Annual Progress Report of Academic Output
Medical Student
Clinical Research Study Program

Academic Year: August 2019 - July 2020

Duke Clinical Research Institute
LaMani Adkins – Study Away, University of Michigan OB/GYN

**Mentor:** Okeoma Mmeje, MD

**Program:** Clinical Research Study Program

**Project Title:** A mixed methods study of expedited partner therapy for Michigan youth: The right choice for the right clinical setting.

**Awards/Scholarships:** Provost Research/Community Health Grant - $18,700

**Publications:**


**Presentations/Abstracts:**


Adkins LD, Bell J, Tilea A, Mmeje O. A mixed methods study of expedited partner therapy for Michigan youth: The right choice for the right clinical setting. The 51st Annual Duke School of Medicine Research Symposium (formely known as AOA Day), August 2020, Durham, NC.

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Kelby Brown – Duke Pediatrics

**Mentor:** Charlene Wong, MD

**Program:** Clinical Research Study Program

**Project Title:** Examining opioid-related harms in children and adolescents using NC Medicaid claims data

**Awards/Scholarships:** Duke-Margolis Scholar in Health Policy and Management Scholarship

**Additional Course Work:**

- Intro to Health Markets, Duke University School of Medicine, Durham, NC
- High Value Health Care, Duke University School of Medicine, Durham, NC

**Publications In Progress:**

Systematic review of the impact of alternative payment models on stroke care.

Presentations/Abstract:


Drew Colman – Duke OB/GYN

Mentor: Geeta Swamy, MD and Beverly Gray, MD

Program: Clinical Research Study Program

Project Title: Patient experience of transgender individuals considering hysterectomy

Publications
In Progress:
Colman DE, Weber JM, Erkanli A, Myers, Gray BA. Patient and surgery characteristics of hysterectomies in transgender individuals: A national inpatient sample analysis.

Colman DE, Granados I, Fish L, Gray BA. Hysterectomies in trans, non-binary, and gender non-conforming individuals: A qualitative study.

Presentations/Abstracts:
Colman DE, Weber JM, Erkanli A, Fish L, Myers E, Gray BA. Bilateral oophorectomy as part of Gender Affirmation Surgery (GAS): Prevalence and patient considerations. The 51st Annual Duke School of Medicine Research Symposium (formely known as AOA Day), August 2020, Durham, NC.

Sarah Davidson – Study Away – The University of Queensland, Australia

Mentor: Leonie Callaway, MD

Program: Clinical Research Study Program

Project Title: Lifetime psychosocial stress and hypertensive disorders of pregnancy

Publications
Submitted:


Presentations/Abstracts:
Alexander Fenn – Duke Emergency Medicine

**Mentor:** Adrian Hernandez, MD

**Program:** Clinical Research Study Program

**Project Title:** Using machine learning in emergency department patient flow

**Awards/Scholarships:** Duke Institute for Health Innovation Scholar Program

**Publications:**

**Submitted:**


**Presentations/Abstracts:**


Jemi Galani – Duke Cardiology

**Mentor:** W. Schuyler Jones, MD

**Program:** Clinical Research Study Program

**Project Title:** Patient and clinician factors associated with amputation and poor cardiovascular outcomes in the Duke Health System.

**Presentations/Abstracts:**

Galani J, Mulder H, Rockhold F, Weissler EH, Baumgartner I, Berger JS, Blomster JI, Fowkes GR,
Hiatt WR, Katona BG, Norgren L, Mahaffey KW, Quint JK, Patel M, Jones WS. Association of chronic obstructive pulmonary disease with morbidity and mortality in patients with peripheral artery disease: Insights from the EUCLID Trial. The 51st Annual Duke School of Medicine Research Symposium (formerly known as AOA Day), August 2020, Durham, NC.

