

# SCHOLARLY ACTIVITY IN THE HONORHEALTH THOMPSON PEAK DERMATOLOGY RESIDENCY PROGRAM

## 2018-2019 EXECUTIVE SUMMARY

### Overview

As part of improving their patient care, the Dermatology Scholarly Activity Program provides residents with a strong foundation in research, ensuring 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. Residents learn the basic principles of research including how research is conducted, evaluated, explained to patients, and applied to their patients' care. The Scholarly Activity Program (SAP) is designed to fulfil the residency program's Practice-Based Learning goals. Scholarly activities of residents and faculty are documented and assessed regularly as part of the Dermatology Program evaluation and are also assessed through the annual Faculty and Resident Survey.

This executive summary is organized into three parts. In Part I, scholarly activity processes and structures are identified and described. Part II provides details regarding resources in place to support scholarly research activities. Part III includes a list of recent faculty and resident activities.

## 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 (Grand Rounds, M&M, etc). 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 & Education

Residents will be required to participate in community events focused on delivering medical care to under-served or impoverished areas of the population. Tracking and recording of these efforts will be required.

Community service activities for residents:

- Public health presentations (skin cancer awareness and prevention) to businesses, living facilities and schools throughout the valley
- 1-hour credit for each hour of doing skin screenings (senior care organizations, retirement communities, local employers, health fairs, races and other venues)
- Volunteer time for non-profit health agencies (Arizona Skin Cancer Foundation, Cancer Society, etc) – 1-hour credit for each hour worked.
- Volunteer work with Church and/or Youth Groups – 1-hour credit for each hour worked.
- Other volunteer work for credit must be approved in advance by the Program Director.

## Faculty Research and Scholarly Activity

Dermatology faculty are required to demonstrate involvement in resident scholarly activity by providing guidance and support to residents and participating in clinical discussions and conferences. Faculty are responsible for committing and scheduling a portion of their time to supporting the scholarly activities of residents. During such time, faculty may provide direct consultation and advisement on scholarly topics, the research process, or provide ongoing guidance throughout a project's entire timeline. Faculty also select peer-reviewed and clinically significant research articles for residents to review, appraise and present during journal club activities.

Faculty are also responsible for the development and implementation of their own scholarly activities in order to expand their own knowledge base and contribute to the body of literature in their specialties. 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.

Additionally, to foster faculty interest and engagement in research, HonorHealth has partnered with the University of Arizona-Phoenix, School of Medicine to design faculty development courses, including a Research Associate Faculty Learning Community. This community seeks to establish a mentoring program, offer a broader definition of scholarship to include educational, clinical and service & outreach

scholarship, provide didactics on study design principles, develop a peer- review/peer-mentoring group, and lend biostatistical support to faculty and residents.

Research faculty, Quality and Enhancement Services faculty, and faculty development initiatives will guide the development of skills needed to enable Core Faculty and non-Core Faculty to mentor residents in scholarly activity. Details of these activities can be found in Part III of this summary.

## Journal Club

Journal club is designed to expand skills in appraisal and assimilation of evidence from scientific studies. It is a monthly, resident-led, interactive session under the supervision of Core Faculty and faculty members with content expertise relevant to the topics chosen for presentation. Reading assignments and participation are mandatory. Journal club activities are intended to assist residents in critically analyzing their own care against the most up-to-date information on diagnosis and treatment effectiveness.

## Morbidity and Mortality Conference

On a quarterly basis, residents participate in interprofessional review of patient complications and discussion of action steps to prevent similar events in the future. Cases can include unexpected deaths, delay in care or diagnosis, procedural complication, avoidable medical events such as CAUTI or falls, or near miss events such as medication errors, lab events or errors, or failure to act. During each conference, the goals, guiding principles and privileged nature of the discussion and materials are introduced. Conferences are directed and supervised by a Board-Certified physician and focus is on education and potential patient care or system improvement. The discussion is summarized, and a list of action items or best practices may be developed.

## National and Local Conference Presentations

Residents are expected to present a scholarly research project at a local, regional and/or national meeting. Presentations may include a published work, poster and/or podium presentation representing a research project completed during Dermatology residency. Presentations will be prepared under supervision of residency faculty and/or physician researcher.

Resident scholarly projects are frequently submitted to the annual “Academic Excellence Day”, sponsored by the University of Arizona, College of Medicine Phoenix, which is designed for resident and fellow poster and oral presentations of case reports and research projects.

## Noon Conferences

Noon conferences are delivered by faculty and other clinical and non-clinical content experts. This series groups learning in both general medicine and in medical subspecialties to provide continuity of learning throughout the resident's training.

Noon conferences include a series of Resident Conferences, giving PGY2 and PGY3 residents an opportunity to present clinical topics.

## Quality Projects & Teams

All residents are required to participate in a quality team and/or quality improvement project within the base hospital institution. The quality projects focus on quality measures, patient safety, efficient workflows, or risk management. Residents are trained yearly regarding the organization's policies and processes for reporting medical errors and near misses.

## ResQIPS Curriculum and Workshop Series

Residents must be well-versed in inquiry: research, quality improvement, leveraging human and electronic resources, and applying research findings to improve patient care. To support these efforts HonorHealth has developed an innovative framework and curriculum called ResQIPS (Research, Quality Improvement and Patient Safety) linking education and support on QI/PS activities to scholarship with the intent of increasing scholarly projects and improving outcomes. ResQIPS is designed to support the advancement of research, quality improvement and scholarship for the network's medical residency programs and, more broadly, across multiple disciplines in the network. The ResQIPS learning objectives are as follows:

- Design a significant clinical question that aligns with the ResQIPS Framework
- Describe the steps involved in conducting investigator-initiated human subject research & prepare for IRB application submission
- Use Quality data and tools to support practice or improvement initiatives
- Describe methodology and design considerations for QI and Research projects
- Identify tools, resources and mentors needed to support research activities
- Develop a scholarly project
- Collect and analyze data
- Disseminate findings through local, regional or national presentations and/or through peer-reviewed journal article publication

The curriculum is offered as a series of mandatory workshops with individual mentoring support offered to residents and other learners between workshops. Resident, Faculty and IPE projects are showcased to the organization in poster and presentation sessions annually.

## Scholarly Research Project

All residents receive didactic training from research faculty on research methodology, study design, biostatistics, appraisal and application of evidence-based medicine, ethics in the context of research, developing research questions, and disseminating and presenting results of research projects. Residents also attend HonorHealth Research, Quality Improvement and Patient Safety workshops (ResQIPS) as outlined in the section above.

**Project Preparation Training** includes:

- CITI human subject protections training;
- discussion of 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;
- performance a literature search and coordination with HonorHealth librarians on 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.
- Practice in identification of independent and dependent variables and outcomes of impact to clinical practice
- Review of other research-related concepts, including research designs, scientific methods, data collection & statistical analysis, and dissemination of new information through reports and publications

**Scholarly Research Project:**

Residents are required to be actively working on a research project throughout residency with the goal to complete a scholarly research project annually.

In-house active research projects include:

- Tissue bank collection for melanoma, squamous cell carcinoma and basal cell carcinoma tumors.
- Genomic studies in patients at high risk for melanoma and other cancers.
- Survey studies.

More research projects and funding are being developed as the program continues to grow.

**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 ResQIPS/HHRI research team. Progress is tracked by quarterly. 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.

## Residents As Teachers

Residents have multiple opportunities to practice and develop their teaching skills. In addition to the teaching demands required from daily interaction with patients, families, and other health care professionals, residents participate in leading interactive didactic sessions such as noon conference or Grand Rounds. Additionally, faculty model and mentor teaching skills on clinical rounds, in didactic sessions, through committee work, and in nearly all aspects of clinical practice for which they provide supervision. Residents have numerous opportunities to teach and counsel patients. These interactions are frequently supervised by faculty or senior residents, offering opportunities for feedback and improvement. As residents advance, they are expected to take on a greater teaching role, including teaching more junior residents and leading in interactive didactic sessions.

