II provides further details regarding resources in place to support activities. Part III includes a list of faculty & resident activities over the last 5 years.

PART I – Processes for Scholarly Activity & Research

The Scholarly Activity Program is administered through a variety of teaching strategies, including regular instruction through didactics sessions, engaged participation in research projects, journal club and presentations at residency-based conferences (M&M, General Surgery Multidisciplinary Case Review/tumor board). Residents are also required to regularly submit scientific abstracts, posters and/or manuscripts to professional associations and publishers with the intent to present at conferences or publish in peer-reviewed journals.

The sections below provide further details for each type of scholarly activity.

Community Service and Education

Residents will be required to participate in community events focused on delivering medical care to under-serviced or impoverished areas of the population. Tracking and recording of these efforts will be required. Develop and deliver a community lecture to a community group or present on a national level at a specialty college session such as the ACA.

A. Suggestions for residents:

1. Four (4) public health presentations of one (1) hour each (allowance for one (1) hour preparation time for each) Examples: Stop Smoking, COPD, Diabetes, Arthritis, (Seniors, Mobile Home Parks, Retirement Communities)
2. 1-hour credit for each hour of doing physicals (Soccer leagues, Pop Warner football, any schools, T.O.P.S.)
3. Hospice Volunteer Work (Assigned patient – monthly visits X8)
4. Volunteer time for non-profit health agencies (Lung Association, Cancer Association, Heart Association) – one hour credit for each hour worked.
5. Volunteer work with your Church and/or Youth Groups – 1-hour credit for each hour worked.
6. Other volunteer work for credit must be approved in advance by the Program Director

Faculty Research and Scholarly Activity

Core teaching faculty will be required to demonstrate involvement in resident research projects by providing guidance and support to residents. In addition, teaching faculty will be required to participate in clinical discussions and conferences along with on-site faculty development and training. All faculty will be encouraged to participate in national and regional professional organizations related to the ACGME, ACOS and AOA.

Faculty are responsible for committing and scheduling 5-10 percent of their instruction time to supporting the scholarly activities of residents. During such time, faculty provide direct consultation & advisement on research topics & the research process and provide ongoing guidance throughout the entire project timeline. Faculty also select peer-reviewed and clinically significant research articles for residents to review, appraise & present during journal club activities.

Faculty are also responsible for the development & implementation of their own scholarly activities in order to expand their own knowledgebase and contribute to the body of literature in their specialties. Details of these activities can be found in Part III of this summary.

Journal Club

All reading assignments are mandatory and a meaningful program of self-directed learning is also expected of every residents. The resident is required to attend the monthly Surgical Journal Club meetings and shall review the subject matter assigned to him/her by the senior surgical resident. These activities are intended to assist residents in critically analyzing their own care against the most up-to-date information on diagnosis and treatment effectiveness.

The reading assignment should closely follow the curriculum in reference to the assigned topics to be covered at each level of training. In addition specific texts will be listed for required reading over the 5 year period. These supplemental texts are to be used to review the disease and surgical treatment according to the daily surgical schedule and will be reviewed and updated accordingly. Journal club will be directed and supervised by a Board Certified physician as assigned by the Program Director.

Morbidity and Mortality Conference

Residents will review patient deaths and complications, as well as a review of interesting cases, and will submit written summaries of individual cases for this conference. The program director reviews the cases and determines which cases are to be presented. The focus will be on education. This conference will be directed and supervised by a Board Certified physician as assigned by the Program Director.

National Convention and Conferences

Residents will be required to attend 1 ACOS Annual Postgraduate Seminar or 1 Annual Meeting starting in the fifth year of residency. Allocation of funds will be made available for resident's attendance.

Quality Projects & Teams

All residents are required to participate in a quality team and or project within the base hospital institution. These quality projects include; quality measures, patient safety and risk management. Residents are required to be knowledgeable on the base hospital's policy on reporting medical errors and near misses. This includes; specific forms, peer review committees, Program Directors and or departments. This will be at the discretion of the Program Director and base institution.

COMMUNITY-BASED EFFORT QUALITY IMPROVEMENT PROJECT Residents may select a specific health improvement or disease prevention issue or need within the community. The Resident must identify a population of interest within a community, summarize the problem and the population, review the current literature, perform a needs assessment, and design, implement and evaluate an intervention to address the issue or need.

MEDICAL EDUCATION QUALITY INITIATIVE IMPROVEMENT PROJECT The aim of this type of project is to provide more effective training processes and programs for medical students, interns and residents. Residents who wish to pursue a Medical Education Quality Initiative project must identify a process or program need, review the current literature, perform a needs assessment, and design, implement and evaluate the proposed improvement project. For example, a resident could prepare three lectures to be given in three different mediums to the house staff, then measure the impact of those lectures by evaluating the effectiveness of the resident as a lecturer and testing the knowledge retained by attendees.

Resident Teaching Role

Resident will learn supervisory skills by observing and learning from the example of their mentors and teaching faculty. In addition, residents will develop lectures, curriculum outlines, and testing materials and serve as lecturers and other based on requirements for students and residents throughout the program year. This will be accomplished through local resident didactic lectures and via Video conferencing.

Scholarly Activities & Research Papers

All residents will be required to complete specified scholarly activities, in accordance with ACGME & AOA scholarly activity and research requirements and ACS Level 1 Trauma Verification requirements.

Scholarly activities include, but are not limited to, the following:

- a retrospective or prospective research project;
- journal club, case presentations; symposium, poster and abstract presentations;
- community-based and medical-education based quality improvement projects;
- practice improvement projects;
- technique descriptions and/or essays suitable for publication;
- a scientific research paper for General Vascular Surgery, Plastic/Reconstructive Surgery, Surgical Critical Care or Cardiothoracic Surgery.

Residents will provide a detailed description of all scholarly activities with documentation, as necessary. Scholarly activity reports will be filed and are subject to review by site visitors/auditors during periodic reviews of the program for continuing accreditation.

It is recommended that reviews of scholarly activity be done on at least a quarterly basis. It is imperative that written documentation of all aspects of the resident's scholarly activities be maintained in the resident's file. Program Directors need to be kept informed of the status of each resident's efforts in order for a narrative description and evaluation of their scholarly activity to be included in the Program Director's Annual Resident Evaluation Report for Surgery.

SCHOLARLY RESEARCH PROJECT Residents will complete a scholarly research project annually in one of four areas to include: Clinical Research, Community Based, Medical Education and Practice Improvement. The Program Director approve all resident research projects. Residents will be expected to attend regular sessions for review and evaluation of their progress with their Program Director, which should include discussion of study design and analysis.

HonorHealth John C. Lincoln Medical Center and Midwestern University both have resources available to assist residents in the design, development and publication of scholarly papers.

Research training will be provided to residents via lecture, journal club sessions, and other workshops or webinars as needed. Training will include the following:

- CITI human subject protections training;
- understanding the significance of a scientific study or project and how it addresses important clinical problems and/or critical barriers to progress in the field;
- identification of improvements made to scientific knowledge, technical capability and clinical practice when projects aims are achieved;

- recognition of changes in various aspects, methodologies, technologies, services, and therapies & preventative interventions when project aims are met;
- formulation of specific, researchable clinical queries and familiarity with the PICOT algorithm;
- performing a literature search using reference databases and literature citation management software; creation of an annotated bibliography;
- critical appraisal of primary research literature, including analyzing the appropriateness of research designs and statistical methods, and relevance to patient care that the resident provides.
- defining independent and dependent variables and outcomes of impact to clinical practice
- understanding of other research-related concepts, including research designs, scientific methods, data collection & statistical analysis, and dissemination of new information through reports and publications

PREPARATION AND SUBMISSION OF MANUSCRIPTS, PAPERS AND PROGRESS REPORTS

Residents will adhere to the following:

- A. All manuscripts must be typed and submitted in an appropriate format acceptable for publication in a standard scientific refereed journal.
- B. An abstract must accompany each manuscript. The cover sheet must list the program for which credit is to be applied and a statement that the resident is the primary author, or performed substantive participation in the study and that the paper has been reviewed and approved. This must be signed and attested to by the Program Director. Manuscripts shall be submitted in one of the following formats only:
 1. A case presentation of a first reported case or other unusual manifestations of a disease which will add to the medical literature, which should include a review of the literature and discussion (acceptable only if submitted for publication).
 2. A report of an original clinical research study approved by the Program Director and the institutional review board.
 3. A case presentation and discussion which challenges existing concepts of diagnosis or treatment and thus recommends further investigation.
- C. Initially, the resident should submit a written proposal to the Program Director for review and approval and prepared under the supervision of the Program Director or another physician approved by the Program Director. Residents may work jointly on an original clinical research project, provided a progress report and written approval of the Program Director is included in Part II of the Resident Annual Report. Residents may not work jointly on case reports.

Residents shall submit the required manuscript within thirty (30) days of completing the final year of training.

1. Program Directors will document the status of all research as part of the Resident Semi-Annual Evaluations.

RESEARCH TIMELINE Residents are expected to select a research project during the PGY-2 year. This project must be reviewed and discussed with the program director, mentor/advisor or member of Midwestern University's research team. Appropriate timelines will be determined in order to complete research. Program Directors will not sign off on promotion and/or program graduation if research projects are incomplete.

SICU/Trauma/Burn Conference

Weekly conferences will be provided to residents and will feature important topics in critical care, trauma, and burn surgery. Topics are chosen by the attending/teaching surgeons in these divisions at the beginning of each academic year, and approved by the program director.

Junior residents on these services are assigned the topics and asked to prepare a short (20 minute) PowerPoint presentation. Teaching faculty/attending surgeons from these divisions then lead a brief discussion on the topic following the presentation.

PART II – Resources for Scholarly Activity & Research

HonorHealth Research Institute

The HonorHealth Research Institute (HRI) provides both institutional and scientific review for all research activities at the organization, including the scholarly projects of residents and faculty. All research performed at HonorHealth is based on scientific principles and carried out using the highest quality standards. The HRI assists in setting the standard for excellence in personalized healthcare by developing a culture of inquisitiveness, leading to the provision of the best evidence-based medicine to patients and the community. HRI provides the following:

- research administration staff responsible for ensuring that all research performed at HonorHealth is in compliance with relevant state and Federal requirements and that it fulfills the HonorHealth mission;
- documentation to guide researchers through the process of both investigator- and sponsor-initiated studies;
- guidance on scientific and institutional review board submissions;
- access to human subject protections training;
- access to local resources, including statisticians and other personnel experienced in research;
- Office of Sponsored Programs (OSP), which is responsible for supporting researchers in the identification and submission of grants.

Midwestern University Office of Research and Sponsored Programs (ORSP)

The ORSP office provides a wide variety of resources to support scholarly & research activities of residents and faculty:

- publishes a monthly newsletter highlighting news & opportunities
- provides online access to policies, forms and funding sources
- support in preparing proposals for submission to sponsors, including budget development, institutional and scientific review
- provides funding opportunities for research

The Midwestern University Osteopathic Postdoctoral Training Institute (OPTI) requires all specialty college research related educational objectives be fulfilled by residents, as applicable. Documentation of research activities will be kept on file. To assist the resident in this endeavor the OPTI will provide:

- Support to facilitate participation in completing research requirements and projects required by specialty colleges.
- Research resources and research opportunities through the Office of Research and Sponsored Programs.
- Mentors from Midwestern University & University of Arizona College of Medicine (MWU/AZCOM) Basic Science and Clinical Faculty.
- Options for meeting the research requirement shall be determined by the Program Director and may include, but not be limited to, any of the following:
- Original research studies (basic science, clinical studies, health services research), and writing, once per training program;
- Retrospective studies (medical records analysis) once per training program.

HonorHealth Library Resources

ACCESSIBILITY HonorHealth Osborn Medical Center, Shea Medical Center and John C Lincoln Medical Center libraries provide 24/7 access to single workstations as well as meeting/collaboration space. The libraries also maintain a Web-based library portal which is available on-site through the employee intranet and off-site through Athens (authentication software). Librarians provide mobile app support for several key resources:

- UpToDate clinical decision support system
- Elsevier's ClinicalKey resource which contains the FirstConsult clinical decision support system along with thousands of high-impact electronic textbooks and journals, practice guidelines, over 340 procedure/skills videos, image library and PresentationMaker component to support presentations
- Micromedex drug information, IV compatibilities, drug/herbal/food interactions, other pharmaceutical tools & calculators; also includes Pediatric Essentials & NeoFax Essentials

LIBRARIAN SUPPORT A wide range of library services are provided by the HonorHealth librarian team, which consists of 4.0 FTE American Library Association accredited medical librarians. Outside of physically staffed hours, librarians can be emailed or contacted by phone at the health science library locations.