**Christine Ha – Duke Ophthalmology**

*Mentor:* Heather Whitson, MD  

*Program:* Clinical Research Study Program  

*Project Title:* Evaluating physical resilience after elective surgery in the elderly population  

*Awards/Scholarships:* AGS Annual Scientific Meeting: Top scoring student first author selected for Presidential Poster Show and awarded travel stipend  

*Additional Coursework:* Pandemic elective, Duke University School of Medicine, Durham, NC  

*Poster Presentations:*  


**Jordan Hildenbrand – Duke Oncology**

*Mentor:* Thomas LeBlanc, MD  

*Program:* Clinical Research Study Program  

*Project Title:* Patient understanding of palliative care in those with advanced cancer: A mixed methods study  

*Additional Coursework:*  

- Duke Clinical Research Undergraduate Experience Panel Member  
- Pandemic elective course, Duke University School of Medicine, Durham, NC  
- Now completing the Certificate in Theology and Healthcare in the Duke Divinity School during the 2020-2021 School year, Duke University School of Medicine, Durham, NC  
- Leadership in a Pandemic Elective, Summer 2020, Duke University School of Medicine, Durham, NC
Publicatons:
Submitted:

Pending:
Hildenbrand JD, Park HS, Casarett DJ, Ellis AM, Herring KW, Kamal AH, Power S, Troy JD, Wolf S, Zafar SY, Leblanc TW. Patient-reported distress as an early-warning sign of unmet palliative care needs and increased healthcare utilization in patients with advanced cancer.

Presentations:


Karen Lin – Duke Pediatrics

Mentor: Eliana Perrin, MD

Program: Clinical Research Study Program

Project Title:
- Does parental health literacy change as parenting experience increases?
- Positive Outliers: Identifying resiliency in obesogenic environments
- Greenlight Plus Study: Approaches to Early Childhood Obesity Prevention

Coursework: The Duke Health Disparities Research Curriculum (Fall 2019-Spring 2020)

Awards/Scholarships:
- Charles D. Watt Travel Award (Spring 2018)
- DukeMed Engage Travel Grant (Spring 2018)

Other:
- Graduate student member of Bass Connections Project, Refining Surveillance for Zoonotic Respiratory Viruses in Sarawak, Malaysia, One Health Lab
- Developer of “Sprout Kits” team with Root Causes Student Group- Home gardening kits along with educational materials delivered to youth in Durham via a contact-less grocery delivering framework. Partnering with community organizations such as Interfaith Food Shuttle, the Scrap Exchange, and El Futuro. Supporting sustainable and humane production of food in combination with access to healthy foods.
Presentations/Abstracts:


Olivia Lin – Duke OB/GYN

*Mentor:* Laura Svetkey, MD

*Program:* Clinical Research Study Program

*Project Title:* Outcomes of patients with lung neuroendocrine tumors

*Additional Coursework:* Health Disparities Research Curriculum, REACH Equity Center, Duke University Medical Center

*Publications:*

*Submitted:*


Presentations/Abstracts:

**Lin O,** Reid HW, Fabbro RL, Johnson KS, Batch BC, Olsen MK, Matsouaka RA, Sanders LL, Chung SY, Svetkey LP. Association between provider perspectives on race and racial healthcare disparities with patient perceptions of care and health outcomes. The 51st Annual Duke School of Medicine Research Symposium (formely known as AOA Day), August 2020, Durham, NC.

Nicholas Mayne – Duke Thoracic Surgery

*Mentor:* David Harpole, MD

*Program:* Clinical Research Study Program

*Project Title:* Outcomes of patients with lung neuroendocrine tumors

*Awards/Scholarships:* STS Looking to the Future Scholarship

*Publications:*


*Submitted:*


Presentations/Abstracts:

Karen Monuszko – Duke OB/GYN

Mentor: Laura Havrilesky, MD

Program: Clinical Research Study Program

Awards/Scholarships: Awarded 2nd place in the student clinical vignette category at the North Carolina Medical Society LEAD annual conference for a poster presentation of a case report. Awarded the Ovarian Cancer Research Fellowship (internal scholarship/stipend from Duke for a year of ovarian cancer research)

Publications:

Submitted:
Monuszko K, Malinzak M, Yang LZ, Niedzwiecki D, Fuchs H, Muh CR, Gingrich K, Lark R, Thompson EM. Image quality of EOS low-dose radiography is equivalent to conventional x-rays to assess ventriculoperitoneal shunt integrity.


