Annual Progress Report of Academic Output
Clinical Research Study Program
Duke Clinical Research Institute

Academic Year:  August 2016 – July 2017

Hassan Alkazemi – Duke Pediatric Urology
**Mentor:** Jonathan Routh, MD

**Program:** Completed Clinical Research Study Program

**Presentations/Abstracts:**


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**Callie Berkowitz – Duke Radiation Oncology**

**Mentor(s):** Bridget Koonz, MD

**Program:** Completed Clinical Research Study Program

**Project Title:**

Bridging the Gap: PCP and Patient Needs in Head and Neck Cancer Survivor Care
The Cancer Distress Coach for PTSD Symptoms: Targeting at-risk Patients

**Scholarship(s):** Duke Institute for Heath Innovation

**Publications:**

**Accepted:**


**Submitted:**


Berkowitz C, Zullig LL, Koontz BF, Smith SK. Prescribing an App? Oncology Providers' Views on Mobile Health Apps for Cancer Care. JCO Clinical Cancer Informatics - submitted 7/2017
Presentations/Abstracts:


Berkowitz C, Zullig L, Koontz BF, Smith SK. Prescribing an app? Understanding Oncology Providers' Views on Mobile Health Apps for Cancer Care. Presented at: The Lifecycle of Digital Health Science. 5th Annual mHealth@Duke Conference; 2017 Apr 12; Durham, NC.


Leslie Chang – Duke Cardiology

Mentor(s): Adrian Hernandez, MD and Adam DeVore, MD Program: Completed Clinical Research Training Program Project Title: CONNECT-HF Scholarship: DIHI Scholarship for the CRTP course AHA Young Investigator's Database Seed Grant Award

Medical School Contributions: Served on Duke Clinical Research Undergraduate Experience Panel

Publications:
Accepted:

Submitted:

Patient and Caregiver Perspective on Challenges and Strategies towards Heart Failure Self-Care.

Presentations/Abstracts:


Curry Cheek – MBA/Dual Degree Student

Mentor(s): Kevin Schulman, MD
Program: MBA/Dual Degree in Clinical Research
Project Title: Mobile Health Technologies: Best Strategies for Application Development
Scholars/tip: J. Alexander McMahon Scholarship Endowment in the Health Sector Management Program at Duke's Fuqua School of Business
Award(s): Rab Venable Medical Student Award for Research in Ophthalmology
Publications:
Accepted:
PUBLISHED CASE STUDY: Schulman K, Cheek C. FROM mHEALTH HACKATHON TO REALITY: DIABETES CARE. Harvard Business School Case 317-105, March 2017

Submitted:
Schulman K, Dolor R, Cheek C. Best Strategies for Mobile Health Application Development and Diabetes Management.

Presentations/Abstracts:
Best Strategies for Mobile Health Application Development and Diabetes Management. Duke University School of Medicine Alpha Omega Alpha Day, Durham, North Carolina, August 4, 2017

Scan Chen – Duke Cardiology

Mentor(s): Manesh Patel, MD

Program: Completed Clinical Research Study Program

Scholars/zip: Thrombolytic Therapy in ROCKET AF

Acknowledgement(s): Assisted Research Team in Drafting a grant proposal and IRB proposal for a Machine Angiography Program currently under review at the NIH

Publications:
Submitted:
Thrombolytic Therapy in Anticoagulated Patients Observations from ROCKET AF. Submitted to Stroke, Editorial: JACC Interventions, Coronary Physiology

Chen ST, Patel MR. Location, Location, Location. JACC CV Interventions 2016;9(23):2400-2402.

Presentations/Abstracts:
Thrombolytic Therapy in Anticoagulated Patients Observations from ROCKET AF, Poster Presentation, American College of Cardiology Scientific Session, Washington DC, March 2017


Tracy Cheng – Duke Otolaryngology and Head and Neck Surgery

Mentor(s): Dennis Frank-Ito, MD

Program: Completed Clinical Research Study Program
**Scholarship:** NIH T32 Grant

**Project Title:**
Computational Fluid Dynamic Models of Laryngeal and Sinonasal Airflow
The Impact of Laryngotracheal Stenosis on Respiratory Function
Anatomic Characterization of Patients with Chronic Rhinosinusitis Induced Olfactory Dysfunction.