Personalized services available at HonorHealth libraries include:

- Mediated (librarian-assisted) literature searching using databases and search engines that access published and unpublished evidence (results delivered with 48 hours of receiving request)
- Mediated “state of the science” literature reviews, including a synopsis of findings and critical appraisal of the literature, to support patient care needs
- Mediated searching for acute & chronic disease management and general health & wellness information for patients & families (results delivered within 48 hours of receiving request)
- Research consultations, including research question brainstorming and development using the PICOT algorithm, identification of appropriate resources for searching, search strategy development and database manipulation guidance
- Citation management, presentation and publishing support, including identification of appropriate journals to consider for submission and formatting, reference lists and footnoting support according to publisher’s instructions for authors.
- Document retrieval & delivery (delivery frequently same-day, otherwise 1-3 days of receiving request)
- One-on-one and small group training on all library databases & tools, ranging from quick overviews of resources & research tools to advanced/expert search strategy training
- Technical assistance and training for the UpToDate clinical decision website and mobile app, the ClinicalKey site and mobile app, and the Micromedex suite and mobile apps.
- Meeting and collaboration space, which includes an LCD TV and conference table with electrical outlets
- Provision of reliable, easy-to-read, evidence-based consumer health & wellness resources for patients & families as well as for residents & faculty as they communicate with and educate their patients
- Health literacy consultation services, including review of proposed patient education & discharge instructions and recommendations to improve readability and comprehension, which improves patient outcomes overall and reduces hospital readmissions
- Faculty development through journal alert (eTOCs) service to help deliver the most current information & research as it becomes available

CONTENT – GENERAL HonorHealth Library Services provide access to numerous print & electronic resources. Many have been acquired through membership to the Arizona Health Information Network (AZHIN), a statewide consortium uniting communication technology and resource access in the Arizona health care and health education communities. Other resources are acquired through Library Service’s operation budget and HonorHealth Foundation funding. Resources include:

- Evidence-based medicine (Cochrane Library, Essential Evidence Plus, MedCalc3000, UpToDate, FirstConsult)
- Journal literature databases (PubMed, Ovid Medline, Ebsco Medline with Full Text, CINAHL Complete, Health Business Elite)
- Research and scholarly project tools (research instruments/scales, theses/dissertations)
- Faculty resources (ProceduresConsult, Teacher Reference Center)
- eBooks, Full-text (ClinicalKey, STAT!Ref, Ovid Books)
- eJournals, Full-text (JAMA and JAMA Archives, Lancet, NEJM, and thousands more through Medline with Full Text, CINAHL Complete, ClinicalKey and other database collections)
- Drug information (Micromedex and Lexi-Comp via UpToDate)
- Herbals & Supplements (Alternative Medicines database within Micromedex)

See Appendix A for detailed descriptions of these resources.

Electronic resources are easily accessible on-site via the employee/intranet site. They are also accessible off-site through authentication software (Athens). Athens accounts are assigned upon request.

CONTENT – SUBJECT-SPECIFIC HonorHealth Library Services provides access to a variety of electronic and print resources to directly support the educational & reference needs of General Surgery residents & faculty, including textbooks, journals and multimedia content.

See Appendix A for a detailed listing of subject-specific resources.

MWU Library Resources

The Midwestern University Library is pleased to provide access to numerous electronic, web-based resources. Some were acquired through the Arizona Health Information Network (AZHIN), a statewide consortium uniting communication technology and resource access in the Arizona health care and health education communities. Others were acquired in cooperation with Midwestern University's Downers Grove library.

Some of the more than 100 resources, by subject area, include:

- Anatomy (Anatomy.TV & Acland's Video Atlas of Human Anatomy)
- Drug information (Facts & Comparisons, Lexi-Comp, & MICROMEDEX)
- eBooks, Full-text (Harrison's Principles of Internal Medicine & Tintinalli's Emergency Medicine and thousands more provided via STAT!Ref, NetLibrary, R2 eBook Library)

- eJournals, Full-text (BMJ, JAMA, Lancet, & NEJM and thousands more)
- Evidence-based medicine (ACP PIER, Cochrane Library, Essential Evidence Plus, & UpToDate)
- Herbals & Supplements (Natural Standard & Natural Medicines)
- Integrated resources (AccessMedicine, AccessAnesthesiology, AccessEmergency Medicine, AccessPediatrics, AccessPharmacy, & AccessSurgery; also MDConsult)
- Journal literature databases – general (MEDLINE/PubMed/MEDLINE Complete, Health Business Elite, ScienceDirect, & Web of Knowledge)
- Journal literature databases – subject specific (CINAHL, Dentistry and Oral Sciences Source (DOSS), PsycINFO, PsycBOOKS, Sport Discus, VisionCite, & Visionet)

See Appendix B for a detailed description of these resources.

Electronic resources require IDs/Passwords, which are assigned upon request, and may be accessed through the Midwestern University's library Internet site. The library staff will be happy to assist with any questions or to provide training on these resources

PART III – Inventory of Scholarly Activities

Resident Activities

PANEL DISCUSSIONS

| Trainee Name | PGY Year | Scholarly Project Title | Completion Date |
|------------------------|----------|--|-----------------|
| Ann Holloway, DO | PGY 3 | Medical Student Panel Discussion: Choosing a Residency | Feb-17 |
| Whitney Wilson, DO | PGY 1 | Q&A Panel Discussion for Medical Students | Apr-17 |
| Ali Abidali, DO | PGY 1 | Medical Explorers suturing workshop | Jul-16 |
| Ryan McPherson, DO | PGY 2 | Medical Explorers | Oct-15 |
| Christopher Myers, DO | PGY 3 | Medical Explorers | Sep-15 |
| Ann Wells Holloway, DO | PGY 4 | Medical Explorers | Sep-15 |
| Ryan McPherson, DO | PGY 2 | Medical Explorers | Sep-15 |

PRESENTATIONS/POSTERS/ABSTRACTS

| Trainee Name | PGY Year | Scholarly Project Title | Completion Date |
|------------------------|----------|---|-----------------|
| Ryan McPherson, DO | PGY 2 | Podium: Healthcare Disparities Presentation | Feb-17 |
| Whitney Wilson, DO | PGY 1 | Resident As Educator | Feb-17 |
| Ann Holloway, DO | PGY 3 | Podium: Laparoscopic Nissen Fundoplication – The Left Posterior Approach | Nov-16 |
| Byron Holloway, DO | PGY 3 | Podium: Identifying Augmented Renal Clearance in Trauma Patients: Validation of the Augmented Renal Clearance in Trauma Intensive Care (ARCTIC) Scoring System | Nov-16 |
| Chris Myers, DO | PGY 3 | Abstract: Tracheobronchial Injuries, Not All Are Bronchial | Nov-16 |
| Ryan McPherson, DO | PGY 2 | Poster: Radiolucent Bullets” A Novel Role for CT Imaging in Evaluating Gunshot Victims with Negative Plain Films | Nov-16 |
| Ann Wells Holloway, DO | PGY 4 | Poster Presentation: “Laparoscopic Nissen Fundoplication Using a Left Posterior Approach Minimizes Esophageal Injury: Our Experience” Midwestern University Research Conference, Phoenix AZ | May-16 |
| Ann Wells Holloway, DO | PGY 4 | Poster Presentation: “Laparoscopic Nissen Fundoplication Using a Left Posterior Approach Minimizes Esophageal Injury: Our Experience” SAGE Conference, Boston MA | Mar-16 |
| Ali Abidali, DO | PGY 2 | Poster Presentation: “Severe Generalized Tetanus: A Rare Complication of a Forgotten Disease” American Thoracic Society National Conference | Mar-16 |
| Ali Abidali, DO | PGY 2 | Poster Presentation: “A Fatal Case of Pulmonary Kaposi’s Sarcoma – Associated Immune Reconstitution Syndrome After Initiation of ART” American Thoracic Society National Conference | Mar-16 |
| Ann Wells Holloway, DO | PGY 4 | Podium Presentation: “Trauma-Associated Pneumonia: Time to Redefine Ventilator-Associated Pneumonia in Trauma Patients” 7th Annual Southwest Trauma & Acute Care Symposium, Scottsdale AZ | Nov-15 |
| Ryan McPherson, DO | PGY 2 | Podium Presentation: “Death Associated With Ground Level Fall More Likely In Patients Over the Age of 80”. 7th Annual Southwest Trauma & Acute Care Symposium, Scottsdale AZ | Nov-15 |

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| Jake Oman, DO | PGY 2 | Poster Presentation: "Pleural effusion following rib fractures in the elderly: are we being aggressive enough?" 7th Annual Southwest Trauma & Acute Care Symposium, Scottsdale AZ | Nov-15 |
| Ali Abidali, DO | PGY 2 | Poster Presentation: "Successful Treatment of Chronic Hepatitis C Virus Infection in a Renal Transplant Recipient with Concomitant Chronic Kidney Disease" American College of Gastroenterology | Aug-15 |

PUBLIC SERVICE

| Trainee Name | PGY Year | Scholarly Project Title | Completion Date |
|------------------------|----------|-------------------------|-----------------|
| Whitney Wilson, DO | PGY 1 | AOMA "Stump the Doctor" | Apr-17 |
| Christopher Myers, DO | PGY 3 | Hernia Screening | Jun-16 |
| Ann Wells Holloway, DO | PGY 4 | Hernia Screening | Jun-16 |

PUBLISHED JOURNAL ARTICLE/ABSTRACT

| Trainee Name | PGY Year | Scholarly Project Title | Completion Date |
|-----------------|----------|---|-----------------|
| Ali Abidali, DO | PGY 2 | "Course of Cardiac Inflammation During Nitric Oxide Synthase Inhibition in SHR: Impact of Prior Transient Ace Inhibition" Japanese Society of Hypertension. October 2015. | Oct-15 |

RESIDENCY BASIC SCIENCE CONFERENCE

| Trainee Name | PGY Year | Scholarly Project Title | Completion Date |
|--|-----------|---|------------------|
| Byron Holloway, DO | PGY 3 | Anastomotic Leak After Right Hemicolectomy | Jun 2017 |
| Whitney Wilson, DO | PGY 1 | SBO | Jun 2017 |
| Ali Abidali, DO | PGY 2 | Interesting Case Report | May 2017 |
| Whitney Wilson, DO | PGY 1 | Interesting Case Report | May 2017 |
| Ryan McPherson, DO | PGY 2 | Interesting Case Report | May 2017 |
| Ann Holloway, DO | PGY 3 | Interesting Case Report | Apr 2017 |
| Byron Holloway, DO | PGY 3 | Interesting Case Report | Apr 2017 |
| Jake Oman, DO | PGY 2 | Interesting Case Report | Apr 2017 |
| Byron Holloway, DO | PGY 3 | GI Bleed with Synchronous GIST Tumors | Apr 2017 |
| Jake Oman, DO | PGY 2 | History of Surgery Lecture | Mar 2017 |
| Ali Abidali, DO | PGY 1 | History of Surgery Lecture: History of Medieval Surgery | Mar 2017 |
| Whitney Wilson, DO | PGY 1 | History of Surgery: The History of Negative Pressure Wound Therapy | Mar 2017 |
| Christopher Myers, DO | PGY 3 | Interesting Case Report | Mar 2017 2017 |
| Byron Holloway, DO | PGY 3 | Ileostomy Perforation with Delay in Treatment, Return to OR | Feb 2017 |
| Christopher Myers, DO | PGY 3 | History of Surgery Lecture: History of Surgery at Sea | Feb 2017 |
| Ann Holloway, DO | PGY 3 | History of Surgery: The Secret or Not So Secret Life of Dr. Halsted | Feb 2017 |
| Byron Holloway, DO | PGY 3 | History of Surgery Lecture | Feb 2017 |
| Ryan McPherson, DO | PGY 2 | History of Surgery: History of Common Surgical Instruments | Feb 2017 |
| Ann Holloway, DO, Byron Holloway, DO, Chris Myers DO | PGY 3 all | Review Equations | Jan 2017 |
| Byron Holloway, DO | PGY 3 | Perforated Colon Cancer with Delayed Treatment | Dec 2016 |
| Byron Holloway, DO | PGY 3 | Gastric Ulcers and Gastrectomy | Oct 2016 |

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|------------------------|-------|---------------------------------|-----------|
| Byron Holloway, DO | PGY 3 | Iatrogenic Hypoparathyroidism | Sept 2016 |
| Byron Holloway, DO | PGY 3 | Morbidity, Gallstone Spillage | Aug 2016 |
| Byron Holloway, DO | PGY 3 | Melanoma | Aug 2016 |
| Byron Holloway, DO | PGY 3 | Mattox Maneuvers | July 2016 |
| Christopher Myers, DO | PGY 1 | History of Surgery lectures (2) | 2014 |
| Christopher Myers, DO | PGY 1 | Interesting Case Report (2) | 2014 |
| Ann Wells Holloway, DO | PGY 1 | History of Surgery lectures (2) | 2014 |
| Ann Wells Holloway, DO | PGY 1 | Interesting Case Report (2) | 2014 |