Multiple tools are utilized to assess and provide feedback for improvement on skills at educating patients, families, students and peers. Faculty provide daily, face-to-face feedback on resident teaching and counseling skills. Residents incorporate this real-time feedback into their daily practice. At the conclusion of each rotation, residents are evaluated by faculty in the six ACGME competencies, including issues relevant to their teaching performance. Residents review these evaluations at the end of each rotation. Medical students complete an evaluation form of residents involved in their instruction. Resident peers are periodically called upon to evaluate each other. Skills at teaching are included in this assessment. Finally, the faculty advisors and Program Director provides a semiannual Milestone review at which feedback from all these sources is provided. Residents utilize this feedback to improve upon their teaching skills.

# PART II - Resources for Scholarly Activity & Research

## Dermatology Residency Program Resources

The Dermatology Residency Program provides access to HonorHealth resources and dermatology-specific resources including the “Landmarks in Cutaneous Biology” series from the Journal of Investigative Dermatology. Residents are also required to attend the American Academy of Dermatology’s Basic Science course at the annual meeting at least once during residency.

*See Appendix B for additional information of how these resources are incorporated in didactic schedule*

## 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 at each location, 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 a large 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** 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.

## 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.

## PART III – INVENTORY OF SCHOLARLY ACTIVITIES

### Resident Activities

#### COMMUNITY SERVICE

<b>Trainee Name</b>	<b>PGY Year</b>	<b>Scholarly Project Title</b>	<b>Completion Date</b>
Heidi Mullen, DO	PGY1	Skin Cancer Screening, Donor AZ, Phoenix, AZ	6/11/19
Andrew Newman, DO	PGY2	Skin Cancer Screening, Donor AZ, Phoenix, AZ	6/11/19
Heidi Mullen, DO	PGY1	Skin Cancer Screening, Phoenix, AZ	5/18/19
Andrew Newman, DO	PGY2	Skin Cancer Screening, Virginia Piper Cancer Center, Scottsdale, AZ	5/18/19
Heidi Mullen, DO	PGY1	Skin Screening and Skin Cancer Awareness, Phoenix, AZ	5/4/19
Andrew Newman, DO	PGY2	Skin Cancer Screening, Anthem Business Fair, Anthem, AZ	3/31/19
Heidi Mullen, DO	PGY1	Skin Screening and Sunscreen Promotion, Phoenix, AZ	3/16/19
Heidi Mullen, DO	PGY1	Skin Cancer Screening, Discount Tire, Phoenix, AZ	3/8/19
Heidi Mullen, DO	PGY1	Skin Cancer Screening and Skin Awareness, Phoenix, AZ	3/7/19
Andrew Newman, DO	PGY2	Skin Cancer Screening for MLB Umpires, Phoenix, AZ	1/23/19
Andrew Newman, DO	PGY2	Skin Cancer Screening, Health Fair, Phoenix, AZ	12/9/18
Heidi Mullen, DO	PGY1	Skin Cancer Screening, American Express Health Fair, Phoenix, AZ	9/18/18
Heidi Mullen, DO	PGY1	Skin Cancer Screening, Enclave Health Fair, Phoenix, AZ	9/13/18

**PUBLISHED JOURNAL ARTICLE/ABSTRACT/ SUBMITTED MANUSCRIPT**

<b>Trainee Name</b>	<b>PGY Year</b>	<b>Scholarly Project Title</b>	<b>Completion Date</b>
Dustin Mullens, DO Andrew Newman, DO	PGY3 PGY2	Newman AJ, Mullens D, Lin CC, Barr J. "Subacute Cutaneous Lupus Erythematosus Observed with Ciprofloxacin" BMJ Case Rep. 2018 Dec 22;11(1).	12/22/18
Dustin Mullens, DO Andrew Newman, DO	PGY3 PGY2	Newman AJ, Mullens D, Pulford C, Lam T. "Cutaneous Pseudolymphoma Secondary to Gabapentin" BMJ Case Reports. 2018 Oct 21.	10/21/18
Dustin Mullens, DO Andrew Newman, DO	PGY3 PGY2	Newman AJ, Mullens D, Estrada S, Barr J. "Cutaneous Angioleiomyoma of the Auricle: A Painless Variant of a Painful Tumor" BMJ Case Reports. 2018 Sep 18.	9/18/18
Dustin Mullens, DO Andrew Newman, DO Mitchell Manway, DO	PGY3 PGY2 PGY2	Newman AJ, Mullens D, Manway M, Barr J. "Red, White, and Blues: Darier Disease and Mood Disorder" BMJ Case Rep. 2018 Aug 27.	8/27/18

**PATIENT EDUCATION BLOGPOSTS**

<b>Trainee Name</b>	<b>PGY Year</b>	<b>Scholarly Project Title</b>	<b>Completion Date</b>
Andrew Newman DO	PGY2	"Tips for Dry and Flaky Skin" HealthDove.com (2019, May 27)	5/27/19
Andrew Newman DO	PGY2	"Summer Sun Protection" Affderm Blog (2019, April 5)	4/5/19
Andrew Newman DO	PGY2	"Nailing Down Some Nail Knowledge" Affderm Blog (2019, February 7)	2/7/19
Andrew Newman DO	PGY2	"Winter Skin" Affderm Blog (2019, February 1)	2/1/19
Andrew Newman DO	PGY2	"Tips for Winter Skincare" Affderm Blog (2019, January 17)	1/17/19
Andrew Newman DO	PGY2	"Red, White, and Blues" Affderm Blog (2018, September 10)	9/10/18
Andrew Newman DO	PGY2	"The Truth About Beauty Sleep" Affderm Blog (2018, August 16)	8/16/18
Andrew Newman DO	PGY2	"Food Tips for Better Skin" Affderm Blog (2018, July 21)	7/21/18

**PRESENTATIONS/POSTERS/ABSTRACTS**

<b>Trainee Name</b>	<b>PGY Year</b>	<b>Title</b>	<b>Completion Date</b>
Dustin, Mullens, DO	PGY3	Poster abstract submission: "Use of amniotic tissue derived allografts to promote wound closure post-Mohs micrographic surgery." (2019, June 23).	6/23/19
Heidi Mullen, DO	PGY1	Newspaper article: "Vitamins and Foods Can Help Reduce Sun Damage" Arizona Republic (2019, June 19)	6/19/19
Heidi Mullen, DO	PGY1	News Broadcast Presentation: "Sunscreen Tips" ABC 15, Phoenix, AZ (2019, May 26).	5/26/19
Heidi Mullen, DO	PGY1	Television Segment: "Skin Cancer Awareness Month" Your Life Arizona, Phoenix, AZ (2019, May 20)	5/20/19
Heidi Mullen, DO	PGY1	Lecture Presentation: "Common Skin Lesions" National Laser Institute Lecture Series, Scottsdale, AZ (2019, May 3)	5/3/19
Dustin, Mullens, DO	PGY3	Poster presentation: "Unique Case of a HPV-associated Squamous Cell Carcinoma In-Situ in an Immunocompetent Patient with No Contributing Risk Factors", University of Arizona School of Medicine, Phoenix, AZ (2019, May 1)	5/1/19
Andrew Newman, DO	PGY2		
Andrew Newman, DO	PGY2	Presentation: "Diagnoses of African Tick-Borne Disease", AOCD Spring Conference – Orlando 2019, Orlando, FL (2019, April 11)	4/11/19
Andrew Newman, DO	PGY2	Multiple presentations, AOCD Spring Conference 2019, Orlando, FL (2019, April 10).	4/10/19
Andrew Newman, DO	PGY2	Presentation Lecture: "Erythroderma", Dermatology Grand Rounds, Scottsdale, AZ (2019, April 5)	4/5/19
Andrew Newman, DO	PGY2	High School Presentation, High School Medical Club Event, Thompson Peak HonorHealth, Scottsdale, AZ (2019, April 4).	4/4/19
Dustin, Mullens, DO	PGY3	Poster Presentation: "Dermatitis Artefacta, AOMA, Phoenix, AZ (2019, March 30)	3/20/19
Andrew Newman, DO	PGY2		
Andrew Newman, DO	PGY2	Multiple presentations, AAD Fall Conference 2019, Washington D.C. (2019, March 5).	3/5/19
Andrew Newman, DO	PGY2	Presentation: "Inpatient Dermatology" HonorHealth Grand Rounds, HonorHealth, Scottsdale, AZ (2019, February 25)	2/25/19
Andrew Newman, DO	PGY2	Presentation Lecture: "Noninvasive Body Contouring" The Laser Institute – Scottsdale, Scottsdale, AZ (2019, January 25)	1/25/19
Andrew Newman, DO	PGY2	News Broadcast Presentation: "Dry Skin" Channel 3 News – Phoenix, Phoenix, AZ (2019, January 19)	1/19/19
Andrew Newman, DO	PGY2	Presentation Lecture: "Erythroderma" ASAPA Fall 2018, Tucson, AZ (2018, October 12)	10/12/18