**Publications:**
**Cheng T,** Carpenter D, Witsell D, Hachem RA, Jang DW, Frank-Ito DO. Anatomic Qualification of Nasal Cavity and Olfactory Cleft in Chronic Rhinosinusitis with and without Olfactory Dysfunction.

**Presentations/Abstracts: Oral Presentation:**

**Poster Presentation:**
**Cheng T,** Carpenter D, Witsell D, Hachem RA, Jang DW, Frank-Ito DO. Anatomic Quantification of Nasal Cavity and Olfactory Cleft in Chronic Rhinosinusitis with and without Olfactory Dysfunction. Poster Presentation in the American Laryngological Association's 2017, Spring Meeting, San Diego, CA

**Cheng T,** Honeybrook A, Choi K, Gray A, Snyder L, Palmer S, Hachem RA, Jang DW.
Timing and Frequency of Sinus Surgery are Associated with Lung Transplant Outcomes in Cystic Fibrosis Patients. Duke University School of Medicine Alpha Omega Alpha Day, Durham, North Carolina, August 4, 2017

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**Vinay Choksi – Duke Internal Medicine**

**Mentor(s):** Peter Ubel, MD

**Program:** Completed Clinical Research Study Program

**Project Title:** Decision Aids on Prostate Cancer Patients Activation

**Publications:**
**Submitted:**
Scherr K, **Choksi V,** Ubel P. How internet descriptions of serious illnesses may inadvertently harm patients and families. Submitted to Annals of Internal Medicine Paper and BreakingBadNews.com

**Presentations/Abstracts:**
Preferences: A Qualitative Analysis of the Contralateral Prophylactic Mastectomy Decision; Society of Medical Decision Making: October 25th: Pittsburgh PA


Marcus DiLallo – Orthodic Surgery

Mentor(s): Michael Bolognesi, MD and Thorsten Seyler, MD

Program: Completed Clinical Research Study Program

Publications: Submitted:
Goltz DE, Baumgartner, BT, Politzer CS, DiLallo M, Bolognesi MP, Seyler, TM. The ACS NSQIP Surgical Risk Calculator Has a Role in Predicting Discharge to Post-Acute Care in Total Joint Arthroplasty. Journal of Arthroplasty. 2017, Aug

Presentations/Abstracts:
Oral Presentations:
DiLallo, M, Politzer C, Bolognesi, M, Seyler, TM. The Role of Hepatitis C Viral Load and Total Joint Arthroplasty Complication Rates. Oral Presentation presented at: Musculoskeletal Infection Society; Boston, MA, USA. August 2017

DiLallo M, Politzer CS, Bolognesi, MP, Seyler TS. The Role of Hepatitis C Viral Load and Total Joint Arthroplasty Complication Rates. Oral Presentation to be presented at: North Carolina O1ihopedic Association; Williamsburg, VA, USA. October 2017

Kildow BJ, Politzer CS, DiLallo M, Seyler TM, Bolognesi MP. Shmi- and Long-Te1m Post-Operative Complications Following Total Joint Arthroplasty in Patients with HIV, Hepatitis B, or Hepatitis C. Oral Presentation to be presented at: Southern O1ihopaedic Association; Hilton Head, SC, USA. June 2017

Plate JF, DiLallo M, Wohler AD, Langfitt MK, Lang JE, Kleeman L, Seyler TM. Vitamin D Levels Influence Complication Rates Following Total Joint Arthroplasty. Oral Presentation to be presented at: Nmih Carolina O1ihopedic Association; Williamsburg, VA, USA. October 2017

Presentation to be presented at: North Carolina Orthopedic Association; Williamsburg, VA, USA. October 2017

Politzer CS, DiLallo M, Goltz DE, Green CL, Bolognesi MP, Seyler TM. (October, 2017). Nutritional Status Predicts Short-Term Clinical Outcomes following Total Joint Arthroplasty. Oral Presentation to be presented at: Eastern Orthopaedic Association; Miami, FL, USA.