RESIDENCY JOURNAL CLUB

| Trainee Name | PGY Year | Scholarly Project Title | Completion Date |
|---|----------|--|-----------------|
| Chris Myers, DO | PGY 3 | Onlay with Adhesive use Compared with Sublay Mesh Placement in Ventral Hernia Repair: Was Chevrel Right? An Americas Hernia Society Quality Collaborative Analysis | 6/20/17 |
| Ryan McPherson, DO | PGY 2 | Outcomes of Laparoscopic vs Open Common Bile Duct Exploration: Analysis of the NSQIP Database | 6/20/17 |
| Ann Holloway, DO | PGY 3 | Outpatient Laparoscopic Appendectomy: Feasible in a Public County Hospital | 6/20/17 |
| Whitney Wilson, DO | PGY 1 | Prognostic Scoring System to Risk Stratify Parathyroid Carcinoma | 6/20/17 |
| Byron Holloway, DO | PGY 3 | Systemic Chemotherapy Combined with Resection for Locally Advanced Gallbladder Carcinoma: Surgical and Survival Outcomes | 6/20/17 |
| Byron Holloway, DO | PGY 3 | Improving Timely Resident Follow-Up and Communication of Results in Ambulatory Clinics Utilizing a Web-based Audit and Feedback Module | 5/16/17 |
| Chris Myers, DO | PGY 3 | Identifying augmented renal clearance in trauma patients: Validation of the Augmented Renal Clearance in Trauma Intensive care scoring system | 5/16/17 |
| Ali Abidali, DO | PGY 1 | Automated variable aortic control versus complete aortic occlusion in a swine module of hemorrhage | 5/16/17 |
| Whitney Wilson, DO | PGY 1 | Trauma and psychiatric disorders: A systematic review | 5/16/17 |
| Krista Walker, DO (outside rotating res) | PGY 4 | Contrast Ct Scans in the Emergency Department Do Not Increase Risk of Adverse Renal Outcomes | 5/16/17 |
| Chris Myers, DO | PGY 3 | Mortality in patients with end-stage renal disease and the risk of returning to the operating room after common General Surgery procedures | 4/18/17 |
| Byron Holloway, DO | PGY 3 | Extracorporeal membrane oxygenation after traumatic injury | 4/18/17 |
| Whitney Wilson, DO | PGY 1 | Grit as a predictor of risk attrition in surgical residency | 4/18/17 |
| Ann Holloway, DO | PGY 3 | Consensus statement: Surgical stabilization of rib fractures rib fracture colloquium clinical practice guidelines | 4/18/17 |
| Ryan McPherson, DO | PGY 2 | Mistreatment and the learning environment for medical students on general surgery clerkship rotations: What do key stakeholders think? | 4/18/17 |
| Kimberli Bruce, NP | NP | Clinical predictors of early acute respiratory distress syndrome in trauma patients | 3/21/17 |
| Ryan McPherson, DO | PGY 2 | Establishing the First Residency Program in a New Sponsoring Institution: Addressing Regional Physician Workforce Needs | 3/21/17 |
| Ann Holloway, DO | PGY 3 | Consensus Statement: Surgical stabilization of rib fractures rib fracture colloquium clinical practice guidelines | 3/21/17 |

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| Whitney Wilson, DO | PGY 1 | Pain management for blunt thoracic trauma: A joint practice management guideline from the Eastern Association for the Surgery of Trauma and Trauma Anesthesiology Society | 3/21/17 |
| Jake Oman, DO | PGY 2 | Pain management for blunt thoracic trauma: A joint practice management guideline from the Eastern Association for the Surgery of Trauma and Trauma Anesthesiology Society | 3/21/17 |
| Ali Abidali, DO | PGY 1 | Outcomes of acute care surgical cases performed at night | 3/21/17 |
| Chris Myers, DO | PGY 3 | Differences in Resident Perceptions by Postgraduate Year of Duty Hour Policies: An Analysis from the Flexibility in Duty Hour Requirements for Surgical Trainees (FIRST) Trial | 3/21/17 |
| Ann Holloway, DO | PGY 3 | Postop antibiotic use and the incidence of intra-abdominal abscess in the setting of suppurative appendicitis: a retrospective analysis/Smaller introducer sheaths for REBOA may be associated with fewer complications/ | 2/21/17 |
| Whitney Wilson, DO | PGY 1 | The importance of empiric antibiotic dosing in critically ill trauma patients Are we under-dosing based on augmented renal clearance and inaccurate renal clearance estimates | 2/21/17 |
| Ryan McPherson, DO | PGY 2 | Getting a better look: Outcomes of laparoscopic versus transdiaphragmatic pericardial window for penetrating thoracoabdominal trauma at a Level I trauma Center | 2/21/17 |
| Ali Abidali, DO | PGY 1 | Use and Underlying Reasons for Duty Hour Flexibility in Duty Hour requirements fir Surgical Trainees (FIRST) Trial | 2/21/17 |
| Ali Abidali, DO | PGY 1 | Improving quality in geriatric surgery A blueprint from the American College of Surgeons | 1/17/17 |
| Whitney Wilson, DO | PGY 1 | The importance of empiric antibiotic dosing in critically ill trauma patients Are we under-dosing based on augmented renal clearance and inaccurate renal clearance estimates | 1/17/17 |
| Byron Holloway, DO | PGY 3 | Establishing the First Residency Program in a New Sponsoring Institution Addressing Regional Physician Workforce Needs | 1/17/17 |
| Jake Oman, DO | PGY 2 | If some is good more is better An enoxaparin dosing strategy to improve pharmacological venous thromboembolism prophylaxis | 1/17/17 |
| Jake Oman, DO | PGY 2 | Pain management for blunt thoracic trauma" A joint practice management guideline from the Eastern Association for the Surgery of Trauma and Trauma Anesthesiology Society/ | 12/20/16 |
| Ann Holloway, DO | PGY 3 | Consensus Statement: Surgical stabilization of rib fractures rib fracture colloquium clinical practice guidelines/ Outcomes of acute care surgical cases performed at night | 12/20/16 |
| Whitney Wilson, DO | PGY 1 | Pain management for blunt thoracic trauma: A joint practice management guideline from the Eastern Association for the Surgery of Trauma and Trauma Anesthesiology Society/ Impact of income inequality on the nation's health | 12/20/16 |
| Chris Myers, DO | PGY 3 | Colonoscopy after Hinchey I and II left-sided diverticulitis: utility or futility? | 12/20/16 |
| Ryan McPherson, DO | PGY 2 | Outcomes of abdominal surgery in patients receiving mechanical ventilation for more than 48 hours | 12/20/16 |
| Ali Abidali, DO | PGY 1 | Requirements for Certification in Surgery: A Comparison of the American Board and the American Osteopathic Board of Surgery | 12/20/16 |
| Byron Holloway, DO | PGY 3 | Hand-assisted laparoscopic vs open colectomy: an assessment from the American College of Surgeons National Surgical Quality Improvement Program procedure-targeted cohort | 12/20/16 |
| Ali Abidali, DO | PGY 1 | 7 Deadly Sins in Educational Research | 11/15/16 |
| Byron Holloway, DO | PGY 3 | Development of Collateral Pathways in Tumor Obstruction of Confluence of the Hepatic Veins: Neither Fortuitous bot Innocuous | 11/15/16 |

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| Gina Shirah, MD | Faculty | Early Clinical Outcomes of a Novel Antibiotic-Coated, Non-Crosslinked Porcine Acellular Dermal Graft After Complex Abdominal Wall Reconstruction | 11/15/16 |
| Whitney Wilson, DO | PGY 1 | Impact of Income Inequality on the Nation's Health | 11/15/16 |
| Ryan McPherson, DO | PGY 2 | Physician-Owned Surgical Hospitals Outperform Other Hospitals in Medicare Value-Based Purchasing Program | 11/15/16 |
| Jake Oman, DO | PGY 2 | Relationship Between Operating Room Teamwork, Contextual Factors and Safety checklist Performance | 11/15/16 |
| Ryan McPherson, DO | PGY 2 | Arterial trauma during central venous catheter insertion: Case series, review and proposed algorithm | 10/18/16 |
| Whitney Wilson, DO | PGY 1 | Surgical Comanagement by Hospitalists Improves Patient Outcomes | 10/18/16 |
| Chris Myers, DO | PGY 3 | Management of Inadvertent Carotid Artery Sheath Insertion During Central Venous Catheter Placement | 10/18/16 |
| Jake Oman, DO | PGY 2 | Minimally Invasive Versus Open Pancreatoduodenectomy Systematic Review and Meta-analysis of Comparative Cohort and Registry Studies | 10/18/16 |
| Beshoy Nashed, DO (outside rotating res) rwsident) | PGY 4 | Diagnostic Accuracy of Procalcitonin and C-reactive Protein for the Early Diagnosis of Intra-abdominal Infection After Elective Colorectal Surgery | 10/18/16 |
| Ali Abidali, DO | PGY 1 | Requirement for Certification in Surgery: A Comparison of the American Board of Surgery and the American Osteopathic Board of Surgery | 10/18/16 |
| Ann Holloway, DO | PGY 3 | A Procalcitonin-Based Algorithm to Guide Antibiotic Therapy in Secondary Peritonitis following Emergency Surgery | 9/20/16 |
| Jake Oman, DO | PGY 2 | Prehospital traumatic cardiac arrest: Management and outcomes from the resuscitation outcomes consortium epistry-trauma and PROPHET registries | 9/20/16 |
| Byron Holloway, DO | PGY 3 | Never giving up: outcomes and presentation of emergency general surgery in geriatric octogenarian and nonagenarian patients | 9/20/16 |
| Whitney Wilson, DO | PGY 1 | Computed tomography to operating room in less than 3 hours minimizes complications from appendicitis | 9/20/16 |
| Chris Myers, DO | PGY 3 | First and repeat liver resection for primary and recurrent intrahepatic cholangiocarcinoma | 9/20/16 |
| Ali Abidali, DO | PGY 1 | Current challenges in the surgical management of Crohn's disease: a systematic review | 9/20/16 |
| Ryan McPherson, DO | PGY 2 | Association of Safety Culture with Surgical Site Infection Outcomes | 8/16/16 |
| Ann Holloway, DO | PGY 3 | Contemporary outcomes of lower extremity vascular repairs extending below the knee: A multicenter retrospective study | 8/16/16 |
| Byron Holloway, DO | PGY 3 | Diagnosis and Treatment of melanoma. European consensus-based interdisciplinary guideline – Update 2016 | 8/16/16 |
| Chris Myers, DO | PGY 3 | Endoscopy After Bariatric Surgery | 8/16/16 |
| Ryan McPherson, DO | PGY 2 | How long should we fear? Long-term risk of venous thromboembolism in patients with traumatic brain injury | 8/16/16 |
| Jake Oman, DO | PGY 2 | Managing the surge in demand for blood following mass casualty events: Early automatic restocking may preserve red cell supply | 8/16/16 |
| Chris Myers, DO | PGY 3 | Adjuvant Therapy in Pancreas: Does it Influence Patterns of Recurrence? | 7/19/16 |
| Jake Oman, DO | PGY 2 | Outpatient Laparoscopic Appendectomy: Is It Time to End the Discussion? | 7/19/16 |
| Ann Holloway, DO | PGY 3 | Patients with Complicated Intra-abdominal Infection Presenting with Sepsis Do Not Require Longer Duration of Antimicrobial Therapy | 7/19/16 |
| Ryan McPherson, DO | PGY 2 | Trends in Follow-Up of Patients Presenting to the Emergency Department with Symptomatic Cholelithiasis | 7/19/16 |