Dustin, Mullens, DO	PGY3	Poster abstract submission: "Use of amniotic tissue derived allografts to promote wound closure post-Mohs micrographic surgery." American Society for Dermatologic Surgery, Scottsdale, AZ (2018, October 12).	10/12/18
Heidi Mullen, DO	PGY1	Oral poster presentation: "Defining Indications for Massive Transfusion: Not as Simple as Learning Your ABC's" AAST, San Diego, CA (2018, September 26)	9/26/18
Dustin, Mullens, DO	PGY3	Presentation Submission: "Strong and Diffuse Nuclear Staining with P16 and Ki-67 in an Invasive Squamous Cell Carcinoma of the Palm of a Healthy 34-year-old Female" American Academy of Dermatology, Washington D.C. (2018, August 13)	8/13/18

### PROFESSIONAL ACTIVITIES/COMMITTEES

Trainee Name(s)	PGY	Scholarly Activity Title	Completion
Andrew Newman, DO	PGY2	Health Leadership Council, Scottsdale, AZ (2019)	2019

### PUBLISHED CHAPTER OR TEXTBOOK

Trainee Name(s)	PGY	Scholarly Activity Title	Completion
Heidi Mullen, DO	PGY1	Yiannias JA, Egnatios GL, Mullen HE. Contact Dermatitis. In: Bope ET, Kellerman RD, Rakel RE. Conn's Current Therapy 2020. 1st Ed. Philadelphia, PA: Saunders; Forthcoming 2019.	6/14/19
Heidi Mullen, DO	PGY1	Yiannias JA, Egnatios GL, Mullen HE. Contact Dermatitis. In: Bope ET, Kellerman RD, Rakel RE. Conn's Current Therapy 2019. 1st Ed. Philadelphia, PA: Saunders; Forthcoming 2018.	3/1/19

## Faculty Activities

### PRESENTATIONS/POSTERS/ABSTRACTS

Faculty Name(s)	Scholarly Project Title
Estrada, S.	A presentation of my most interesting teaching cases. Affiliated Dermatology Core Faculty and Non-Physician Provider's Meeting. (2019 January)
Estrada, S.	A presentation of 20 of my most interesting cases. Affiliated Dermatology Core Faculty and Non-Physician Provider's Meeting. (2018 July)
Estrada S., Barr J., Lin C., and Averitte, R.	Mentored PGY3 Dustin Mullens in poster submission and presentation: Mullens D, Estrada S, Barr J, Egnatios GL, Lin C, Averitte R. "A case of perforating granuloma annulare", University of Arizona Academic Excellence Day. May 2018; Phoenix, AZ. (2018, May 2)
Barr, J. and Averitte, R.	Mentored PGY3 Dustin Mullens in two poster submissions: Mullens D, Seaton K, Hull E, Barr J, Averitte R. "Use of amniotic tissue derived allografts to promote wound closure post-Mohs micrographic surgery." American Society for Dermatologic Surgery Annual Conference. 2018 AND Kenneth A. Suarez Research Day, Glendale, AZ. (2018, April 27)

Lin, C.	Mentored PGY3 Dustin Mullens in Grand Rounds Presentation: "Complex Inpatient Dermatology Cases" Grand Rounds, HonorHealth, Scottsdale AZ (2018, April 13)
Estrada S, Barr J, Egnatios GL, Lin C, and Averitte R.	Presentation: Mullens D, Estrada S, Barr J, Egnatios GL, Lin C, Averitte R. "A case of perforating granuloma annulare", American Osteopathic College of Dermatology Annual Meeting, West Palm Beach, FL. (2018 March)
Blumetti, B.	Presentation: "Hair Loss" Internal Medicine Residents and Fellows, HonorHealth, Scottsdale, AZ (2017-2018)
Estrada, S.	Presentation: "'What If?' A presentation of 30 of my most challenging cases." Affiliated Dermatology Core Faculty and non-provider meeting (2017, Dec)
Lin, C.	Presentation: "Malignant Melanomas (Melanoma Basics)" HonorHealth Thompson Peak Medical Center Internal Medicine Noon Conference (2017 Nov 21)
Lin, C.	Presentation: "Nonmelanoma Skin Cancers." HonorHealth Thompson Peak Medical Center Internal Medicine Core Lecture Series (2017, Nov 20)
Estrada, S.	Presentation: "An overview of melanoma: diagnosis and scoring." Chief Scientists Meeting, Castle Biosciences, Inc (2017 July and 2019 January)
Lin, C.	Mentoring and Presentation "Dermatology resident case presentations" HonorHealth Thompson Peak Medical Center Internal Medicine Grand Rounds (2017, Mar 10)
Lin, C	Presentation: "Benign Skin Lesions." HonorHealth Thompson Peak Medical Center Internal Medicine Noon Conference (2017, Feb.)
Lin, C	Presentation: "Approach to Blistering Dermatoses" HonorHealth Thompson Peak Medical Center Internal Medicine Noon Conference (2016 Nov)
Lin, C	Presentation: "Dermatologic Emergencies." HonorHealth Thompson Peak Medical Center Internal Medicine Core Lecture Series (2016, Nov)
Kazi, N.	Poster and Oral Presentation: Kazi, N, Mathews-Cimino, A, Cuda, J. "Diagnostic Utility of Her2/Neu Immunohistochemistry in Differentiating Paget's Disease of the Nipple from Native Toker Cells." Dermatology Research Day, The John Hopkins Hospital, Department of Dermatology. (2016 April)
Kazi, N	Weekly histopathology presentation of difficult melanoma and certain nonmelanoma skin cancers. Melanoma Tumor Board, The John Hopkins Hospital, Department of Dermatology. (2015-2016)
Kazi, N.	Biweekly histopathology presentation of challenging dermatology cases. Dermatology Grand Rounds, The John Hopkins Hospital, Department of Dermatology. (2015-2016)
Price, H.	Poster Presentation: Price H, O'Haver, J. "Congenital melanocystic nevi and the experience of itch: results from a patient based study." Society for Pediatric Dermatology, Boston MA (2015 July)
Kazi, N.	Paper Presentation: Synder, A. et al. "Genetic Basis for Clinical Response to CTLA-4 Blockade in Melanoma." N Engl J Med 2014. Mutations and Medicine in Melanoma. (2015 March)
Kazi, N.	Poster Presentation: Kazi, N, Wang J, Olson L, Fulmer C, Magro C. "Primary Cutaneous CD4+ Small/Medium Sized Pleomorphic T Cell Lymphoma Containing Numerous CD30+ T Cells: A Distinct Variant of Indolent CD4+ T Cell Lymphoproliferative Disease." Poster #215, American Society of Dermatopathology (ASDP) 2015 Annual Meeting, San Francisco, CA (2015)
Kazi, N.	Poster Presentation: Kazi, N, Mathews-Cimino, A, Cuda, J. "Diagnostic Utility of Her2/Neu Immunohistochemistry in Differentiating Paget's Disease of the Nipple from Native Toker Cells." Poster #335, American Society of Dermatopathology (ASDP) 2015 Annual Meeting, San Francisco, CA (2015)