Presentations/Abstracts:
Monuszko KA, Rodriguez I, Lorenzo A, Havrilesky LJ, Davidson BA. The power of P: Patient pain perceptions pre-operatively and inpatient pain medication requirements following surgery with gynecologic oncologists. Society for Gynecologic Oncology (SGO) Annual Meeting 2020. (Poster presentation) (Cancelled due to COVID)

Howell EP, Monuszko KA, and Davidson BA. Isolated intraluminal small bowel metastasis in low-risk endometrioid endometrial adenocarcinoma. North Carolina Medical Society (NCMS) LEAD Annual Conference 2019, Raleigh, NC. (Poster presentation)


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**Linda Phung – Study Away, University of California, San Francisco**

*Mentor:* Rebecca Sudore, MD

*Program:* Clinical Research Study Program

*Project Title:* English and Spanish speaking vulnerable older adults report unique barriers to advance care planning

*Awards/Scholarships:* Top scoring student first author and presenter abstract, AGS 2020 Annual Meeting

*Publications*

*In Progress:*

**Phung L,** Volow A, Barnes DE, Li B, Shirsat N, Sudore RL, English and Spanish speaking vulnerable older adults report unique barriers to advance care planning.

*Abstracts/Posters:*


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**Aadra Rajendran – Duke Rheumatology**

*Mentor:* Megan Clowse, MD

*Program:* Clinical Research Study Program

*Project Title:* Pregnancy outcomes in patients with interstitial lung disease

*Awards/Scholarships:* Rheumatology Research Foundation, Medical Student Research Preceptorship Award

*Publications*


*Submitted:*


*In progress:*

Giattino S, **Rajendran A,** Eudy A, Swaminathan A, Clowse M. Pregnancy outcomes in interstitial lung disease.
**Presentations/Abstracts:**

**Rajendran A., Eudy A., Balevic S., Clowse M.** The importance of pregnancy planning in lupus pregnancies. The 51st Annual Duke School of Medicine Research Symposium (formerly known as AOA Day), August 2020, Durham, NC.

**Rajendran A., Eudy A., Balevic S., Clowse M.** The importance of pregnancy planning in lupus pregnancies. Accepted for presentation at the American College of Rheumatology annual meeting, November 2020 (Virtual presentation)

Giattino S, **Rajendran A., Eudy A., Swaminathan A., Clowse M.** Pregnancy outcomes in interstitial lung disease. Accepted for presentation at the American College of Rheumatology annual meeting, November 2020 (Virtual presentation)

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**Emma Ryan – Duke OB/GYN**

**Mentor:** Laura Havrilesky, MD

**Program:** Clinical Research Study Program

**Project Titles:** The preferences of women at high genetic risk for ovarian cancer for attributes of prevention and screening.

**Awards/Scholarships:** Ovarian Cancer Research Fellowship

**Additional Coursework:**
- Medical Ethics
- Pandemic Course
- Physician Leadership Course

**Publications**

**In Progress:**

**Ryan E., Havrilesky L., Salinaro J., Davidson B.** Cost-effectiveness of venous thromboembolism prophylaxis during neoadjuvant chemotherapy for ovarian cancer.

**Ryan E., Varvoutis M., Kuller J., Dotters-Katz S.** Intrapartum and postpartum management of chorioamnionitis.

Gonzalez R, Kurtovic K, Habib A, **Ryan E., Foote J., Pandya D., Broadwater G., Havrilesky L.** A quality improvement initiative to reduce venous thromboembolism on a gynecologic oncology service.

**Presentations/Abstracts:**

**Ryan E., Havrilesky L., Salinaro J., Davidson B.** Cost-effectiveness of venous thromboembolism prophylaxis during neoadjuvant chemotherapy for ovarian cancer. The 51st Annual Duke School of Medicine Research Symposium (formerly known as AOA Day), August 2020, Durham, NC.


Zohaib Shaikh – Duke Pediatric Cardiology

**Mentor:** Jennifer Li, MD

**Program:** Clinical Research Study Program

**Project Title:** Development and assessment of a machine-learning algorithm for early prediction of clinical deterioration in pediatric inpatients

**Awards/Scholarships:** Duke Institute for Health Innovation Clinical Research & Innovation Scholarship

**Additional Coursework:**
- Completed the 100-hours of “Data Scientist with Python” career track online curriculum via DataCamp, including 26 individual online courses in Python.
- Completed the Design Health Program, which is an interdisciplinary project-based course that matched me with students from various programs across the university to find needs within structural cardiology procedures through ethnographic techniques, generate solution concepts, develop a scalable, marketable product, and generate an appropriate business model, ultimately culminating in the design of a transseptal crossing device for use in left heart catheterization procedures.

**Publications:** Pending

**Presentations/Abstracts:**


Stephanie Skove – Duke Internal Medicine

**Mentors:** Cara O’Brien, MD

**Program:** Clinical Research Study Program

**Project Title:** The standardization of rapid response systems to improve detection of patient deterioration

**Awards/Scholarships:** Duke Institute for Health Innovation Scholarship recipient

**Publications:** Pending

**Presentations/Abstracts:**

**Mentor:** Christopher Cox, MD  
**Program:** Clinical Research Study Program

**Project Title:** Defining best practice guidelines involvement in patients with advanced cardiopulmonary disease.

**Additional Coursework:**
- What Would a Good Physician Do (AKA Medical Ethics), Duke University School of Medicine, Durham, NC
- Medicine, Humanities, and the Arts (AKA Medical Humanities), Duke University School of Medicine, Durham, NC
- Responding to a National Pandemic, Duke University School of Medicine, Durham, NC

**Publications:**


Submitted:  
Smothers Z. Creating a comprehensive survey to describe medical student experiences with patient expressions of religion and spirituality. SAGE Research Methods 2020.


Presentations/Abstracts:  

Smothers Z, Toole J, Dotters-Katz S. Surveying students: Text vs email for a question of the day: Which do today’s medical students prefer? CREOG & APGO Annual Meeting 2020, Orlando, FL. (Oral presentation)
Smothers ZP, Grochowski C, Koenig HG. Medical student experiences of patients’ expression of religion and spirituality. The 51st Annual Duke School of Medicine Research Symposium (formely known as AOA Day), August 2020, Durham, NC.

**Jenny Wu – Study Away, Columbia University College of Physicians and Surgeons**

**Mentor:** Jason Wright, MD

**Program:** Clinical Research Study Program

**Project Title:**
- Quality care in mitigating health disparities in cervical cancer
- Less-radical surgery in early stage cervical cancer
- Perioperative outcomes and testing patterns for patients with COVID-19
- The impact of coronavirus pandemics in cancer patients

**Publications:**
**Submitted:**


**In Progress:**


**Presentations/Abstracts:**
Wu J, Huang Y, Wright JD. Quality care in mitigating insurance status disparities in cervical cancer. The 51st Annual Duke School of Medicine Research Symposium (formely known as AOA Day), August 2020, Durham, NC.

**Danquan “Sue” Zhang – Duke Nephrology**

**Mentor:** Christina Wyatt, MD

**Program:** Clinical Research Study Program

**Project Title:** Effect of Microbiome in Patient with Chronic HIV Infection on Progression of Kidney Disease