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| Ann Wells Holloway, DO | PGY 4 | "Surgery and hormone replacement therapy trends in octogenarians with invasive breast cancer" | 6/21/2016 |
| Jake Oman, DO | PGY 2 | "The appropriate measurement of post discharge readmissions in Medicare colon surgery" | 6/21/2016 |
| Ann Wells Holloway, DO; Christopher Myers, DO | PGY 4; PGY 3 | "When patients call their surgeon's office: an opportunity to improve the quality of surgical care and prevent readmissions" | 6/21/2016 |
| Jake Oman, DO | PGY 2 | "Traumatic vascular injuries: who are repairing them and what are the outcomes?" | 6/21/2016 |
| Christopher Myers, DO | PGY 3 | "Readability of discharge summaries: with what level of information are we dismissing our patients?" | 6/21/2016 |
| Jake Oman, DO | PGY 2 | "Abdominal Compartment Syndrome in Traumatic Hemorrhagic Shock: Is There a Fluid Resuscitation Inflection Point Associated with Increased Risk?" | 5/17/2016 |
| Christopher Myers, DO | PGY 3 | "A Disease-Specific Hybrid Rotation Increases Opportunities for Deliberate Practice" | 5/17/2016 |
| Ryan McPherson, DO | PGY 2 | "Fidaxomicin Versus Vancomycin for Clostridium Difficile Infection" | 5/17/2016 |
| Ann Wells Holloway, DO | PGY 4 | "Whatever Happens to Trauma Patients Wo leave Against Medical Advice?" | 5/17/2016 |
| Jake Oman, DO | PGY 2 | "Standardizing Patient Outcomes Measurement" | 4/19/2016 |
| Ryan McPherson, DO | PGY 2 | "Western Trauma Association Critical Decisions in Trauma:Management of the mangled Extremity fYVTA 2011 Plenary Paper)" | 4/19/2016 |
| Ann Wells Holloway, DO; Christopher Myers, DO | PGY 4; PGY 3 | "The Third International Consensus Definitions for Sepsis and Septic shock (Sepsis-3)" | 4/19/2016 |
| Ann Wells Holloway, DO | PGY 4 | "Shared Decision Making in Uncomplicated Appendicitis. It is time to include Nonoperative Management" | 3/15/2016 |
| Jake Oman, DO | PGY 2 | "Preoperative Testing for Hip Fracture Patients Delays Surgery, Prolongs Hospital Stays, and Rarely Dictates Care" | 3/15/2016 |
| Ryan McPherson, DO | PGY 2 | "A Comparison of Google Glass and Traditional Video Vantage Points for Bedside Procedural Skill Assessment" | 3/15/2016 |
| Ann Wells Holloway, DO; Christopher Myers, DO; Jake Oman, DO; Ryan McPherson, DO | PGY 4; PGY 3; PGY 2; PGY 2 | "The Accuracy and Clinical Utility of Pont of Care Platelet Function Assays in the Adult Trauma Population" | 3/15/2016 |
| Jake Oman, DO | PGY 2 | "Predictors of Recurrence of Umbilical Hernias Following Primary Tissue Repair in Obese Veterans" | 2/16/2016 |
| Christopher Myers, DO | PGY 3 | "Tobacco Smoking and Postoperative Outcomes after Colorectal Surgery" | 2/16/2016 |
| Ryan McPherson, DO | PGY 2 | "An Evidence Based Approach to Patient Selection" | 2/16/2016 |
| Ryan McPherson, DO | PGY 2 | "Pledging to Eliminate Low-Volume Surgery" | 1/19/2016 |
| Ryan McPherson, DO | PGY 2 | Discuss & Compare co-presentation with faculty (Dr Oguntodu): "Inguinal Hernia Repair with Parietex ProGrip Mesh Causes Minimal Discomfort and Allows Early Return to Normal Activities Preperitoneal Surgery Using a Self-Adhesive Mesh for Inguinal Hernia Repair" | 1/19/2016 |
| Ann Wells Holloway, DO; Christopher Myers, DO | PGY 4; PGY 3 | "Training Physicians to Provide High-Value, Cost-Conscious Care A Systematic Review" | 1/19/2016 |

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| Christopher Myers, DO | PGY 1 | "Thoracic Ultrasound can predict safe removal of Thoracotomy Tubes" | 2015 |
| Christopher Myers, DO | PGY 1 | "Normocalcemic Hyperparathyroidism: Preoperatively A Disease, Postoperatively Cured?" | 2015 |
| Christopher Myers, DO | PGY 1 | "Ventilation with lower tidal volumes as compared with traditional tidal volumes for acute lung injury and the acute respiratory distress syndrome" | 2015 |
| Ann Wells Holloway, DO | PGY 1 | "Basic endovascular skills for trauma course: Bridging the gap between endovascular techniques and the acute care surgeon" | 2015 |

Faculty Activities

PRESENTATIONS/POSTERS/ABSTRACTS

| Faculty Name(s) | Scholarly Project Title | Completion Date |
|---------------------------|---|-----------------|
| Mangram, A MD | Presented: AEMS Odyssey "Hips and Head Bleeds in Geriatric Patient Falls" | June 2017 |
| Mangram, A MD | Presented: Longitudinal Learning: Maintaining Professional Competence and Excellence Over the Course of Your Career | Mar 2017 |
| Mangram, A MD | Presented: Chest Wall Injury Summit, Techniques and Exposure Lab | Mar 2017 |
| Mangram, A MD | Presented: Diversity & Mentorship in Medicine, "Longitudinal Learning: Maintaining Professional Competence and Excellence over the Course of Your Career" | Mar 2017 |
| Ali-Osman, F MD | Presented: Chest Wall Injury Summit, Techniques and Exposures Lab | Mar 2017 |
| Ali-Osman, F MD | Presented: Surgical Stabilization of rib fractures rib fracture colloquium clinical practice guidelines | Feb 2017 |
| Mangram, A MD | Presented: 39 th Annual American College of Surgeons – Committee on Trauma Advances in Trauma Presenter "G-60 Geriatric Trauma – Building a G-60 Trauma Service" | Dec 2016 |
| Mangram, A MD | Presented: 39 th Annual American College of Surgeons – Committee on Trauma Advances in Trauma Presenter "Rib Fixation Using Minimally Invasive Muscle Sparing Thoracotomy in Geriatric Trauma Patients" | Dec 2016 |
| Mangram, A MD | Presented: 8 th Annual Southwest Trauma & Acute Care Consortium Presenter "Process Improvement: Closing the Loop" | Nov 2016 |
| Ali-Osman, F MD | Presented: Arizona Trauma Association Annual Meeting: Operative Rib Fixation Using Minimally Invasive Muscle Sparing Thoracotomy in Geriatric Patients | Nov 2016 |
| Ali-Osman, F MD | Presented: TQIP Annual Meeting: Operative Rib Fixation Using Minimally Invasive Muscle Sparing Thoracotomy (MSMIT) in Geriatric Trauma Patients | Nov 2016 |
| Mangram, A MD | Presented: Arizona Geriatric Society Fall Symposium "The Future of Geriatrics: A Person-Centered Paradigm", oral presentation " Better Call an Ambulance" The Older Adult in the Emergency Center" | Oct 2016 |
| Mangram, A MD; Shirah, G. | Presented poster: Trauma Center Association of America Annual Meeting "Tackle Trauma 5K Run/Walk" | Oct 2016 |
| Dzandu J | Presented: F Ali-Osman, A Mangram, G Shirah, J Sucher, A Hollingworth, F Oguntodu, J Dzandu. "Rib Fixation Using the Muscle Sparing Minimally Invasive Thoracotomy Technique Is Associated with Improved Pulmonary Function." Southwestern Surgical Congress 2016 | 2016 |
| Rassadi R | Presented: "General Surgery Abdominal Emergencies", HonorHealth Trauma and General Surgery Educational Lecture CME, May 24, 2016 | 2016 |
| Durrani S | Presented: "Pheochromocytoma ", HonorHealth Trauma and General Surgery Educational Lecture CME, February 23, 2016 | 2016 |
| Hall S | Presented: "Getting to Know Your Pharmacist". Aging Adult Health and Wellness Fair, HonorHealth John C. Lincoln Medical Center; Phoenix, AZ March 2016 | 2016 |
| Mangram A | Presented: "Innovation in Geriatric Trauma: Become a Leader in the New Trauma Culture Change", 4 th International Conference on Nursing & Healthcare, San Francisco, CA October 5, 2015 | 2015 |
| Mangram A | Presented: "Geriatric Trauma – The Evolution of G60 and Innovative Management Strategies", Surgery College of Medicine, Chicago, IL (August 19, 2015). | 2015 |
| Mangram A | Presented: "G-60 Past, Present, Future". AEMS Odyssey (June 2015). | 2015 |
| Mangram A | Presented: Mangram A, Rodriguez F, Oguntodu O, Dzandu J. "Laparoscopic Nissen Fundoplication Using A Left Posterior Approach Minimizes Esophageal Injury: Our Experience" (April 2015). Southwestern Surgical Congress Annual Meeting, Monterey CA | 2015 |
| Mangram A, Dzandu J | Presented abstract: Mangram A, Zhou N, Sohn J, Hollingworth A, Ali-Osman F, Sucher J, Moeser M, Moyer J, Dzandu J. "Pleural Effusion Following Rib Fractures in the Elderly: Are We | 2015 |

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| | Being Aggressive Enough?" Southwestern Surgical Congress Annual Meeting, Monterey CA. (April 2015). | |
| Mangram A | Presented abstract: Mangram A, Oguntodu O, Barletta J, Hall S, Cung C, Rodriguez J, Dzandu J. "Three Versus Four-Factor Prothrombin Complex Concentrates to Reverse Oral Anticoagulation In Patients Following Trauma." Southwestern Surgical Congress Annual Meeting, Monterey CA. (April 2015). | 2015 |
| Mangram A, Dzandu J | Presented Scientific Paper Abstract : Mangram A, Sohn J, Zhou N, Hollingworth A, Ali-Osman F, Sucher J, Moyer M, Dzandu J. "Trauma-Associated Pneumonia: Time to Redefine ventilator-Associated Pneumonia In Trauma Patients." Surgical Congress Annual Meeting, Monterey CA. (April 2015). | 2015 |
| Mangram A | Presented: "Geriatric Falls and Hip Fx". Western Trauma Association (March 2015) | 2015 |
| Sucher J | Presented: "Bullets and Bandages – Thoracic Trauma in Combat". The Arizona Society of Respiratory Care Conference – Phoenix, Arizona; September 1, 2015 | 2015 |
| Sucher J | Presented: "Infectious Diseases and War – A Historical Review". North Mountain John C Lincoln Hospital Surgical Grand Rounds – Phoenix, Arizona; July 28, 2015 | 2015 |
| Sucher J | Presented: "Infectious Diseases and War – A Historical Review". Honor Health Medical Staff Retreat, Santa Monica, California; June 7, 2015 | 2015 |
| Sucher J | Presented: "EMS Hand--off in Geriatric Trauma". First Annual G60 Conference – Phoenix, Arizona; May 21, 2015 | 2015 |
| Sucher J | Presented: "Mechanisms of Geriatric Injury – and More". First Annual G60 Conference – Phoenix, Arizona; May 21, 2015 | 2015 |
| Dzandu J | Presented: Mark Seifert, James Dzandu. "Catheter Ablation of Atrial Fibrillation Using a Sensor-Based Navigation System to Achieve Near Zero Fluoroscopy Time and Enable Same-Day Hospital Discharge: Initial Experience at a Community Hospital." Heart Rhythm Conference, Boston MA, 2015. | 2015 |
| Dzandu J | Presented: Mark Seifert, James Dzandu. "Catheter Ablation of Atrial Fibrillation using a Sensor-Based 3-D Navigation System is safe and Effective: A Community Hospital-based Experience." Heart Rhythm Conference, Boston MA, 2015. | 2015 |
| Hall S | Presented: Kim JJ, VanDenBerg C, Huang V, Hall S, Barletta J. "Evaluation of tigecycline and its role in mortality." 2015 ACCP Global Conference on Clinical Pharmacy; San Francisco, CA. October 2015 | 2015 |
| Hall S | Presented: Kim JJ, Sucher JF, Robinson LB, Mangram A, Huang V, Hall S, Barletta J. "Brevundimonas vesicularis pneumonia post equestrian injuries: a culture confirmed case report." 2015 ACCP Global Conference on Clinical Pharmacy; San Francisco, CA. October 2015 | 2015 |
| Hall S | Presented: "Anticoagulation Reversal" Emergency Medicine Educational Series, HonorHealth John C. Lincoln Medical Center; Phoenix, AZ October 2015 | 2015 |
| Hall S | Presented: "Hard Pills to Swallow: Drugs and Dysphagia". Speech Therapy inservice, HonorHealth John C. Lincoln Medical Center; Phoenix, AZ, September 2015 | 2015 |
| Hall S | Presented: "Hey Pharmacist! Common Questions About Drugs in the ED" Emergency Medicine Educational Series, HonorHealth John C. Lincoln Medical Center; Phoenix, AZ September 2015 | 2015 |
| Hall S | Presented: "2015 Update on Designer Drugs of Abuse." EMS Lecture Series, HonorHealth John C. Lincoln Medical Center; Phoenix, AZ September 2015 | 2015 |
| Hall S | Presented: Mangram AJ, Oguntodu OF, Barletta JF, Hall S, Cung C, Rodriguez J, Dzandu JK. "Three versus four factor prothrombin complex concentrates to reverse oral anticoagulation in patients following trauma." Southwest Surgical Congress 67th Annual Meeting. Monterey, CA. April, 2015 | 2015 |
| Mangram A | Presented: "Outcomes of Hip Fractures in Geriatric Patients Based on Fracture Pattern" Southwest Trauma & Acute Care Symposium (STACS) (November 13-14 2014). | 2014 |
| Mangram A, Dzandu J | Presented: "Vulnerable Elderly Study Scores (VES 13), Hip Fracture Patterns and Outcomes in Geriatric Trauma Patients" Trauma Quality Improvement Program (TQIP), November 9-11, 2014 | 2014 |
| Rodriguez F, Dzandu J | Presented: AJ Mangram, FN Rodriguez, JK Dzandu, R Rassadi . "Accepting the Challenge: General Surgeons Partnering with Hospital Administrators to Manage Quality Care Initiatives." American College of Surgeon Clinical Congress Moscone Center San Francisco, CA October 24-30. 2014. | 2014 |