Kazi, N.	Paper Presentation: Long, G. V. et al. "Combined BRAF and MEK Inhibition versus BRAF Inhibition Alone in Melanoma." N Eng J Med 2014. Combination Inhibitory Therapy for Melanoma. (2014 October)
Kazi, N.	Paper Presentation: Bald, T. et al. "Ultraviolet-radiation-induced Inflammation Promotes Angiotropism and Metastasis in Melanoma." Nature 2014. The Role of UV Radiation and Inflammation in the Metastasis of Melanoma. (2014 May)
Kazi, N.	Poster Presentation: Kazi N, Abraham R, Magro C. "Keratoderma-Like T Cells Dyscrasia: A Report of 13 Cases and its Disinfection from Mycosis Fungoides Plantaris/Palmaris." Poster Session IV: Dermatopathology #58, United States & Canadian Academy of Pathology (USCAP) 2014 Annual Meeting, San Diego, CA. (2014)
Kazi, N.	Poster Presentation: Kazi N, Magro C. "Histiocytic Sarcoma: A Report of Five Cases with Primary Cutaneous Involvement." Poster Session IV: Dermatopathology #59, United States & Canadian Academy of Pathology (USCAP) 2014 Annual Meeting, San Diego, CA. (2014)
Barr, J Lin, C	Online Case Presentation: "Lesions on Bilateral Legs" Jeffrey Collins, BS, Michelle Duff, DO, Jason Barr, DO, Richard L. Averitte Jr., MD, Christine C. Lin, MD, Dermatology Grand Rounds, American Osteopathic College of Dermatology, submitted August 14, 2014.
Barr, J Lin, C, and Averitte, R.	Poster Presentation: Collins, J., Duff, M., Barr, J., Averitte Jr., R., & Lin, C. "Elephantiasis Nostras Verrucosa." AOCD Annual Meeting. Seattle WA. (2014 Oct 26-28)
Price, H.	Poster Presentation: Mitkov M, Menaspase D, O'Haver J Lynn G, Reeder D, Hogeling M, Price H. "Pediatric Melanoma: a retrospective review of 19 cases." Society for Pediatric Dermatology, Couer D'Alene ID (2014 July)
Egnatios, G	Poster Presentation: "Sticks and Stones Can Break One's Bones Especially with Phosphaturic Mesenchymal Tumor." International Society of Dermatopathology, Denver, Colorado (2014 Mar19-20)

## PROFESSIONAL ACTIVITIES/COMMITTEES

Faculty Name(s)	Scholarly Activity
Barr, J	American Osteopathic College of Dermatology (2006 – present)
Blumetti, B.	American Osteopathic College of Dermatology (2007-present)
Lam, T.	American Osteopathic College of Dermatology (2007- present)
Blumetti, B.	Association of Osteopathic Directors and Medical Educators (2017-present)
Barr, J	American Academy of Dermatology (2006 – present)
Blumetti, B.	American Academy of Dermatology – Graduate Member (2007-present)
Egnatios, G	American Academy of Dermatology (2012-present)
Lin, C	American Academy of Dermatology (2002-present)
Lam, T.	American Academy of Dermatology (2007- present)
Price, H.	American Academy of Dermatology (2009- present)
Mengesha, Y.	American Academy of Dermatology (present)
Kazi, N.	American Academy of Dermatology (present)
Avirette, R.	American Academy of Dermatology (1999- present)
Barr, J	American Osteopathic Association (2001- present)
Barr, J	American Society for Dermatologic Surgery (2016 – present)
Blumetti, B	American Society for Dermatologic Surgery (2007-present)
Lin, C.	American Society of Dermatologic Surgery (2005- present)
Blumetti, B.	American Society of Mohs Surgery (2016-present)
Egnatios, G	American Society for Mohs Surgery (2017 – present)
Lin, C.	American Society of Mohs Surgery (2002- present)
Avirette, R.	American Society of Mohs Surgery (2002- present)
Price, H.	Arizona Dermatology and Dermatologic Surgery Society (2010- present)
Price, H.	Society for Pediatric Dermatology (2015 – present)

Egnatios, G	Maricopa County Medical Society (2008 -present)
Egnatios, G	American Society of Dermatopathology (2013-14)
Estreda, S.	American Society of Dermatopathology (present)
Mengesha, Y.	American Society of Dermatopathology (present)
Kazi, N.	American Society of Dermatopathology (present)
Mengesha, Y.	Phoenix Dermatologic Society (present)
Price, H.	Phoenix Dermatologic Society (2010 - present)
Egnatios, G	American Medical Association (2004 – present)
Estreda, S.	American Medical Association (present)
Mengesha, Y	American Medical Association (present)
Avirette, R.	American Medical Association (2002- present)
Blumetti, B.	Women’s Dermatologic Society (2008-2015)
Estreda, S.	International Society of Dermatopathology (present)
Mengesha, Y.	International Society of Dermatopathology (present)
Kazi, N.	International Society of Dermatopathology (present)
Blumetti, B.	American Osteopathic Association (2003-present)
Lam, T.	American Osteopathic Association (2002- present)
Patel, A.	American Society for Therapeutic Radiation and Oncology (present)
Patel, A.	American Society for Clinical Oncology (present)
Patel, A.	American College of Radiation Oncology (present)
Patel, A.	Radiological Society of North America (present)
Price, H.	Society for Pediatric Dermatology (2009- present)
Price, H.	American Academy of Pediatrics (2010- present)
Kazi, N.	United States and Canadian Academy of Pathology
Kazi, N.	College of American Pathologists
Avirette, R.	American Society of Laser Medicine (2002- present)
Avirette, R.	American Telemedicine Association (2014- present)
Avirette, R.	Arizona Bio Industry Association (2014- present)
Avirette, R.	MWU- OPTI Research Committee (2015- present)
Avirette, R.	Society of Investigative Dermatology (2016- present)
Estreda, S.	Principal Investigator for several ongoing IRB approved tissue bank-based research projects involving melanoma and non-melanoma skin cancer, Affiliated Dermatology and Affiliated Laboratories, 2014 – Present.
Lin, C.	Principal Investigator. Protocol A-101-WART-202 at Affiliated Dermatology in Scottsdale, AZ;. A Randomized, Double-Blind, Vehicle-Controlled, Parallel Group Study of A-101 Topical Solution Applied Once a Week in Subjects. August 2017-Present.
Lin, C.	Principal Investigator. ESPRIT Registry. A 10-Year Post-Marketing Observational Registry of Humira in Adult Patients with Chronic Plaque Psoriasis. Protocol PIO-023 at Affiliated Dermatology, Scottsdale, AZ. January 2009 –Present.
Lin, C.	Principal Investigator. A Multicenter Open Registry of Patients with Psoriasis Who Are Candidates for Systemic Therapy Including Biologics. Protocol C0168Z03 at Affiliated Dermatology, Scottsdale, AZ. Patients enrolled. August 2008 -Present.
Estreda, S.	Lead Investigator: Anti-PD-L1 (SP142) rabbit monoclonal primary antibody staining of non-small cell lung carcinoma. 2014.
Estreda, S.	Lead Investigator: Anti-PD-L1 (SP142) rabbit monoclonal primary antibody staining of triple-negative breast cancer. 2014.
Kazi, N.	Pathology Committee Member, 2016 Atlantic Dermatology Conference, The John Hopkins Hospital, Baltimore, MD. (2016)
Kazi, N.	Visiting Dermatopathology with Dr. Bruce Smoller, University of Rochester, Rochester, NY. (2014, August 30)