Poster Presentations:
Baumgainer W, Goltz DE, DiLallo M, Politzer CS, Bolognesi MP, Seyler TM. The ACS NSQIP Surgical Risk Calculator Has a Role in Predicting Discharge to Skilled Nursing or Rehabilitation Facility in Total Joint Arthroplasty. Poster to be presented at: American Association of Hip and Knee Surgeons; Dallas, TX, USA. November, 2017

Belay ES, DiLallo M, Hallows R. The Learning Curve for Anterior-Approach to Total Hip Arthroplasty. Poster to be presented at: North Carolina Orthopedic Association; Williamsburg, VA, USA. October, 2017

DiLallo M, Baumgartner W, Bolognesi MP, Seyler TM. Primary vs. Conversion Total Hip Arthroplasty: Perioperative Comparisons. Poster to be presented at: American Association of Hip and Knee Surgeons; Dallas, TX, USA. November, 2017

DiLallo M, Politzer C, Bolognesi M, Seyler TM. Primary vs. Conversion Total Hip Arthroplasty: Cost and Perioperative Comparisons. Poster to be presented at: Eastern Orthopaedic Association; Miami, FL, USA. October, 2017

DiLallo M, Politzer CS, Goltz, DE, Bolognesi MP, Seyler TM. The Role of Hepatitis C Viral Load and Total Joint Arthroplasty Complication Rates. Poster to be presented at: American Association of Hip and Knee Surgeons; Dallas, TX, USA. November, 2017


Politzer CS. DiLallo M, Goltz DE, Green CL, Bolognesi MP, Seyle TM. Nutritional Status Predicts Short-Term Clinical Outcomes following Total Joint Arthroplasty. Poster to be presented at: American Association of Hip and Knee Surgeons; Dallas, TX, USA. November, 2017
Daniel Goltz – MBA/Dual Degree Student

**Mentor(s):** Michael Bolognesi and Thorsten Seyler, MD

**Program:** MBA/Dual Degree in Clinical Research

**Awards:**
Best Podium Presentation, Total Joint Arthroplasty Division, N01ih Carolina O1ihopaedic Association 2016 Annual Meeting, Pinehurst, NC

National Quality Improvement and Health Outcome Award, Music and Memory, American Medical Directors Association, 2016 Annual Symposium, Orlando, FL

**Appointments:** Duke University Graduate and Professional Student Council Member, 3 Year Term on the Duke University Board of Trustees.

**Scholars/tip:** Albert Schweitzer Fellowship for Leaders in Service Award

**Publications:**

Goltz DE, Baumgaiiner BT, Politzer CS, DiLallo M, Bolognesi MP, Seyler TM. The ACS NSQIP Surgical Risk Calculator Has a Role in Predicting Discharge to Post-Acute Care in Total Joint Arthroplasty. Journal of Arthroplasty. Submitted June 2017


**Submitted:** Presentations/Abstracts:


Politser CS, DiLallo M, Goltz DE, Green CL, Bolognesi MP, Seyler TM. Nutritional Status Predicts Sho1i-Term Clinical Outcomes Following Total Joint Al猪roplasty. (by Politser)
Eastern Orthopaedic Association, October 2017, Miami, FL


Kleeman, LT, Goltz, DE, Seyler, TM, Attarian, D, Wellman, SS, Bolognesi, MP Comparing Outcomes of Metal-on-Metal ASR to Pinnacle/Ultamet Total Hip Arthroplasty. North Carolina Orthopedic Association, October 2016, Pinehurst, NC

Goltz DE, Murphy KR, Coleman D, White HK. Challenges and Successes Bringing Personalized Music to Dementia Patients. DUBS Quarterly Conference, October 2016, Durham, NC