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| Sucher J | Presented: "Blood Substitutes in Trauma Surgery". Arizona Trauma and Acute Care Consortium Grand Rounds – Phoenix, Arizona; May 13, 2014 | 2014 |
| Sucher J | Presented: "First Responders in War Surgery" –Glendale Regional Public Safety Training Center – Glendale, Arizona; April 3, 2014 | 2014 |
| Sucher J | Presented: "War Surgery – The Impact on Civilian Trauma" – Deer Valley John C Lincoln Hospital Surgical Grand Rounds – Phoenix, Arizona; February 10, 2014 | 2014 |
| Dzandu J | Presented: Alicia Mangram, James K Dzandu, Jacqueline Sohn, Nicolas Zhou. Melissa Moyer, Alexandra Hollingworth, Jallow, Shaun Stienstra, Kalyan Chaliki, Mary Collins, Arleen Steinstra, Cecile D’Huyvetter, Marilyn Byrne, Phillip Moeser, Joseph Sucher. "Understanding Trauma Associated Pneumonia (TAP): Redefining Ventilator Associated Pneumonia (VAP) in Trauma Patients." Trauma Quality Improvement Program (TQIP) Sheraton Hotel, Chicago, IL November 9–11, 2014 | 2014 |
| Dzandu J | Presented: Olakunle F. Oguntodu, James K. Dzandu, Phillip Moeser, Laura J. Prokuski, Alicia Mangram. "Geriatric Trauma Hip Fracture: Is there a difference in Outcomes Based on Fracture Pattern?" Southwest Trauma & Acute Care Symposium (STACS) Talking Sticks Resort Scottsdale, AZ November 13-14, 2014 | 2014 |
| Hall S | Presented: "Protect the Patient, Protect Yourself: Safe Practice, State Requirements & Documentation Tips - Pharmacy Perspectives" Nursing Grand Rounds, John C. Lincoln North Mountain Hospital; Phoenix, AZ October 2014 | 2014 |
| Hall S | Presented: "Short on Propofol Again: Alternative Agents for Procedural Sedation". ED Lecture Series, John C. Lincoln North Mountain Hospital; Phoenix, AZ, October 2014 | 2014 |
| Hall S | Presented: "Medication reconciliation by pharmacy technicians, student interns." ASHP Pharmacy Practice Model Initiative. | 2013 |
| Hall S | Presented: "Inhaled corticosteroids. Drug class review." MIHS Pharmacy and Therapeutics Committee. | 2013 |
| Hollingworth | Presented: Critical Care lectures for Critical Care RN's 2013 | 2013 |
| Rodriguez F, Dzandu J | Presented: Mangram A, Rodriguez F, Shively CJ, et al. "Robotic assisted single-incision gasless trans-axillary thyroidectomy is a safe and effective alternative after FNA showing follicular/Hurthle or suspicious carcinoma cytology." Southwestern Surgical Congress 2013 Annual Meeting Bacara Resort, Santa Barbara, CA, March 26, 2013 | 2013 |
| Sucher J | Presented: "Hemorrhage, Shock and Awe" – North Mountain John C Lincoln Hospital Surgical Grand Rounds – Phoenix, Arizona; November 26, 2013 | 2013 |
| Sucher J | Presented: "Shock & Awe – The War on Hemorrhage" – The Methodist Hospital Surgical Grand Rounds – Houston, Texas; January 30, 2013 | 2013 |
| Hall S | Presented: "Dexmedetomidine. Medication use evaluation." MIHS Pharmacy and Therapeutics Committee, June 2012 | 2012 |
| Hall S | Presented: "Abacavir hypersensitivity patients who test negative for the HLA-B*5701 allele." MIHS Pharmacy Capsule. | 2012 |
| Hall S | Presented: "Can albumin be added to TPN?" MIHS Pharmacy Capsule. | 2012 |
| Ali-Osman F | Presented: "Fundamentals of Burn Care" University of Texas Southwestern Medical Center', Medical School, 10/29/2012 | 2012 |
| Ali-Osman F | Presented: "Those Hard to Pin Down Injuries" Parkland Health and Hospital Systems Trauma Outreach Education and Injury Prevention, Flower Mound Emergency Medical Services, 08/01/2012 | 2012 |
| Ali-Osman F | Presented: "Trauma: Basic Principles in Trauma Care" University of Texas Southwestern Medical Center, Physician Assistant Studies Department, 06/27/2012 | 2012 |
| Hollingworth | Presented: Nursing and Paramedic lectures 2012 | 2012 |
| Hollingworth | Presented: "Abdominal Compartment Syndrome " Trauma Grand rounds, 2012 | 2012 |
| Shirah G | Presented: Shirah GR, Kopelman T, O'Neill, P, Vail S, Pieri P, Pressman M. "Recurrence or Insufficient Treatment? A study of 8 day Antibiotic Treatment for Ventilator Associated Pneumonia." Society of Critical Care Medicine, February 2012 | 2012 |
| Ali-Osman F | Presented: "Early Non-Bronchoscopic Broncho-Alveolar Lavage (screening-BAL): Predictor of Ventilator Associated Pneumonia (VAP) in Neuro -Trauma Patients?" Neurocritical Care Society 10th Annual Meeting, Denver, CO.: October 6, 2012 | 2012 |
| Hall S | Presented: "Intravenous immunoglobulin. Medication use evaluation." MIHS Pharmacy and Therapeutics Committee, Nov 2011 | 2011 |

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| Hall S | Presented: "Medication options for refractory status asthmaticus." MIHS Pharmacy Capsule. | 2011 |
| Hall S | Presented: "Can Keppra cause behavioral changes?" MIHS Pharmacy Capsule. | 2011 |
| Ali-Osman F | Presented: "Management of Solid Organ Abdominal Injuries" University of Texas Southwestern Medical Center, Department of Surgery Grand Rounds, 11/12/2011 | 2011 |
| Ali-Osman F | Presented: "Abdominal Vascular Injuries" University of Texas Health Science Center at San Antonio, Department of Surgery Grand Rounds, 01/03/2011 | 2011 |
| Hall S | Presented: Hall S, Salek, F, Glover JJ, Hall E. "Description of a pharmacy technician and student intern-driven medication reconciliation process and Evaluation of medical provider acceptance of recommendations to reorder critical medications." 46th ASHP Midyear Clinical Meeting; New Orleans, LA December 2011 | 2011 |
| Hall S | Presented Poster: Hall S, Salek, F, Glover JJ, Hall E. "Description of a pharmacy technician and student intern-driven medication reconciliation process and Evaluation of medical provider acceptance of recommendations to reorder critical medications." 7th Annual Arizona Pharmacy Alliance meeting, July 2011 | 2011 |

PROFESSIONAL ACTIVITIES/COMMITTEES

| Faculty Name(s) | Scholarly Project Title | Completion Date |
|-----------------|---|-----------------|
| Mangram A | Arizona Trauma Association (2009-Present), served as President 2015-2016 | Ongoing |
| Mangram A | Western Trauma Association: Board of Directors 2012 - Current | Ongoing |
| Mangram A | American College of Surgeons: Re- Appointed Member of Advisory Board, 2012 - Current | Ongoing |
| Mangram A | Southwestern Surgical Congress: Executive Committee 2009 – Current | Ongoing |
| Mangram A | Red Cross, Arizona Chapter: Board of Directors 2015 - 2017 | 2015 - 2017 |
| Ali-Osman F | Course Faculty: Thoracic Trauma Technology Symposium - DePuy Synthes | 2015/2016 |
| Ali-Osman F | Arizona Trauma Association 2013 - Present | Ongoing |
| Ali-Osman F | At Large Member Medical Board (elected) HonorHealth John C. Lincoln Medical Center 2016-Present | Ongoing |
| Hollingworth A | Co-Chair Medical Student Subcommittee: HonorHealth, 2015-Present | Ongoing |
| Hollingworth A | Co-Chair Faculty Development: HonorHealth, 2015-Present | Ongoing |
| Low R | Single Incision Laparoscopic Surgery, 2008-Present | Ongoing |
| Low R | Laparoscopic Ventral/Incisional Hernia Surgery, 2008-Present | Ongoing |
| Low R | Laparoscopic Inguinal Hernia Surgery, 2008-Present | Ongoing |
| Rassadi R | American College of Surgeons, Candidate Member, 2002-Present | Ongoing |
| Sucher J | Member, Arizona Trauma Association, 2013-Present | Ongoing |
| Sucher J | Fellow/Member, The Southwest Surgical Congress, 2008-Present | Ongoing |
| Sucher J | Fellow, American College of Surgeons, 2007-Present | Ongoing |
| Sucher J | Member, Society of Critical Care Medicine, 2004-Present | Ongoing |
| Durrani S | Clinic Instructor of Surgery, 2016-Present | Ongoing |
| Dzandu J | Institutional Review Board, Consultant and Acting Chairman, Dallas Methodist Health System, 2015-Present | Ongoing |
| Dzandu J | Trauma Research Manager, HonorHealth John C. Lincoln Medical Center, 2011-Present | Ongoing |
| Hall S | Pharmacy and Therapeutics Committee; HonorHealth. 2015-Present | Ongoing |
| Hall S | Trauma Performance Improvement Committee; HonorHealth John C. Lincoln Medical Center, 2014-Present | Ongoing |
| Hall S | Antibiotic Stewardship Committee; HonorHealth John C. Lincoln Medical Center, 2013-Present | Ongoing |
| Hall S | American College of Clinical Pharmacy, 2011-Present | Ongoing |
| Hall S | American Society of Health-System Pharmacists, 2007-Present | Ongoing |
| Mangram A | Red Cross, Arizona Chapter: Board of Directors 2015 | 2015 |
| Mangram A | State Trauma Advisory Board (STAB): Committee Member (System Leadership) and Committee Chair (Geriatric Trauma) | 2013 |
| Sucher J | Member, Texas Chapter of the Society of Critical Care Medicine, 2006-2013 | 2013 |
| Sucher J | Member, Harris County Surgical Society, 2006-2013 | 2013 |

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| Hall S | Delirium Committee; HonorHealth John C. Lincoln Medical Center, 2012-2013 | 2013 |
| Ali-Osman F | Antibiotic Use - Parkland Health and Hospital Systems: Member, 2011-2012 | 2012 |
| Ali-Osman F | Surgical Intensive Care Unit Quality Improvement - Parkland Health and Hospital Systems: Member, 2011-2012 | 2012 |
| Ali-Osman F | Surgical Intensive Care Unit Protocol Development - Parkland Health and Hospital System: Member, 2011-2012 | 2012 |
| Sucher J | Member, American Medical Informatics Association, 2008-2012 | 2012 |

PUBLISHED CHAPTER OR TEXTBOOK

| Faculty Name(s) | Scholarly Project Title | Completion Date |
|-------------------------------------|---|-----------------|
| Mangram A, Dzandu J, Hollingworth A | "Small Bowel Obstruction." In: Common Problems in Acute Care Surgery, 2 nd ed. (L. Moore) | 2017 |
| Hollingworth A, Mangram A, Dzandu J | "Small Bowel Obstruction." In: Common Problems in Acute Care Surgery (L. Moore) | 2013 |
| Sucher J | "Abdominal Wall Hernias For The Acute Care Surgeon." In Common Problems in Acute Care Surgery (L. Moore) | 2013 |
| Sucher J | "Bedside Laparoscopy in the Intensive Care Unit." In Textbook of Critical Care, 6 th ed (J.L. Vincent) | 2012 |
| Mangram, A | "The Acute Care Surgeon: Today's General Surgeon." Submitted to ASST, Sept 2011 | 2011 |

PUBLISHED JOURNAL ARTICLE/ABSTRACT

| Faculty Name(s) | Scholarly Project Title | Completion Date |
|--|--|-----------------|
| Sucher JF, Dzandu J, Mangram AJ, | Barletta JF, Hall S, Sucher JF, Dzandu JK, Haley M, Mangram AJ. "The Impact of pre-injury direct oral anticoagulants compared to warfarin in geriatric G-60 trauma patients." <i>Eur J Trauma Emerg Surg</i> 43:445-449 | 2017 |
| Mangram, A., Oguntodu O, Dzandu, J., Hollingworth, Al, Hall, S., Cung, C., Rodriguez J., Yusupov, I., Barletta, J. | Mangram, A., Oguntodu O, Dzandu, J., Hollingworth, Al, Hall, S., Cung, C., Rodriguez J., Yusupov, I., Barletta, J. "Is there a Difference in Efficacy, Safety and Cost-effectiveness between Three Factor and Four Factor Prothrombin Complex Concentrates among Trauma Patients on Oral Anticoagulants?" <i>Journal of Critical Care</i> . June 2016. | 2016 |
| Dzandu, J., Mangram, A. | Nelson, C., Elta, T., Bannister, J., Dzandu, J., Mangram, A., Zach, V. "Severe Traumatic Brain Injury: A Case Report." <i>American Journal of Case Reports</i> . March 2016. | 2016 |
| Mangram A | Johnson, K., Diana, S., Todd, J., McFarren, A., Domb, A., Mangram, A., Veale, K.. "Early Recognition of Delirium in a Trauma Intensive Care Unit." <i>Intensive and Critical Care Nursing</i> . February 2016. | 2016 |
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| Mangram, A., Rodriguez, F., Oguntodu, O., Dzandu, J | Mangram, A., Rodriguez, F., Oguntodu, O., Dzandu, J. "Laparoscopic Nissen Fundoplication Using a Left Posterior Approach Minimizes Esophageal Injury: Our Experience." Surgical Endoscopy. <i>In Press</i> . | 2016 |
| Mangram A., Hollingworth A., Ali-Osman F., Sucher J., Dzandu J. | Mangram A., Sohn J., Zhou N., Hollingworth A., Ali-Osman F., Sucher J., Moyer M., Dzandu J. "Trauma Associated Pneumonia: Time to Redefine Ventilator-Associated Pneumonia in Trauma Patients." American Journal of Surgery. December 2015. | 2015 |
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| Dzandu J, Mangram A, Hollingworth A, Ali-Osman F, Sucher J | Dzandu J, Mangram A, Hollingworth A, Ali-Osman F, Sucher J, Moyer M, Zhou N, Sohn J. "Trauma-associated pneumonia: time to redefine ventilator-associated pneumonia in trauma patients." American Journal of Surgery. | 2015 |
| Sucher J | Collaborator: Lilly CM, Zubrow MT, Kopec IC, et al. "Critical Care Telemedicine: Evolution and State of The Art." Critical Care Medicine. November 2014. | 2014 |
| Mangram A, Oguntodu O, Rodriguez F, Rassadi R, Dzandu J. | Mangram A, Oguntodu O, Rodriguez F, Rassadi R, Haley M, Shively C, Dzandu J. "Preperitoneal Surgery Using a Self-Adhesive Mesh for Inguinal Repairs." Journal of the Society of Laparoscopic Surgeons. October 2014. | 2014 |

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| Dzandu J., Mangram A | Dzandu J., Mangram A. "Pre-Injury VES-13 Score at admission Predicts Discharge Disposition for Geriatric Trauma Patients." Annals of Gerontology and Geriatric Research. October 2014. | 2014 |
| Hall S | Hall S. "From A to Z: Clinical Pearls for the Acute Care Pharmacist. Part 1. 'Rare Diseases Electronic Resources, Nuclear Materials Exposure, Alternative Thrombolytic Administration in Pulmonary Embolism.' " Arizona Journal of Pharmacy. | 2014 |
| Sucher J | Sucher J. "Evaluation of Ultrasound For Identification Of Abdominal Wall Myofascial Components By Novice Learners." Surgical Endoscopy. June 2013. | 2013 |
| Mangram A | Mangram A. "ACS TQIP Expert Panel: TQIP Management Guidelines" American College of Surgeons. | 2013 |
| Shirah G | Shirah G. "The Blue Man: Burn from muriatic acid combined with chlorinated paint in an adult pool construction worker." Journal of Burn Care and Research. Accepted 2013. | 2013 |
| Shirah G | Shirah G. "Recurrence or Insufficient Treatment? A study of 8 day Antibiotic Treatment for Ventilator Associated Pneumonia." Journal for the Society of Critical Care Medicine. Accepted 2013. | 2013 |
| Hall S | Hall S. "Alternative dosing of prophylactic enoxaparin in the trauma patient: is more the answer?" American Journal of Surgery. | 2013 |
| Sucher J | Sucher J. "The Identification of Thyroid Dysfunction in Surgical Sepsis." Journal of Trauma and Acute Care Surgery. December 2012. | 2012 |
| Mangram A | Mangram A. "Who Will Cover the Cost of Undocumented Immigrant Trauma Care?" Journal of Trauma and Acute Care Surgery. March 2012. | 2012 |
| Mangram A | Mangram A. "Geriatric Trauma Service: A one-year experience." Journal of Trauma. | 2012 |
| Sucher J | Sucher J. "Robotic Telepresence: A Helpful Adjunct That Is Viewed Favorably By Critically Ill Patients". American Journal of Surgery. | 2011 |
| Sucher J | Sucher J. "Computer Protocol Facilitates Evidence--Based Care of Sepsis in the Surgical Intensive Care Unit." Journal of Trauma. | 2011 |
| Sucher J | Sucher J. "The Epidemiology of Sepsis in General Surgery Patients." Journal of Trauma. | 2011 |
| Sucher J | Sucher J. "Identification of Cardiac Dysfunction in Sepsis with B--Type Natriuretic Peptide." Journal of the American College of Surgery. | 2011 |
| Sucher J | Sucher J. "Baseline Cytokine Profiles Differentiate Survivors from Non Survivors in Patients with Surgical Sepsis." Shock. | 2011 |
| Hall S | "A case of sulphasalazine [sic] potentiating the hypoprothombinemic effect of warfarin resulting in bleeding." Journal of Clinical Pharmacology & Therapeutics. | 2011 |

RESIDENCY BASIC SCIENCE CONFERENCE

| Faculty Name(s) | Scholarly Project Title | Completion Date |
|----------------------|--|-----------------|
| Hollingworth, A., MD | Pre-Op Evaluation | 2016-2017 |
| Mangram, A., MD | Trauma | 2016-2017 |
| Ali-Osman, F., MD | Fluids/Electrolytes | 2016-2017 |
| Durrani, S., MD | Gall Bladder | 2016-2017 |
| Shirah, G., MD | Metabolic Response & Nutrition | 2016-2017 |
| Rassadi, R., MD | Inguinal Hernia, Femoral Hernia & Ventral Hernia | 2016-2017 |
| Shirah, G., MD | Wound Healing | 2016-2017 |
| Hashimoto, L., MD | Liver Abscess and Hepatic Mass | 2016-2017 |
| Rassadi, R., MD | Pancreas – Tumors, Procedures, Pancreatitis | 2016-2017 |

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|---|--|-----------|
| Ali-Osman, F., MD | Spleen | 2016-2017 |
| Johnson, V., MD | Critical Care – Ethics | 2016-2017 |
| Mangram, A., MD | Esophagus | 2016-2017 |
| Hollingworth, A., MD | Pediatric | 2016-2017 |
| Rassadi, R., MD | Stomach | 2016-2017 |
| Mangram, A., MD | Small Bowel | 2016-2017 |
| Sucher, J., MD | Ventilation Management | 2016-2017 |
| Durrani, S., MD | Appendicitis & Diverticulitis | 2016-2017 |
| Singh, N., MD | Colon Cancer | 2016-2017 |
| Singh, N., MD | Anal Rectal | 2016-2017 |
| Rodriguez, F., MD | Thyroid | 2016-2017 |
| Bourne, C., MD | Breast | 2016-2017 |
| Bornstein, A., MD | Adrenal | 2016-2017 |
| Rodriguez, F., MD | Parathyroid | 2016-2017 |
| Bornstein, A., MD | Melanoma Sarcoma and Sentinel Node | 2016-2017 |
| Erickson, C., MD | Vascular Pseudoaneurysm | 2016-2017 |
| Ali-Osman, F., MD | Thoracic Masses & Tumors, Mediastinal Masses | 2016-2017 |
| Mangram, A., MD | Shock ARDS & Coagulopathy | 2016-2017 |
| Hollingworth, A., MD | ABSITE Past Year | 2016-2017 |
| Mangram A | “Trauma” | 2015-2016 |
| Ali-Osman F | “Fluids & Electrolytes” | 2015-2016 |
| Hollingworth A | “Metabolic Response/Nutrition” | 2015-2016 |
| Piscatelli | “Ventilation Care” | 2015-2016 |
| Hollingworth A | “Gallbladder” | 2015-2016 |
| Hollingworth A | “Appendix” | 2015-2016 |
| Mangram A | “Esophagus” | 2015-2016 |
| Mangram A | “Colon” | 2015-2016 |
| Mangram A | “Small Bowel” | 2015-2016 |
| Bornstein A | “Breast” | 2015-2016 |
| Ali-Osman F | “Spleen” | 2015-2016 |
| Sucher J | “Critical Care” | 2015-2016 |
| Hashimoto L | “Liver” | 2015-2016 |
| Mangram A | “Parathyroid” | 2015-2016 |
| Singer J | “Thyroid” | 2015-2016 |
| Doxey J.B. | “Hernias” | 2015-2016 |
| Sucher J | “Wound Management” | 2015-2016 |
| Montanarella | “Anesthesia” | 2015-2016 |
| Mangram A | “Shock” | 2015-2016 |
| Bornstein A | “Melanoma, Sarcoma” | 2015-2016 |
| Maskin E | “Internal Medicine” | 2015-2016 |
| Mangram A, Hollingworth A | “Review Equations Study Points” | 2015-2016 |
| Mangram A, Hollingworth A, Ali-Osman F, Rassadi R, Sucher J, Piscatelli | “Oral Board Review” | 2015-2016 |

RESIDENCY CLINICAL CONFERENCE

| Faculty Name(s) | Scholarly Project Title | Completion Date |
|-----------------|-------------------------|-----------------|
| Hillman S | "Colon" | 2015-2016 |
| Bornstein A | "Thigh Sarcoma" | 2015-2016 |
| Hashimoto L | "Liver Adenoma" | 2015-2016 |
| Singh N | "Rectal Carcinoma " | 2015-2016 |
| Ali-Osman F | "The Surgical Rib" | 2015-2016 |

RESIDENCY GRAND ROUNDS

| Faculty Name(s) | Scholarly Project Title | Completion Date |
|---|---|-----------------|
| Brink , J, MD, FACS | Management of Peripheral Arterial Disease | Jun 2017 |
| Amos, J, MD | The Masters of Disasters | May 2017 |
| Willem Wisselink, MD FACS; Enrico Benedetti, MD FACS | Current Role of Robotics in Vascular Surgery & Robotic Surgery Training during Residency: A Need or a Luxury? | Mar 2017 |
| Ramalingam, M, MD | Bariatric Surgery and Complications | Feb 2017 |
| Ortega, G., MD, MPH Prokuski, L, MD | Pelvic Fractures: Management Tips on the Night of Injury | Jan 2017 |
| Mangram, A, MD, FACS | "Surgical Process Improvement & Quality Improvement: Are We Really Closing the Loop | Oct 2016 |
| Dzandu, J, PhD | Introduction to HonorHealth John C. Lincoln Medical Center Trauma Research Program: Everything you wanted to know but were afraid to ask | Sept 2016 |
| Hall S | "One Size Does Not Fit All: Sedation Issues in the Trauma Patient " | 2015-2016 |
| Mangram A, Dzandu J | "Geriatric Trauma – Ground Level Falls Why People Fall and Die Results from 4 Level 1 Trauma Centers" | 2015-2016 |
| Shirah G | "Innovations in Wound Care" | 2015-2016 |
| Mangram A | " 'Major Culture Change' G60 Hip Fractures from a Trauma Surgeons Perspective: Past, "Present and Future" | 2015-2016 |
| Bornstein A | "Updates in Surgical Oncology" | 2015-2016 |
| Sucher J | "A Brief History of Infectious Disease in War" | 2015-2016 |
| Durrani S | "Pheochromocytoma " | 2015-2016 |
| Bornstein A | "Persistent Bio Leak After Hepatic Resection for Metastatic Rectal Cancer" Monthly Grand General Surgery M & M Conference | 2015-2016 |
| Doxey J.B. | "Surgical Site Infection Post Hernia Repair with Mesh" Monthly Grand General Surgery M & M Conference | 2015-2016 |
| Durrani S | "Transfacial Placement of Mesh" Monthly Grand General Surgery M & M Conference | 2015-2016 |
| Low R | "Colostomy, Anastomotic Leak" Monthly Grand General Surgery M & M Conference | 2015-2016 |
| Hillman S | "AAA, Ischemic Colitis" Monthly Grand General Surgery M & M Conference | 2015-2016 |
| Hashimoto L | "Colostomy Take Down, Enterocutaneous Fistula" Monthly Grand General Surgery M & M Conference | 2015-2016 |
| Rassadi R | "Laparoscopic Total Extra Peritoneal Inguinal Hernia Repair with Post-op Hematoma and Shock" Monthly Grand General Surgery M & M Conference | 2015-2016 |
| McNeal M | "Unanticipated Pneumothorax" Monthly Grand General Surgery M & M Conference | 2015-2016 |
| Singh, N | "Crohn's Disease with Toxic Megacolon" Monthly Grand General Surgery M & M Conference | 2015-2016 |
| Ali-Osman F | "Necrotizing Pancreatitis Diagnosed as Perforated Viscus" Monthly Grand General Surgery M & M Conference | 2015-2016 |

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| Hashimoto L | "Hepatocellular Carcinoma Diagnosed Lipiodol" Monthly Grand General Surgery M & M Conference | 2015-2016 |
| Doxey, J.B. | "Colocutaneous Fistula" Monthly Grand General Surgery M & M Conference | 2015-2016 |

RESIDENCY JOURNAL CLUB

| Faculty Name(s) | Scholarly Project Title | Completion Date |
|-----------------|---|-----------------|
| Mangram A | "Delayed Hemorrhagic Complications in the non-operative management of blunt splenic trauma: Early screening leads to a decrease in failure rate" | 2015-2016 |
| Ali-Osman F | "Long-Term Patient Outcomes after Surgical Stabilization of Rib Fractures" | 2015-2016 |
| Mangram A | "Complications of Harmann Takedown in a Decade of Preferred Primary Anastomosis" | 2015-2016 |
| Mangram A | "Antiplatelet and Anticoagulation Medications and the Surgical Patient" | 2015-2016 |
| Mangram A | "Development and Validation of a Risk-Stratification Score for Surgical Site Occurrence and Surgical Site Infection after Open Ventral Hernia Repair" | 2015-2016 |
| Mangram A | "Do more with less: a surgery directed institutional model for resident central line training" | 2015-2016 |
| Mangram A | "Daily Sedation Interruption versus Targeted light Sedation Strategies in ICU Patients." | 2015-2016 |
| Mangram A | "Effect of Procalcitonin-Based Guidelines vs Standard Guidelines on Antibiotic Use in Lower Respiratory Tract Infections" | 2015-2016 |
| Mangram A | "Treatment of Venous Thromboembolism" | 2015-2016 |
| Mangram A | "A Framework for Professionalism in Surgery: What is Important to Medical Students" | 2015-2016 |
| Mangram A | "Management of colonic injuries in the setting of damage-control Laparotomy: One shot to get it right" | 2015-2016 |
| Mangram A | "Efficacy and Safety of a 4-Factor Prothrombin Complex Concentrate in Patients on Vitamin K Antagonists Presenting with Major Bleeding: A Randomized, Plasma-Controlled, Phase IIIb Study" | 2015-2016 |
| Mangram A | "Temporal Trends of post-injury multiple-organ failure: Still resource intensive, morbid, and lethal" | 2015-2016 |
| Mangram A | "Incremental Cost of Complications in Colectomy: A warranty Guided Approach to Surgical Quality improvement" | 2015-2016 |
| Mangram A | "Trauma Recidivists: Surprisingly better outcomes than initially injured trauma patients" | 2015-2016 |
| Mangram A | "Can ultrasound common bile duct diameter predict common bile duct stones in the setting of acute cholecystitis?" | 2015-2016 |
| Mangram A | "Use of Recombinant Human Erythropoietin (rHuEPO) in Critically Ill Patients" | 2015-2016 |
| Mangram A | "Management of the Severely Anemic Patient Who Refuses Transfusion: Lessons Learned during the Care of a Jehovah's Witness" | 2015-2016 |
| Mangram A | "Inter-hospital Transfer of Blunt Multiply Injured Patients to a Level 1 Trauma Center Does not Adversely Affect Outcome" | 2015-2016 |
| Mangram A | "Outcome of Pancreaticoduodenectomy for Pancreatic Malignancy in Octogenarians: An American College of Surgeons National Surgical Quality Improvement Program Analysis" | 2015-2016 |
| Mangram A | "Trauma and Emergency Care under the Affordable Care Act" | 2015-2016 |
| Mangram A | "Management and outcome of patients with blunt splenic injury and preexisting liver cirrhosis " | 2015-2016 |
| Mangram A | "Readmission after delayed diagnosis of surgical site infection: a focus on prevention using the American College of Surgeons National Surgical Quality Improvement Program" | 2015-2016 |
| Mangram A | "Timing and type of surgical treatment of Clostridium difficile-associated disease: A practice management guideline from the Eastern Association for the Surgery of Trauma" | 2015-2016 |
| Oguntodu, O | Discuss & Compare co-presentation with resident Ryan McPherson, DO: "Inguinal Hernia Repair with Parietex ProGrip Mesh Causes Minimal Discomfort and Allows Early Return to Normal Activities Preperitoneal Surgery Using a Self-Adhesive Mesh for Inguinal Hernia Repair". January 19, 2016. | 2015-2016 |

Scholarly Activity Projects in Development

| Project/Protocol | Residents (PGY) | Mentor(s) | Project Status* |
|---|----------------------------|-----------|-----------------|
| Cecal Bascal or Cecal Volvulus: Does Preoperative Imaging Differentiate Between the Two and Does it | Ann Wells Holloway, DO (4) | Rassadi | 5 |
| Suspected & Unsuspected Serious Complications Following Traumatic Massive Pelvic Bleeding | Ann Wells Holloway, DO (4) | Mangram | 5 |
| Abdominal Intercostal Hernia | Byron Holloway, DO (4) | Ali-Osman | 5 |
| Massively Calcified Glioma | Byron Holloway, DO (4) | Zach | 5 |
| Metal vs Hemalock Clips | Byron Holloway, DO (4) | Rassadi | 1, 4 |
| Synchronous Gyst Tumor | Byron Holloway, DO (4) | Ahmad | 3 |
| Novel Use of Acetyl Cysteine for Traumatic Brain Injury | Ryan McPherson (3) | Mangram | 3 |
| Use of Phenobarbital for Alcohol Withdrawl | Ali Abidali (2) | Mangram | 1 |
| Wound Infection | Whitney Wilson, DO (2) | Dzandu | 4 |
| Phenobarbital Therapy in ETOH Withdrawal in Trauma Patients | Hayley Springs, DO (1) | Mangram | 1 |

1=Project Identified, 2=Literature review, 3=Proposal development, 4=Data collection and analysis, 5=Presentation/publication

APPENDIX A – Descriptions of HonorHealth Library Services Resources

A. Evidence-based medicine

1. The Cochrane Library is a collection of databases that contain high-quality, independent evidence to inform healthcare decision-making. It includes Cochrane Database of Systematic Reviews, Cochrane Central Register of Controlled Trials (CENTRAL), Cochrane Methodology Register (CMR), Database of Abstracts of Reviews of Effects (DARE), Health Technology Assessment Database (HTA), and NHS Economic Evaluation Database (NHSEED).
2. Essential Evidence Plus is a powerful, comprehensive clinical decision support system that integrates information on 9,000 diagnoses into healthcare professionals' clinical workflows. This clinical tool, created by an international team of renowned medical experts, was developed for physicians, nurses, and other healthcare professionals on the front line of patient care. EE+ features over 13,000 topics, guidelines, abstracts, tools, images, and summaries covering the most common conditions, diseases, and procedures clinicians come in contact with every day. Every recommendation carries a strength-of-evidence rating that accurately grades each recommendation's merit on the basis of all of the evidence available in the relevant literature
3. MedCalc 3000 is a collection of over 520 calculators, clinical criteria sets and decision trees that are indispensable to anyone practicing, teaching or studying evidence-based medicine. With every search you perform, STAT!Ref automatically presents links to relevant tools within MedCalc 3000. The complete contents of MedCalc 3000 include: Clinical Criteria Set, Decision Trees, Medical Equations, Unit and Dose Converters, Calculations and Equations by Specialty.
4. UpToDate is an ACCME-accredited evidence-based clinical decision support resource provided for healthcare practitioners to help them make the right decisions at the point of care.
5. FirstConsult (via ClinicalKey) is an authoritative, evidence-based and continuously updated clinical information resource for healthcare professionals. Designed for use at the point-of-care, it provides instant, user-friendly access to the latest information on evaluation, diagnosis, clinical management, prognosis, and prevention. Sections include: Medical Topics comprise clinically compiled information on patient evaluation, diagnosis, treatment, tests, prevention, and much more; Differential Diagnoses present an evaluation of a patient's complaint with interactive access to potential diagnoses by age and prevalence;. Procedures provide clear systematic guidance, including videos and medical animations, of procedures to the practice of medicine

B. Journal literature databases

1. The MEDLINE database is the premier biomedical database in the United States. It contains over 23 million references to more than 5,600 journals in life sciences with a concentration on biomedicine generally dating back to about 1949, with some older material. The subject scope of MEDLINE is biomedicine and health, broadly defined to encompass those areas of the life sciences, behavioral sciences, chemical sciences, and bioengineering needed by health professionals and others engaged in basic research and clinical care, public health, health policy development, or related educational

activities. Access is provided via 3 different search platforms: Ovid, EBSCO, and National Library of Medicine (PubMed). All HonorHealth journal content is accessible through link resolvers in all 3 search platforms, making it easy for researchers to access full-text articles in real-time.

2. CINAHL (Cumulative Index to Nursing and Allied Health Literature) provides indexing for more than 3,000 journals from the fields of nursing and allied health. The database contains more than 2.6 million records dating back to 1981. Offering complete coverage of English-language nursing journals and publications from the National League for Nursing and the American Nurses' Association, CINAHL covers nursing, biomedicine, health sciences librarianship, alternative/complementary medicine, consumer health and 17 allied health disciplines.
3. Health Business Elite database covers the journal literature concerning the business of health care. It provides full-text coverage of more than 130 well-known administrative journals such as H&HN: Hospitals & Health Networks, Health Management Technology, Modern Healthcare, and many others. Critical for hospital administrators and managers, this subset of Health Business™ Elite includes publications covering topics such as staffing, health care regulation, health care facilities management, marketing, finance and more.

C. Research/Scholarly Activity and Faculty resources

1. Research instruments (scientific scales, tests & measurements) from a variety of indexes and sources, such as the American Psychological Association, the National Library of Medicine and ETS.
2. Theses & dissertations published by colleges and universities throughout the world (via interlibrary-loan), found in indexes such as ERIC, Networked Digital Library of Theses & Dissertations, OpenTheses.org, Registry of Open Access Repositories (ROAR), and OCLC WorldCat
3. Arizona Health Matters website (state and local public health data)
4. National Guideline Clearinghouse Health Care Quality Tools and National Quality Measures (from the U.S. Agency for Healthcare Research and Quality)
5. TOXNET, a National Library of Medicine database on toxicology, hazardous chemicals, environmental health and toxic releases
6. GreenFILE database of published literature concerning environmental issues

D. Faculty Resources

1. ProceduresConsult (via ClinicalKey) provides over 300 educational videos on procedures in Emergency, Internal Medicine, Anesthesiology, General Surgery, Cardiology and other specialties.
2. Teacher Reference Center, an index of 280 peer-reviewed journals for teachers, covering topics like assessment, best practices, continuing education, and curriculum development

E. Textbooks (electronic & print)

1. ClinicalKey contains over 1100 medical and nursing e-textbooks and manuals.
2. STATRef includes over 140 medical and nursing e-textbooks.
3. Ovid Books provides a small collection of LWW medical & nursing reference e-books
4. HonorHealth Library Services provides immediate, direct access to over 1,900 clinical texts, 240 leadership & management books, and over 1,800 consumer health & wellness books. These collections cover a wide range of specialty and subject areas (see below). Library Services also provides rapid interlibrary loan (ILL) services for any texts we do not own in our collection. Typical response time on ILL requests is 2 business days.
 - 4.a. Primary care/Family Medicine/Internal Medicine
 - 4.b. Obstetrics & Gynecology
 - 4.c. Surgery & Perioperative Care
 - 4.d. Oncology
 - 4.e. Subspecialties including Gastroenterology, Neurology, Orthopedics, Heart & Vascular, Dermatology, Psychiatry, Pediatrics, and Geriatrics
 - 4.f. Health business, management & leadership
 - 4.g. Business leadership & management
 - 4.h. Professional development & certification (“test prep”) materials
 - 4.i. Various consumer health & wellness and chronic disease management topics, in alignment with SLHN priorities

F. eJournals, Full-text

1. JAMA and JAMA Archives, Lancet, NEJM available electronically
2. Thousands of journal titles available through Medline with Full Text, CINAHL Complete, ClinicalKey and other database collections (title lists available upon request).