**PUBLISHED CHAPTER OR TEXTBOOK**

<b>Faculty Name(s)</b>	<b>Scholarly Project Title</b>
Egnatios G.	Yiannias JA, Egnatios GL, Mullen HE. Contact Dermatitis. In: Bope ET, Kellerman RD, Rakel RE. Conn's Current Therapy 2019. 1st Ed. Philadelphia, PA: Saunders; Forthcoming 2018.
Egnatios, G.	Yiannias JA, Egnatios GL. Contact Dermatitis. In: Bope ET, Kellerman RD, Rakel RE. Conn's Current Therapy 2018. 1st Ed. Philadelphia, PA: Saunders; 2017 Dec 25.
Egnatios, G.	Yiannias JA, Egnatios GL. Contact Dermatitis. In: Bope ET, Kellerman RD, Rakel RE. Conn's Current Therapy 2017. 1st Ed. Philadelphia, PA: Saunders; 2016 Dec 27.
Egnatios, G.	Yiannias JA, Egnatios GL. Contact Dermatitis. In: Bope ET, Kellerman RD, Rakel RE. Conn's Current Therapy 2016. 1st Ed. Philadelphia, PA: Saunders; 2015 Dec 8.
Egnatios, G.	Yiannias JA, Egnatios GL. Contact Dermatitis. In: Bope ET, Kellerman RD, Rakel RE. Conn's Current Therapy 2015. 1st Ed. Philadelphia, PA: Saunders; 2014 Nov 19.

**PUBLISHED JOURNAL ARTICLE/ABSTRACT/MANUSCRIPT SUBMISSION**

<b>Faculty Name(s)</b>	<b>Scholarly Project Title</b>
Barr J, Estrada S, and Averitte R.	Duff M, Levacy L, Barr J, Estrada S, Averitte R. "Cutaneous Myeloid Sarcoma" Journal of Clinical Pathology. Pending Publication.
Kazi, N.	Levandoski K, Girardi N, Kazi N, Loss M. "Eruptive Sebaceous Hyperplasia as a Side Effect of PO Tacrolimus in a Renal Transplant Recipient" Journal of the American Academy of Dermatology. (pending acceptance)
Kazi, N.	Kazi N, Weitz N, Yamashiro D, Lauren C. "A Case of Metastatic Poorly Differentiated Carcinoma in an Adolescent with De-Novo Germline APC Mutation and Gardner Syndrome Variant" JAMA Dermatology. (submission pending)
Kazi, N.	Kazi N, Wang J, Magro C. "Histiocytic Sarcoma: A Report of Six Cases with Primary Cutaneous Involvement" American Journal of Dermatopathology. (submission pending)
Blumetti, B. and Mengesha, Y.	Ferry M, Shedlofsky L, Newman A, Mengesha Y, Blumetti B. "Tinea InVersicolor: A Rare Distribution of a Common Eruption" Cureus 12(1): e6689. Doi: 10.7759/cureus.6689. (2020, January 17).
Barr J and Lin C	Newman AJ, Mullens D, Lin C, Barr J. "Subacute Cutaneous Lupus Erythematosus Observed with Ciprofloxacin" BMJ Case Rep. 2018 Dec 22; 11(1)
Barr J and Averitte R	Manway M, Blackburn S, Barr J, Hull E, Averitte R, Ahn Y. "Effects of Acupuncture on Chronic Idiopathic Pruritus: An Uncontrolled Pilot Study Evaluating Inflammatory Changed with Treatment" J Complement Integr Med. 2018 Nov 3; 16(3)
Lam, T.	Newman AJ, Mullens D, Pulford C, Lam T. "Cutaneous Pseudolymphoma Secondary to Gabapentin" BMJ Case Rep. 2018 Oct 21.
Blumetti, B. and Barr, J.	Newman AJ, Schneider A, Blumetti B, Barr J. "Chronic Cutaneous Lupus Erthematosus and Topical Clindamycin" BMJ Case Rep. pii: bcr-2018-226728. Doi: 10.1136/bcr-2018-226728. No abstract available. PMID: 30249740 (2018, September 23)
Estrada S and Barr J	Newman AJ, Mullens D, Estrada S, and Barr J "Cutaneous Angioleiomyoma of the Auricle: A Painless Variant of a Painful Tumor" BMJ Case Rep. 2018 Sep 18.

Barr J.	Newman AJ, Mullens D, Manway M, Barr J. "Red, White and Blues: Darier Disease and Mood Disorder" BMJ Case Rep. 2018 Aug 27
Barr J	Howard D and Barr J. "JA OCD: Cutaneous T-Cell Pseudolymphoma: A Case Report and Discussion" 2018 June.
Averitte, R.	Belden S, Uppalaapaiti C, Pascual A, Montgomery M, Leyva K, Hull E, and Averitte R. "Establishment of a Clinical-based Biorepository" Journal of Visualized Experiments. 2017 May 29;(123).
Estrada, S.	Zager JS, Gastman BR, Leachman S, Gonzalez RC, Fleming MD, Ferris LK, Ho J, Miller AR, Cook RW, Covington KR, Meldi-Plasseraud K, Middlebrook B, Kaminester LH, Greisinger A, Estrada SI, Pariser DM, Cranmer LD, Messina JL, Vetto JT, Wayne JD, Delman KA, Lawson DH, Gerami P. "Performance of a prognostic 31-gene expression profile in an independent cohort of 523 cutaneous melanoma patients." MC Cancer. 2018 Feb 5;18(1):130.
Barr, J.	Mentored PGY2 Mitchell Manway with poster presentation and manuscript submission: Manway M, Blackburn S, Barr J, Hull E, Averitta R, Ahn Y. "Effects of Acupuncture on chronic idiopathic pruritus: an uncontrolled pilot study evaluating inflammatory changes with treatment", 2018.
Estrada S. and Barr, J.	Submitted Manuscript: Newman A, Estrada S, Mullens D, Barr J. "Auricular angioleiomyoma: an unusual mimic of the common epidermoid cyst." 2018.
Lin, C.	Submitted Manuscript: Lin, C. "A Case of African Tick Bite Fever" BMJ Case Reports, 2018.
Barr, J.	Mentored PGY3 Dustin Mullens and PGY2 Andrew Newman in manuscript submission: Mullens D, Chaudhari H, Newman A, Barr J. "Acquired 'autoimmune' angioedema and systemic lupus erythematosus in a 40-year-old African American male." 2018.
Price, H.	Price, HN. "Congenital melanocytic nevi: update in genetics and management." Curr Opin Pediatr. 2016 Aug;28(4):476-82.
Egnatios, G.	Andrulonis R, Egnatios GL, Pride H. "Irregular, smooth, pink plaque on the back." Cutis 2016 May;97(5):E7-9.
Egnatios, G.	Egnatios, GL, Ferringer T. "Clinical follow up of atypical spitzoid tumors analyzed by fluorescence in situ hybridization." Am J Dermatopathol. 2016 Apr; 38(4):289-96.
Price, H.	Sorensen A1, Wolter S1, Patel N1, Hansen R1, Price H1. "Dermoscopy for Identification of Basal Cell Carcinomas in Basal Cell Nevus Syndrome During Carbon Dioxide Laser Surgery.". Pediatr Dermatol. 2016 Jan-Feb;33(1):109-11.
Barr, J	Chaudhari SP, Tam AY, Barr JA. "Curcumin: A Contact Allergen" J Clin Aesthet Dermatol. 2015 Nov;8(11):43-8.
Price, H.	Wadowski L, Balasuriya L, Price HN, O'Haver J. "Lice update: new solutions to an old problem." Clin Dermatol. 2015 May-Jun;33(3):347-54.
Price, H.	Michaels JD1, Hoss E, DiCaudo DJ, Price H. "Prurigo pigmentosa after a strict ketogenic diet." Pediatr Dermatol. 2015 Mar-Apr;32(2):248-51.
Price, H.	Price HN1, O'Haver J, Marghoob A, Badger K, Etchevers H, Kregel S. "Practical application of the new classification scheme for congenital melanocytic nevi." Pediatr Dermatol. 2015 Jan-Feb;32(1):23-7.
Barr J, Averitte R, and Lin C.	Collins, J., Duff, M., Barr, J., Averitte Jr., R., & Linn, C. "Elephantiasis Nostras Verrucosa". Journal of the American Osteopathic College of Dermatology, 2014 Vol 29, 26-28.
Price, H.	Jacobs A1, Price HN, Popenhagen MP. "Blowing away the pain: a technique for pediatric pain management." Pediatr Dermatol. 2014 Nov-Dec;31(6):757-8.