Goltz DE, Murphy, KR, Coleman, D, Ge1main, CM, White, HK. Implementation and Efficacy of a Personalized Music Program in an Assisted Living Center. Dementia beyond Disease, April 2016, Durham, NC


Tracy Han – Duke MBA/Dual Degree
Mentor(s): Judd Moul, MD

Program: MBA/Dual Degree in Clinical Research

Scholarship:
Duke Dual Degree Scholarship
PDC Outcomes Research Team (PORT) Steering Grant
Robert M. Califf Clinical Research Grant Awardee

Project Title: Radical Prostatectomy Patient Database

Publications:
Accepted:

Presentations/Abstracts:
Han T, Gokhan I, Jibari G, Qi R, Moul J. Over Half of Contemporary Clinical Gleason 8 on Prostate Biopsy are downgraded at Radical Prostatectomy. Poster Presentation at the American Urological Association Conference, Boston, MA. May 2017


Nathaniel Harris – Duke Rheumatology

Mentor(s): Megan Clowse, MD, MPH

Program: Completed Clinical Research Study Program

Project Title: Patient-Reported Outcomes in the Duke Autoimmunity in Pregnancy Registry.

Scholarship:
Medical Student Preceptorship from the Rheumatology Research Foundation to
continue my work during fomih year and present this research at the annual ACR meeting

**Medical School Contributions:**
Presented my work to the DAPPAC - the Duke Autoimmune Pregnancy Patients Advisors and Collaborators group. This was a unique opportunity to present my work to patients who are helping to direct our research agenda, and solicit their feedback regarding the survey instruments we use. This has impacted our clinical care and research.

**Publications:**
*Submitted:*
Patient-Rep01ied Disease Activity and Adverse Pregnancy Outcomes in Systemic Lupus Erythematosus and Rheumatoid Arthritis - under review

**Presentation/Abstracts:**
Reproductive Issues in Rheumatic Disorders. American College of Rheumatology (ACR) Annual Meeting. San Diego, CA

HalTis H, Eudy A, Clowse M. Patient-Reported Disease Activity and Adverse Pregnancy Outcomes in Systemic Lupus Erythematosus and Rheumatoid Arthritis. Duke University School of Medicine Alpha Omega Alpha Day, Durham, North Carolina, August 4, 2017

**Neha Kayastha – Duke Hematology**

**Mentor(s):** Thomas LeBlanc, MD

**Program:** Completed Clinical Research Training Program

**Project Title:** Symptom Burden, Quality of Life and Distress among Adults with Acute Myeloid Leukemia

**Teaching Role:** Taught Second Year Medical Students Practice Course and Clinical Skills Class. These courses are taught in small groups, each with a faculty leader and student leader (who is typically a third year).

**Publications:**
*Submitted:*

**Presentations/Abstracts:**
Kayastha N, Pollak Kl, LeBlanc TW. Open Notes: A Qualitative Study of Oncology Patients' Experiences Reading Their Cancer Care Notes. Palliative and Supportive Care in Oncology Symposium. October 2017, San Diego, CA and for Duke University School of Medicine Alpha Omega Alpha Day, Durham, No1ih Carolina, August 4, 2017.
Allison Kratka – Duke Internal Medicine

Mentor(s): Peter Ubel, MD

Program: Completed Clinical Research Study Program

Project Title: HIV Cure Studies: Risk, Risk Perception and Ethics

Presentations/Abstracts:

Jesse Liu – Duke Dermatology

Mentor(s): Jennifer Powers, MD

Program: Completed Clinical Research Study Program

Scholarship: Dean's Merit Scholarship

Project Title: Microbiome of Cutaneous Sear Formation

Publications:
Submitted:


**Presentations/Abstracts:**
The Microbiome of Cutaneous Scar Formation. Present at the European Society for Dermatologic Research (ESDR) Annual Meeting, September 2017


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**Colin O’Leary – Duke Internal Medicine**