G. Drug information

1. Micromedex provides information and complete monographs on thousands of drugs. It includes toxicity information, therapeutic doses, pill identification, and dosing calculators. The complete drug monographs in this resource are often considered to be the “gold standard”.
2. Lexi-Comp, available through UpToDate, is another drug information product, with features including aural pronunciation of the drugs’ names and chemotherapy regimes.
3. FDA Electronic Orange Book (consumer information on generic drugs)

H. Herbs & Supplements

1. Alternative Medicine, available through Micromedex suite, is easy to access and search. Designed for healthcare professionals, Alternative Medicine is a reliable, comprehensive source of referenced, scientifically sound information about complementary and alternative medicine (CAM) therapies and practices.
2. HerbMed (from the Alternative Medicine Foundation)
3. National Center for Complementary & Alternative Medicine (NCCAM) resources (including clinical practice guidelines and literature reviews for health care professionals)
4. Dietary Supplement Label Database (from the National Library of Medicine)

I. Patient Education/Consumer Health/Literacy resources

1. MEDLINEplus (Consumer health info from the National Library of Medicine)
2. CareNotes patient education resources (via Micromedex suite)
3. Basics & Beyond series (via UpToDate)
4. ExitCare (via ClinicalKey)
5. A wide variety of health literacy toolkits and resources, including resources for Ask Me 3 campaign and Teach Back methodology.

TEXTBOOKS (Electronic; Print are italicized)

Ashcraft's pediatric surgery / 2014

Atlas of advanced operative surgery / 2012

Atlas of general surgical techniques / 2010

Atlas of minimally invasive surgery / 2009

Atlas of minimally invasive thoracic surgery (VATS) / 2011

Atlas of trauma/emergency surgical techniques / 2014
Basic, advanced, and robotic laparoscopic surgery / 2010
Clinical review of oral and maxillofacial surgery / 2008
Colour atlas of ophthalmic plastic surgery / 2008
Core topics in general and emergency surgery / 2014
Critical care medicine: the essentials / 2010
Current surgical therapy : expert consult / 2014
Current therapy in oral and maxillofacial surgery / 2012
Current therapy of trauma and surgical critical care / 2016
Essential guide to primary care procedures / 2009
Essential surgery : problems, diagnosis, and management / 2014
Essential Surgical Procedures.
Essentials of surgery / 2006
Greenfield's surgery : scientific principles and practice / 2011
Image-guided musculoskeletal intervention / 2008
Jatin Shah's head and neck surgery and oncology / 2012
Kirk's general surgical operations. / 2013
Medical management of the surgical patient / 2008
Medicine & surgery : an integrated textbook / 2007
Minimally invasive percutaneous spinal techniques / 2011
The Mont Reid surgical handbook / 2008
Netter's surgical anatomy and approaches / 2014
Oculoplastic and reconstructive surgery / 2008
Pediatric surgery. / 2012
Pfenninger & Fowler's procedures for primary care / 2011
Plastic surgery secrets / 2010
Principles and practice of surgery / 2012
Rush University Medical Center review of surgery. / 2011
Sabiston textbook of surgery : the biological basis of modern surgical practice / 2017
Surgery : a competency-based companion / 2009
Surgery of the skin : procedural dermatology / 2015
The trauma manual : trauma and acute care surgery / 2013
Video atlas of advanced minimally invasive surgery / 2013
Wounds and lacerations : emergency care and closure / 2012

JOURNALS (Electronic; Print are italicized)

American journal of surgery
American surgeon
Annals of surgery
Archives of surgery
Asian journal of surgery
Atlas of the oral and maxillofacial surgery clinics of North America
BJS: the british journal of surgery
British journal of oral & maxillofacial surgery

Bulletin of the American College of Surgeons
Gynecology and minimally invasive therapy
International journal of oral and maxillofacial surgery
International journal of surgery
International journal of surgery case reports
Journal of bone and joint surgery : American volume
Journal of bone and joint surgery : British volume
Journal of cranio-maxillo-facial surgery
Journal of minimally invasive gynecology
Journal of oral and maxillofacial surgery
Journal of pediatric surgery
Journal of the American College of Surgeons
Journal of thoracic and cardiovascular surgery.
Medsurg nursing
Operative techniques in sports medicine
Oral and maxillofacial surgery clinics of North America
Seminars in pediatric surgery
Southern medical journal
The surgeon : journal of the Royal Colleges of Surgeons
Surgery
Surgical clinics of North America
Techniques in vascular and interventional radiology
World journal of surgery

CLINICALKEY INSTRUCTIONAL PROCEDURE VIDEOS

Abdominoperineal Resection with Total Colectomy and End-Ileostomy (General Surgery)
Anal Fistulotomy (General Surgery)
Arterial Line Placement (General Surgery)
Axillary Lymph Node Dissection (General Surgery)
Axillary Sentinel Lymph Node Biopsy (General Surgery)
Central Venous Line Placement (General Surgery)
Chest Tube Placement (General Surgery)
Cricothyrotomy (General Surgery)
Endotracheal Placement (General Surgery)
Excisional Biopsy (General Surgery)
Fine Needle Breast Aspiration (General Surgery)
Incision and Drainage for Soft Tissue Infections (General Surgery)
Laparoscopic Antireflux Procedure (Nissen Procedure) (General Surgery)
Laparoscopic Cholecystectomy Without Cholangiography (General Surgery)
Laparoscopic Liver Excisional Biopsy/Wedge (General Surgery)
Laparoscopic Rectosigmoid Colon Resection/Low Anterior Resection (General Surgery)
Laparoscopic Splenectomy (General Surgery)
Laparoscopic Ventral Hernia Repair (General Surgery)
Open Adhesiolysis (General Surgery)
Open Appendectomy (General Surgery)
Open Exploratory Laparotomy (General Surgery)
Open Repair of Inguinal Hernia (General Surgery)

Open Small Bowel Resection (General Surgery)
Open Ventral Hernia Repair (General Surgery)
Parathyroidectomy (General Surgery)
Partial Thyroidectomy (General Surgery)
Pediatric Surgery Inguinal Hernia Repair (General Surgery)
Percutaneous Endoscopic Gastrostomy (General Surgery)
Pilonidal Cystectomy (General Surgery)
Primary Arteriovenous Fistula Formation for Hemodialysis Access (General Surgery)
Pulmonary Artery Catheterization (General Surgery)
Punch Biopsy (General Surgery)
Revision Arteriovenous Access (General Surgery)
Right Hemicolectomy (General Surgery)
Simple Mastectomy (General Surgery)
Splenectomy for Disease — Open (General Surgery)
Stapled Closure of Loop Ileostomy (General Surgery)
Subcutaneous Lateral Internal Sphincterotomy (General Surgery)
Subtotal Gastrectomy (General Surgery)
Total Gastrectomy (General Surgery)
Total Skin Sparing Mastectomy or Nipple Sparing Mastectomy (General Surgery)
Totally Extraperitoneal Laparoscopic Repair of Inguinal Hernia (General Surgery)
Transabdominal Preperitoneal Laparoscopic Repair of Inguinal Hernia (General Surgery)
Ultrasound-Guided Breast Biopsy (General Surgery)
Ultrasound-Guided Partial Mastectomy (General Surgery)
Umbilical Hernia Repair in Children (General Surgery)
Varicose Vein Excision (General Surgery)

APPENDIX B – Descriptions of Midwestern University Library Services Resources

A. Anatomy

1. Anatomy.TV is an interactive regional anatomy resource containing images that can be viewed layer by layer and can be rotated. Several specialty modules are included, such as: sports injuries, hand therapy, and dentistry. Acland's Video Atlas of Human Anatomy provides videos of dissected fresh human specimens.

B. Drug information

1. Facts & Comparisons is the full-text electronic version of Drug Facts & Comparisons. It contains information on drug and herbal interactions, a chemotherapy manual, directories of manufacturers, and pill identification with many color images. MICROMEDEX provides information and complete monographs on thousands of drugs. It includes toxicity information, therapeutic doses, pill identification, and dosing calculators. The complete drug monographs in this resource are often considered to be the "gold standard". Lexi-Comp is another drug information product, with features including aural pronunciation of the drugs' names and chemotherapy regimes.

C. eBooks, Full-text

1. The full-text of hundreds of respected medical, dental, and nursing textbooks can be found in STAT!Ref, NetLibrary, R2 eBook Library, MD Consult, and the Access suite of products (Anesthesiology, Emergency Medicine, Medicine, Pediatrics, Pharmacy, and Surgery). STAT!Ref alone includes over 120 textbooks. There is very little overlap among the eBook collections. Thousands more ebooks are available via the eBooks link on the library's home page.

D. eJournals, Full-text

1. Thousands of full-text eJournals and their articles are available through the eJournals link on the library's home page. Journal issues can be browsed or articles can be identified in the journal literature databases, which are then linked back to the full-text articles via the "Get it @ MWU" button

E. Evidence-based medicine

1. The Cochrane Library contains the full-text of the Cochrane Database of Systematic Reviews. It includes reliable evidence from Cochrane and other systematic reviews, clinical trials, and more, bringing you the combined results of the world's best medical research studies. It is recognized as the gold standard in evidence-based health care. Essential Evidence Plus uses practicing professionals to identify and summarize the most valid and clinically-applicable new evidence from the best research findings gleaned from a continuous survey of the top worldwide medical journals. POEMs (Patient-Oriented Evidence that Matters) have to meet three criteria: they address a question that clinicians will face, they measure outcomes that clinicians and their patients care about (symptoms, morbidity, quality of life, and mortality), and they have the potential to change the way clinicians practice. UpToDate is an evidence-based knowledge system authored by physicians to help clinicians make the right decisions at the point of care.

F. Herbals & Supplements

1. Natural Standard allows users to search for natural products, including foods, herbs, supplements, genomics, and proteomics. The monographs include information about interactions and comparative effectiveness. Other topics include health and wellness issues and medical conditions. This resource provides high quality, evidence-based information about complementary and alternative therapies. Natural Medicines contains over 1,000 evidence-based monographs providing in depth information including: common, colloquial, & brand names, scientific names, product uses, safety, effectiveness, description of known constituents, pharmacological actions, adverse reactions, possible interactions, any influence on nutrient levels and depletion in the body after use of the substance(s), and dosage and administration.

G. Integrated resources

1. AccessMedicine, and the other resources in this suite of products, provide access to access to well-known medical titles, thousands of images and illustrations, interactive self-assessment, case files, time-saving diagnostic and point-of-care tools, etc. MD Consult helps physicians answer clinical questions and stay abreast of recent developments by integrating 50 respected medical reference books (full-text), over 100 medical journals and clinics (full-text), MEDLINE, comprehensive information on 30,000 drugs, more than 1000 clinical practice guidelines, over 3,500 customizable patient education handouts, many in Spanish, and online CME. Also included are highlights on recent drug approvals, a weekly review of new developments in medicine, and the key contents of several major journals are presented each week.

H. Journal literature databases – general

1. The MEDLINE database is the premier biomedical database in the United States. Access is provided via 3 different search platforms: Ovid, EBSCO, and PubMed. It contains bibliographic citations and author abstracts from more than 5,600 biomedical journals published around the world. The database contains well over 22 million citations dating back to the 1940's. Although coverage is worldwide, most records are derived from English-language sources or have English abstracts. Each of these providers links to some full-text articles. The "Get it @ MWU" button provides additional full-text article access. Health Business Elite covers the journal literature concerning the business of health care. ScienceDirect and Web of Knowledge cover a wider range of the sciences and have many useful, special features.

I. Journal literature databases – subject specific

1. Midwestern provides access to many journal literature databases focusing on specific subject areas within the health sciences. CINAHL (Cumulative Index to Nursing and Allied Health Literature) includes nursing, physician assistants, occupational & physical therapy, among 14 other allied health professions. Dentistry and Oral Sciences Source covers the dental literature. PsycINFO and the other databases, from the American Psychological Association, focus on the psychology literature dating as far back as the 1800s. Sport Discus covers sports and sports medicine topics. VisionCite and Visionet cover topics in optometry and ophthalmology.

J. Drug Information Center

1. Midwestern University has opened a Drug Information Center with access being offered free of charge, exclusively to our preceptors. The Center is staffed during business hours by pharmacy students and residents with all questions being reviewed by a pharmacist. The Center has access to books, databases and journals. All information provided by the Center is based on published literature. The goal of the Drug information Center is to assist in the provision of quality patient care by providing evidence-based answers to clinical questions. Preceptors may use the Center to assist with any question that comes up in

practice. Some recent examples are: “What is the dose of ketorolac for a patient undergoing hemodialysis?” or “Can sertraline cause a hot-flash type of reaction?”

K. Matthews Bookstore

1. Faculty & preceptors receive a 10% discount on purchases made at the University’s bookstore. Matthews accepts orders via phone and will ship purchases to office or home free of charge.