Price, H.	Fonseca V1, Price HN, Jeffries M, Alder SL, Hansen RC. "Crusted scabies misdiagnosed as erythrodermic psoriasis in a 3-year-old girl with down syndrome." <i>Pediatr Dermatol</i> . 2014 Nov-Dec;31(6):753-4.
Price, H.	Pickert AJ1, Carpentieri D, Price H, Hansen RC. "Early morphea mimicking acquired port-wine stain." <i>Pediatr Dermatol</i> . 2014 Sep-Oct;31(5):591-4.
Egnatios, G	Egnatios GL, Ferringer T, Dorion RP. "Multiple skeletal fractures and asymptomatic foot nodule." <i>ASDP Interactive Case Study - April 2014</i> .
Price, H.	Wolter S, Price HN." Atopic dermatitis." <i>Pediatr Clin North Am</i> . 2014 Apr;61(2):241-60.
Price, H.	Badger K, O'Haver J, Price H. "Recommendations for a. Comprehensive Management Plan for the Child Diagnosed With. Epidermolysis Bullosa." <i>Journal of the Dermatology Nurses' Assn</i> 5(2) 72-78.

## APPENDIX A – Description of HonorHealth Library Services Resources

### A. Evidence-based medicine

- 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).
- 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
- 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.
- 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.
- 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

- 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.
- 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 & publications from the National League for Nursing and the American Nurses' Association, CINAHL covers nursing, biomedicine, health sciences librarianship, alternative medicine, consumer health and 17 allied health disciplines.
- 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

- 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.
- 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

- Arizona Health Matters website (state and local public health data)
- National Guideline Clearinghouse Health Care Quality Tools and National Quality Measures (from the
- U.S. Agency for Healthcare Research and Quality)
- TOXNET, a National Library of Medicine database on toxicology, hazardous chemicals, environmental health and toxic releases
- GreenFILE database of published literature concerning environmental issues

#### D. Faculty Resources

- ProceduresConsult (via ClinicalKey) provides over 300 educational videos on procedures in Emergency, Internal Medicine, Anesthesiology, General Surgery, Cardiology and other specialties.
- 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)

- ClinicalKey contains over 1100 medical and nursing e-textbooks and manuals.
- STATRef includes over 140 medical and nursing e-textbooks.
- Ovid Books provides a small collection of LWW medical & nursing reference e-books
- 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.
  - a) Primary care/Family Medicine/Internal Medicine
  - b) Obstetrics & Gynecology
  - c) Surgery & Perioperative Care
  - d) Oncology
  - e) Subspecialties including Gastroenterology, Neurology, Orthopedics, Heart & Vascular,

Dermatology, Psychiatry, Pediatrics, and Geriatrics

- f) Business leadership & management
- g) Health business, management and leadership
- h) Professional development & certification (“test prep”) materials
- i) Various consumer health & wellness and chronic disease management topics, in alignment with HonorHealth priorities

#### F. eJournals, Full-text

- JAMA and JAMA Archives, JAMA Dermatology, Lancet, NEJM available electronically
- 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

- 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, available through UpToDate, is another drug information product, with features including aural pronunciation of the drugs’ names and chemotherapy regimens.
- FDA Electronic Orange Book (consumer information on generic drugs)

#### H. Herbals & Supplements

- 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.
- HerbMed (from the Alternative Medicine Foundation)
- National Center for Complementary & Integrative Health (NCCIH) resources (including clinical practice guidelines and literature reviews for health care professionals)
- CAM on Pubmed and Dietary Supplement Label Database (from the National Library of Medicine)

I. Patient Education/Consumer Health/Literacy resources

- MEDLINEplus (Consumer health info from the National Library of Medicine)
- CareNotes patient education resources (via Micromedex suite)
- Basics & Beyond the Basics series (via UptoDate)
- ExitCare (via ClinicalKey)
- A wide variety of health literacy resources inc Ask Me 3 and Teach Back methodology

## APPENDIX B Didactics Master Schedule

### AY18-19 DERMATOLOGY RESIDENCY DIDACTIC SCHEDULE

Date	Speaker	Lecture Title/Topic	Hrs	Faculty Supervising
7/09/2018	D. Mullens, DO (R)	KOH Training/Cutaneous Anatomy	0.5	J. Barr, DO (F)
	D. Mullens, DO (R)	Book Chapters: Woverton/Spitz/Elston	5.0	
	A. Newman, DO (R)	Book Chapters: Bologna	1.0	
	D. Mullens, DO (R)	Unknown Dermatopathology Slide Review	1.0	
7/16/2018	D. Mullens, DO (R)	Book Chapters: Elston/Spitz	3.0	B. Blumetti, DO (F)
	A. Newman, DO (R)	Book Chapters: Bologna	2.0	
	<b>B. Blumetti, DO (F)</b>	Attending Lectures: Biologics	1.0	
	<b>N. Kazi, MD (F)</b>	Unknown Dermatopathology Slide Review	2.0	
7/23/2018	A. Newman, DO (R)	Book Chapters: Elston/Bologna	3.0	J. Barr, DO (F)
	M. Manway, DO (R)	Book Chapters: Bologna/Wolverton	0.5	
	<b>E. Hull, PhD (F)</b>	Research	1.0	
	<b>S. Estrada, MD (F)</b>	Unknown Dermatopathology Slide Review	1.0	
7/30/2018	<b>B. Blumetti, DO (F)</b>	Hair Loss/Dermatitis/Hand/ Consulting Tough Cases	3.0	B. Blumetti, DO (F)
	<b>N. Kazi, MD (F)</b>	Unknown Dermatopathology Slide Review	0.5	
	A. Newman, DO (R)	Unknown Pathogen Review/Book Chapters: Bologna/Spitz	3.5	
8/06/2018	D. Mullens, DO (R)	Book Chapters: Spitz/Wolverton/ASDS	3.0	J. Barr, DO (F)
	M. Manway, DO (R)	Book Chapters: Bologna	3.5	
	<b>S. Estrada, MD (F)</b>	Dermatopathology Slide Review	1.5	
8/13/2018	A. Newman, DO (R)	Book Chapters: Bologna	3.0	J. Barr, DO (F)
	D. Mullens, DO (R)	Book Chapters: Elston/Spitz/Wolverton	2.5	
	<b>J. Barr, DO (F)</b>	Board Review/Basic Sciences	1.5	
	<b>S. Estrada, MD (F)</b>	Unknown Dermatopathology Slide Review	1.0	
8/20/2018	A. Newman, DO (R)	Book Chapters: Bologna	1.5	R. Averitte, MD (F)
	H. Mullen, DO (R)	Book Chapters: Spitz	0.5	
	<b>R. Averitte, MD (F)</b>	Allergan Training	3.0	
	<b>S. Estrada, MD (F)</b>	Unknown Dermatopathology Slide Review	0.5	
8/27/2018	D. Mullens, DO (R)	Book Chapters: Elston/Wolverton/Spitz/Bologna	1.5	R. Averitte, MD (F)
	D. Mullens, DO (R)	Photo Therapy/Using the machine	1.0	
	<b>R. Averitte, MD (F)</b>	Business		
	<b>N. Kazi, MD (F)</b>	Unknown Dermatopathology Slide Review	1.5	
9/10/2018	D. Mullens, DO (R)	Book Chapters: Elston/Bologna	3.0	J. Barr, DO (F)
	M. Manway, DO (R)	Book Chapters: Wolverton/Spitz	1.0	
	<b>N. Kazi, MD (F)</b>	Unknown Dermatopathology Slide Review	1.0	

9/17/2018	Nirusha Lachman, PhD	Superficial Anatomy Face	2.0	<b>C. Lin, MD (F)</b>
	D. Mullens, DO (R)	Book Chapters: Bologna/Board Review	3.0	
	<b>C. Lin, MD (F)</b>	Danger Zones - Airway	1.25	
	<b>Michelle Jones, PhD</b>	Psoriatic Arthritis	1.0	
9/24/2018	A. Newman, DO (R)	Book Chapters: Bologna	1.5	<b>J. Barr, DO (F)</b>
	D. Mullens, DO (R)	Book Chapters: Elston/Spitz/ASDS	3.5	
	M. Manway, DO (R)	Book Chapters: Bologna	1.0	
	<b>N. Kazi, MD (F)</b>	Unknown Dermatopathology Slide Review	1.0	
10/01/2018	A. Newman, DO (R)	Book Chapters: Bologna	1.0	<b>J. Barr, DO (F)</b>
	D. Mullens, DO (R)	Book Chapters: Elston/Wolverton/Board Review	4.0	
	M. Manway, DO (R)	Book Chapters: Bologna	1.0	
	<b>S. Estrada, MD (F)</b>	Unknown Dermatopathology Slide Review	2.0	
10/08/2018	A. Newman, DO (R)	Book Chapters: Bologna	1.5	<b>G. Egnatios, MD (F)</b>
	D. Mullens, DO (R)	Book Chapters: Elston/Bologna/Wolverton	3.25	
	<b>G. Egnatios, MD (F)</b>	Kodachrome & Hair Shaft Abnormalities	1.5	
10/15/2018	A. Newman, DO (R)	Book Chapters: Elston/Wolverton	2.0	<b>G. Egnatios, MD (F)</b>
	D. Mullens, DO (R)	Book Chapters: Bologna	3.0	
	<b>G. Egnatios, MD (F)</b>	Board Review/ Kodochromes	1.0	
	M. Manway, DO (R)	Book Chapters: Spitz	0.5	
	<b>S. Estrada, MD (F)</b>	Unknown Dermatopathology Slide Review	1.0	
10/23/2018	A. Newman, DO (R)	Book Chapters: Bologna	2.5	<b>G. Egnatios, MD (F)</b>
	<b>N. Kazi, MD (F)</b>	Unknown Dermatopathology Slide Review	1.25	
		Research	1.5	
	<b>G. Egnatios, MD (F)</b>	Journal Club	1.25	
10/30/2018	D. Mullens, DO (R)	Board Review	4.5	<b>J. Barr, DO (F)</b>
	M. Manway, DO (R)	Book Chapters: Bologna/Elston	3.5	
	<b>N. Kazi, MD (F)</b>	Unknown Dermatopathology Slide Review	1.0	
11/05/2018	A. Newman, DO (R)	Book Chapters: Bologna	1.0	<b>B. Blumetti, DO (F)</b>
	D. Mullens, DO (R)	Book Chapters: Elston/Spitz/Wolverton	3.5	
	M. Manway, DO (R)	Board Review	1.0	
	<b>N. Kazi, MD (F)</b>	Unknown Dermatopathology Slide Review	1.5	
11/12/2018	D. Mullen, DO (R)	Book Chapters: Elston/Board Review	2.5	<b>J. Barr, DO (F)</b> <b>R. Averitte, MD (F)</b>
	M. Manway, DO (R)	Book Chapters: Bologna	2.5	
	<b>S. Estrada, MD (F)</b>	Unknown Dermatopathology Slide Review	2.0	
11/19/2018	A. Newman, DO (R)	Book Chapters: Bologna/Board Review	1.5	<b>Y. Mengesha, MD (F)</b>
	D. Mullens, DO (R)	Book Chapters: Elston	1.0	
	M. Manway, DO (R)	Book Chapters: Bologna	2.0	
	<b>Y. Mengesha, MD (F)</b>	Attending Lecture: Pitfalls in Dermatology and Dermatopathology	1.0	
	<b>N. Kazi, MD (F)</b>	Unknown Dermatopathology Slide Review	1.5	
11/26/2018	A. Newman, DO (R)	Book Chapters: Bologna/Spitz/Wolverton/Board Review	4.0	<b>J. Barr, DO (F)</b>
	M. Manway, DO (R)	Book Chapters: Bologna	2.0	

	A. Newman, DO (R)	Board Review	1.0	
12/05/2018	D. Mullens, DO (R)	Book Review	2.0	<b>B. Blumetti, DO (F)</b>
	M. Manway, DO (R)	Book Chapters: Bologna	1.0	
	H. Mullen, DO (R)	Book Chapters: Bologna	1.0	
	A. Newman, DO (R)	Book Chapters: Bologna/Elston	2.0	
	<b>N. Kazi, MD (F)</b>	Unknown Dermatopathology Slide Review	1.0	
12/10/2018	D. Mullens, DO (R)	Book Chapters: Elston/Spitz	1.5	<b>R. Averitte, MD (F)</b>
	<b>S. Estrada, MD (F)</b>	Unknown Dermatopathology Slide Review	1.5	
	<b>R. Averitte, MD (F)</b>	Lecture; Simple Excisions, Basic Concepts and Pitfalls	2.0	
	M. Manway, DO (R)	Book Chapters: Bologna	0.5	
	H. Mullen, DO (R)	Book Chapters: Bologna	0.5	
	A. Newman, DO (R)	Book Chapters: Woverton	1.0	
<b>12/25/2018</b>	<b>Christmas</b>			
<b>12/24/2018</b>	<b>Holiday – Self Study</b>			
12/31/2018	D. Mullens, DO (R)	Book Chapters: Elston	1.5	<b>J. Barr, DO (F)</b>
	A. Newman, DO (R)	Book Chapters: Bologna/Spitz	2.25	
	M. Manway, DO (R)	Book Chapters: Woverton	1.25	
	H. Mullen, DO (R)	Book Chapters: Bologna	1.0	
1/07/2019	<b>S. Estrada, MD (F)</b>	Unknown Dermatopathology Slide Review	1.0	<b>B. Blumetti, DO (F)</b>
	A. Newman, DO (R)	Book Chapters: Elston/Bologna	3.0	
	M. Manway, DO (R)	Book Chapters: Bologna	2.0	
	H. Mullen, DO (R)	Book Chapters: Bologna	1.0	
	D. Mullens, DO (R)	Board Review	1.0	
<b>1/14/2019</b>	<b>Resident Interviews</b>			
1/21/2019	A. Newman, DO (R)	Book Chapters: Bologna/Elston Board Review	3.5	<b>T. Lam, DO (F)</b>
	H. Mullen, DO (R)	Book Chapters: Woverton	1.0	
	<b>T. Lam, DO (F)</b>	Lecture: Complex Closures	1.0	
	<b>S. Estrada, MD (F)</b>	Unknown Dermatopathology Slide Review	1.0	
1/28/2019	<b>N. Kazi, MD (F)</b>	Dermatopathology Slide Review	1.0	<b>J. Barr, DO (F)</b>
	D. Mullens, DO (R)	Book Chapters: Elston/Woverton/Spitz	3.0	
	D. Mullens, DO (R)	Board Review	2.0	
	A. Newman, DO (R)	Book Chapters: Bologna	1.0	
	M. Manway, DO (R)	Book Chapters: Bologna	1.0	
2/04/2019	<b>S. Estrada, MD (F)</b>	Dermatopathology Slide Review	1.5	
	D. Mullens, DO (R)	Board Review/Biopsy Clinic for IM Residents	6.5	
	M. Manyway, DO (R)	Board Review	0.5	
2/11/2019	In-House Exam		4.0	<b>G. Egnatios, MD (F)</b>
	D. Mullens, DO (R)	Board Review	1.0	
	<b>G. Egnatios, MD (F)</b>	Journal Club/Attending Lecture: Nails in Dermatology	2.0	

2/18/2019	<b>S. Estrada, MD (F)</b>	Unknown Dermatopathology Slide Review	1.0	<b>J. Barr, DO (F)</b>
	D. Mullens, DO (R)	Book Chapters: Elston	1.25	
	D. Mullens, DO (R)	Dermatology and Surgery	1.5	
	M. Manway, DO (R) H. Mullen, DO (R)	Biopsy Clinic for IM Residents	3.5	
	D. Mullens, DO (R) A. Newman, DO (R)	Board Review	3.5	
2/25/2019	<b>N. Kazi, MD (F)</b>	Unknown Dermatopathology Slide Review	1.0	<b>B. Blumetti, DO (F)</b>
	<b>B. Blumetti, DO (F)</b>	Attending Lecture: Cosmetic Training, Fillers and Relaxers	3.5	
	D. Mullens, DO (R)	Inpatient Derm Consults	1.0	
	D. Mullens, DO (R)	Book Chapters: Elston/Bologna	2.5	
3/04/2019	Dr. A. Friedman	GWU Scramble	1.0	<b>J. Barr, DO (F)</b>
	DR. K. Marathe	Pediatric Dermatology	1.0	
	DR. F. Glass	Dermatopathology	1.0	
	Dr. Z. Husain	Dermatology Surgery	1.0	
	Dr. B. Mitchell	Surgery/ General Dermatology	1.5	
	Dr. Al Ehrlich	General Dermatology/Contact Dermatitis	1.0	
	Dr. D. Mullens (R)	Dermatology Questions	1.25	
3/11/2019	Dr. V. Patel	GWU Scramble Surgical	1.5	<b>B. Blumetti, DO (F)</b>
	Dr. D. Perry	GWU Scramble Medical Dermatology	1.25	
	Dr. F. Glass	GWU Scramble Dermatopathology	1.5	
	<b>B. Blumetti, DO (F)</b>	Attending Lecture: Lasers- Basic Principles & Use in Principles	1.0	
	D. Mullens, DO (R)	Derm in Review Questions	1.25	
3/18/2019	D. Mullens, DO (R)	Book Chapters: Elston & Board Review	2.5	
	<b>S. Estrada, MD (F)</b>	Unknown Dermatopathology Slide Review	1.25	
	Rita Rayis	Micro Needling Clinic	3.5	
3/25/2019	<b>N. Kazi, MD (F)</b>	Unknown Dermatopathology Slide Review	1.5	
	DR. Feldman	GWU Board Review	6.0	
4/01/2019	<b>N. Kazi, MD (F)</b>	Unknown Dermatopathology Slide Review	1.0	
	A. Newman, DO (R)	Book Chapters: Bologna	1.0	
	D. Mullens, DO (R)	Book Chapters: Elston/Bologna	2.0	
	Rita Rayis	Chemical Peels	4.0	
4/08/2019	AOCD Conference	Self Study	1.0	
	<b>S. Estrada, MD (F)</b>	Unknown Dermatopathology Slide Review	1.0	
4/15/2019	<b>S. Estrada, MD (F)</b>	Unknown Dermatopathology Slide Review	2.0	<b>G. Egnatios, MD (F)</b>
	D. Mullens, DO (R)	Book Chapters: Elston/Bologna/Wolverton	3.0	
	A. Newman, DO (R)	Book Chapters: Bologna	0.5	
	D. Mullens, DO (R)	Merz/Oakstone Board Review	2.0	
	Dr. Chu	Pathophysiology of Atopic Dermatitis	1.5	
4/22/2019	<b>N. Kazi, MD (F)</b>	Unknown Dermatopathology Slide Review	1.0	<b>J. Barr, DO (F)</b>
	D. Mullens, DO (R)	Book Chapters: Elston/Bologna	2.0	
	A. Newman, DO (R)	Book Chapters: Bologna	1.0	

	M. Manway, DO (R)	Book Chapters: Bologna	1.0	
	<b>J. Barr, DO (F)</b>	Attending Lecture – Dermatologic Surgery	2.0	
4/29/2019	<b>S. Estrada, MD (F)</b>	Unknown Dermatopathology Slide Review	1.0	<b>G. Egnatios, MD (F)</b>
	D. Mullens, DO (R)	Book Chapters: Elston/Bologna/Wolverton/Spitz/Review	4.0	
	C	Book Chapters: Bologna	1.0	
	M. Manway, DO (R)	Book Chapters: Bologna	1.0	
5/06/2019	D. Mullens, DO (R)	Book Chapters: Elston/Bologna	2.0	<b>J. Barr, DO (F)</b>
	N. Kazi, MD (F)	Unknown Dermatopathology Slide Review	1.0	
	A. Newman, DO (R)	Book Chapters: Bologna	1.0	
	Dr. Wu	Allergy and Injectables	2.0	
	Carmen Rayis, PA	Cosmetic Injectable Clinic	3.0	
5/13/2019	S. Estrada, MD (F)	Unknown Dermatopathology Slide Review	1.0	<b>C. Lin, MD (F)</b>
	D. Mullens, DO (R)	Book Chapters: Elston/Bologna/Wolverton/Spitz	4.0	
	H. Mullen, DO (R)	Book Chapters: Bologna	1.0	
	M. Manway, DO (R)	Book Chapters: Bologna	1.0	
	C. Lin, MD (F)	Codin and Documentation	2.5	
5/20/2019	H. Mullen, DO (R)	Book Chapters: Elston	1.0	<b>G. Egnatios, MD (F)</b>
	N. Kazi, MD (F)	Unknown Dermatopathology Slide Review	1.0	
	A. Newman, DO (R)	Book Chapters: Bologna/Spitz/Board Review	5.0	
5/27/2019	Holiday- Self Study			
6/03/2019	HH Candor Training			
6/10/2019	D. Mullens, DO (R)	Book Chapters: Elston/Board Review	3.75	<b>J. Barr, DO (F)</b>
	S. Estrada, MD (F)	Unknown Dermatopathology Slide Review	1.25	
	N. Jain, MD	Exacerbating Factors in Atopic Dermatitis	1.25	
	C. Ugorji, MD	Hemangiomas to Treat or not to Treat	1.0	
06/17/2019		Board Review		
6/24/2019	D. Mullens, DO (R)	Book Chapters: Elston/Board Review	2.0	<b>B. Blumetti, DO (F)</b>
	A. Newman, DO (R)	Book Chapters: Bologna	1.0	
	M. Manway, DO (R)	Book Chapters: Bologna	1.0	
	<b>B. Blumetti, DO (F)</b> <b>R. Hartman</b>	Cool Sculpting	4.0	

**Key**

**Bold Name, Credentials (F) = Faculty**