*Mentor(s):* Alex Cho, MD and Kevin Shah, MD

*Program:* Completed Clinical Research Study Program

*Course Work:* Introduction to Healthcare Markets and Policy

*Project Title:* Quality Improvement through Quality Metrics & Variance Analysis in Primary Care

*Publications:*

*Submitted:*


*Presentations/Abstracts:*

*Abstract:*
Patel MP, Schettini P, O’Leary CP, Shah KP. Closing the Specialty Referral Loop; An Imperative for a Resilient primary Care Network. Journal of General Internal Medicine, Abstracts from the 2017 Society of General Internal Medicine Annual Meeting

*Poster Presentations:*
2017 Annual Scientific Session of the American College of Physicians (March 30-April 1 at the San Diego Convention Center)/ACP Internal Medicine Meeting 2017 National Abstract Competition: won NC ACP competition

Closing the Specialty Referral Loop: Are Referrals from Primary Care to Specialists
Actually Completed? 12th Annual Duke Health Patient Safety and Quality Conference (March 23 at the Durham Convention Center)

What Happens to a Referral?: Life-Cycle Analysis of Referrals from Duke Primary Care to Duke Specialty Care. 2017 Annual Scientific Session of the North Carolina Chapter of the American College of Physicians (February 24-25 at the Sheraton Imperial Hotel in Durham)

Closing the Specialty Referral Loop: Are Referrals from Primary Care to Specialists Actually Completed? (Student Poster winner). 50th Anniversary STFM Annual Spring Conference: Annual 2017 Fellows, Residents, or Students Research Works-in-Progress Poster (May 5-9, 2017 in San Diego)

Primary Care to Specialty Care Referrals: An Analysis of Closing the Loop

Oral Presentations:

Duke Primary Care Director's Meeting. NC Mutual, Durham NC, April 13, 2017 Closing the Specialty Referral Loop: An Imperative for a Resilient Primary Care Network

2017 Endocrinology Grand Rounds. February 17, 2017. Quality Improvement in Diabetes Management: The Duke Primary Care Perspective. Duke University Hospital

Stephanie Pagliuca – Harvard Study Away Student

Mentor(s): Alex Haynes, MD, MPH

Program: Completed Clinical Research Study Program

Project Title: Does Management Matter?

Presentations/Abstracts:
Submitted:
Quality of Management Impacts Neonatal Outcomes in India
Variation in Management is Associated with Quality of Care in US Hospitals

Malhar Patel – Duke Pediatrics

Mentor(s): Dev Sangvai, MD and Kevin Shah, MD

Program: Completed Clinical Research Study Program

Scholarship: Duke Dean’s Merit Full Tuition Scholarship

DIHI 3rd Year Research

Project Title: Analyzing Implementation of a PSA Screening Algorithm

Abstract:
Bae J, Patel M, Cummings C. Improving Usage of Duke Medicine Discharge Template, Quality and Innovation Scholars Program Symposium, April 2015


Cary Politzer – Duke Orthopedics

Mentor(s): Richard "Chad" Mather III, MD, Michael Bolognesi, MD, Thorsten Seyler, MD

Program: Completed Clinical Research Study Program

Scholarship: Robert M. Califf Clinical Research Grant Awardee

Project Title: Using Social Incentives to Increase Response Rate to Routine Patient Reported Outcome Measurement after Episodic Healthcare Interventions.

Publications:
Submitted:
Kildow BJ, **Politzer CS**, DiLallo M, Bolognesi MP, & Seyler TM. Short- and Long-Term Post-Operative Complications following Total Joint Arthroplasty in Patients with HIV, Hepatitis B, or Hepatitis C. *Journal of Arthroplasty*. (Submitted July 2017).


**Presentations/Abstracts:**

**Accepted:**


**Politzer CS**, DiLallo M, Goltz DE, Green CL, Bolognesi MP, Seyler TM. Nutritional Status Predicts Short-Term Clinical Outcomes following Total Joint Arthroplasty. Podium, Eastern Orthopaedic Association Annual Meeting (Accepted June 2017) and North Carolina Orthopaedic Association Annual Meeting (Accepted July 2017).

**Politzer, CS**, Kildow BJ, Goltz DE, Green CL, Seyler TM. Trends in Opioid Use before and After Total Knee Arthroplasty. Accepted for Poster Presentation at the Association of Hip and Knee Surgeons (A.AHKS) annual meeting, Dallas, TX on November 2-5, 2017. And at the Southern Orthopaedic Association Annual Meeting (June 2017) and Eastern Orthopaedic Association Annual Meeting (Accepted June 2017), Duke University School of Medicine Alpha Omega Alpha Day, Durham, North Carolina, August 4, 2017.

DiLallo M, **Politzer CS**, Bolognesi MP, Seyler TM. Primary vs. Conversion Total Hip Arthroplasty: Cost and Perioperative Comparisons. Podium, Eastern Orthopaedic Association Annual Meeting (Accepted June 2017).

DiLallo M, **Politzer CS**, Wellman SS, & Seyler TM. Hepatitis C Viral Load and Total Joint Arthroplasty. Podium (by M DiLallo), Musculoskeletal Infection Society Annual Meeting (Accepted June 2017).

**Oral Presentation:**
Kildow BJ, Politzer CS, DiLallo M, Seyler TM, & Bolognesi MP. Short- and Long-Term Post-Operative Complications Following Total Joint Arthroplasty in Patients with HIV, Hepatitis B, or Hepatitis C. Southern Orthopaedic Association Annual Meeting (June 2017).

**Poster Presentations:**

**David Tat – UCSF Study Away Student**

**Mentor(s):** June Chan, MD

**Program:** Completed Clinical Research Study Program

**Project Title:** Calcium Intake and Risk of Prostate Cancer Progression in Affected Men: Results from the CaPSURE Registry.

**Presentations/Abstracts:**
Tat D, Kenfield SA, Cowan JE, Broering JM CatToll PR, Van Blarigan EL, Chan JM. Milk and Other Dairy Foods in Relation to Prostate Cancer Recurrence: Data from the Cancer of the Prostate Strategic Urologic Research Endeavor (CaPSURE™). Duke University School of Medicine Alpha Omega Alpha Day, Durham, North Carolina, August 4, 2017

**Tolulope Tcniola – Duke Community and Family Medicine**

**Mentor(s):** Patricia Moorman, MD

**Program:** Completed Clinical Research Study Program

**Scholarship:** Ovarian Cancer Research Scholarship

**Project Title:** Evaluating Myocardial Scar Patterns on Cardiac MRI as a Diagnostic and Prognostic Tool for Patients with Troponin-Positive Myocardial Necrosis.

**Presentations:**
**Oral:**
Teniola, T, Wang F, Alberg AJ, Bandera EV, Barnholtz-Sloan JB, Bondy M, Cote ML,

Phillip Tseng – Duke MBA/Dual Degree

Mentor(s): Kevin Schulman, MD

Program: MBA/Dual Degree in Clinical Research

Scholarship:
Medical Faculty Wives Scholarship
Thomas Frist, MD Scholarship
Dual-Degree Scholarship

Project Title: Transaction Costs in Healthcare

Presentations:
Oral:

Cole Ziegler – Duke University

Mentor(s): Alex Lirnkakeng, MD

Program: Completed Clinical Research Study Program

Project Title: Impact of Cardiac Magnetic Resonance Imaging on Patient Outcomes in the Emergency Department: A Retrospective Study.

Publications:
Submitted:

Williams AM, Reis DJ, Powell AS, Neira LJ, Nealey KA, Ziegler CE, Kloss ND, Bilimoria JL, Smith CE, Walker BM. The Effect of Intermittent Alcohol Vapor or Pulsatile Heroin on Somatic and Negative Affective Indices during Spontaneous Withdrawal in Wistar- Rats. Psychopharmacology (Berl) 2012;223(1):75-88. (PMID: 22461104)

Presentations/Abstracts:

Oral: