**ERIKA FRIEHLING, MD, MS**

**BIOGRAPHICAL INFORMATION**

Name: Erika Friehling, MD, MS

###  (Maiden name Erika Posner)

Business Address: UPMC Children's Hospital of Pittsburgh

 Division of Hematology/Oncology

 4401 Penn Avenue

 Pittsburgh, PA 15224

#### EDUCATION AND TRAINING

**Undergraduate**

New York University B.S. Neural Science major 1997 – 2001

New York, NY 2001 *cum laude*

**Graduate**

University of Virginia M.D. Doctor of Medicine 2002 – 2006

Charlottesville, VA 2006

**Post-Graduate**

University of Pittsburgh Pediatric Resident 2006 – 2009

UPMC Children's Hospital of Pittsburgh Director: Dr. Dena Hofkosh

Pittsburgh, PA

University of Pittsburgh Pediatric Chief Resident 2009 – 2010

UPMC Children's Hospital of Pittsburgh Director: Dr. Dena Hofkosh

Pittsburgh, PA

University of Pittsburgh Pediatric Hematology 2010 – 2013

UPMC Children's Hospital of Pittsburgh & Oncology Fellow

Pittsburgh, PA Director: Dr. A. Kim Ritchey

University of Pittsburgh Certificate in Medical Education 2014 – 2016

Institute for Clinical Research Education Director: Dr. Roseanne Granieri

Pittsburgh, PA

University of Pittsburgh Master of Science, Medical Education 2021

Institute for Clinical Research Education Director: Dr. Carla Spagnoletti

Pittsburgh, PA

#### FACULTY DEVELOPMENT

UPMC Physician Performance Management Series 2020

UPMC Physician Leadership Essentials Program 2022

ASPHO Mid-Career Mentoring Program 2023

AAMC Mid-Career Women Faculty Leadership Development Program 2023

#### APPOINTMENTS AND POSITIONS

Pediatric Chief Resident Department of Pediatrics 2009 – 2010

 UPMC Children's Hospital of Pittsburgh Pittsburgh, PA

Attending Physician Department of Pediatrics 2009 – 2010

 UPMC Children's Hospital of Pittsburgh

 Pittsburgh, PA

Assistant Professor University of Pittsburgh School of Medicine 2013 – 2020

 Pittsburgh, PA

Associate Fellowship Program Division of Hematology/Oncology 2016 – 2018

 Director UPMC Children's Hospital of Pittsburgh

 Pittsburgh, PA

Senior Associate Vice Chair University of Pittsburgh School of Medicine 2016 – present

 For Faculty Development Department of Pediatrics

 Pittsburgh, PA

Fellowship Program Director Division of Hematology/Oncology 2018 – present

 UPMC Children's Hospital of Pittsburgh

 Pittsburgh, PA

Associate Professor University of Pittsburgh School of Medicine 2020 – present

 Pittsburgh, PA

Director Office of Faculty Development 2020 – present

 Department of Pediatrics

 Pittsburgh, PA

**CERTIFICATION AND LICENSURE**

**Specialty Certification**

American Board of Pediatrics, Certified in General Pediatrics 2009

American Board of Pediatrics, Certified in Pediatric Hematology/Oncology 2015

**Medical and Professional Licensure**

Commonwealth of Pennsylvania 2009 – present

**Skills Certification**

Pediatric Advanced Life Support Instructor 2013 – 2020

Pediatric Advanced Life Support 2023 renewed

**MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES**

American Academy of Pediatrics (AAP) 2006 – present

American Society of Pediatric Hematology and Oncology (ASPHO) 2010 – present

American Society of Hematology (ASH) 2010 – present

American Society of Clinical Oncology (ASCO) 2010 – present

Association of Pediatric Program Directors (APPD) 2013 – present

Academic Pediatric Association (APA) 2014 – present

#### HONORS AND AWARDS

American Cancer Society Fellowship 2003

Association of Pathology Chairs Honor Society 2004

Alpha Omega Alpha 2005

Gold Humanism Honor Society 2005

Robert M. Blizzard Pediatric Scholar Award 2006

Jeffrey S. Farkas, MD Memorial Pediatric Intern Teaching Award 2007

Rossin Foundation Pediatric Resident Award 2008

Department of Pediatrics Junior Faculty Clinician Award 2013

*Awarded to a new faculty member based on potential as a clinician educator, the reward included $60,000 of salary support and $20,000 for CME*

American Society of Pediatric Hematology/Oncology Clinician Educator Award 2015

 *Awarded $10,000 from the national organization to a promising clinician educator.*

Patient Satisfaction Award, UPMC Children's Hospital of Pittsburgh 2016

Patient Satisfaction Award, UPMC Children's Hospital of Pittsburgh 2017

 *Award presented for Outstanding Achievement in Patient Satisfaction based on Press*

 *Ganey patient surveys.*

Academic Pediatric Association Educational Scholars Program 2015 – 2018

*National faculty development program focused on building skills in educational scholarship. Participants earn a Certificate of Excellence in Educational Scholarship*

APP Distinctive Physician Award Nominee, UPMC Children’s Hospital of Pittsburgh 2021

University of Pittsburgh School of Medicine, Academy of Medical Educators 2021

APP Distinctive Physician Award Nominee, UPMC Children’s Hospital of Pittsburgh 2022

UPMC Systemwide Physician APP Champion Award Nominee 2022

APP Distinctive Physician Award Nominee, UPMC Children’s Hospital of Pittsburgh 2023

Castle Connolly Top Doctor 2023

Castle Connolly Top Hispanic & Latino Doctor 2023

Thank Yinz, three recognitions from pediatric faculty colleagues 2023

**PUBLICATIONS**

**Original Peer Reviewed Articles**

1. Boerner JL, Gibson MA, Fox EM, **Posner ED**, Parsons SJ, Silva CM, Shupnik MA. Estrogen Negatively Regulates Epidermal Growth Factor (EGF)-Mediated Signal Transducer and Activator of Transcription 5 Signaling in Human EGF Family Receptor Overexpressing Breast Cancer Cells. *Mol Endocrinol*. 2005; 19: 2660-2670.
2. Ou Z, Sherer M, Casey J, Bakos HA, Vitullo K, Hu J, **Friehling E**, Gollin SM, Surti U, Yatsenko SA. The Genomic Landscape of *PAX5*, *IKZF1* and *CDKN2A/B* Alterations in B-Cell Precursor Acute Lymphoblastic Leukemia. *Cytogenet Genome Res*. 2016; 150(3-4): 242-252.
3. Ahmed IA, Farooqi MS, Vander Lugt MT, Boklan J, Rose M, **Friehling E**, Triplett B, Lieuw K, Saldana BD, Smith CM, Schwartz JR, Goyal RK. Outcomes of Hematopoietic Cell Transplantation in Patients with Germline SAMD9/SAMD9L Mutations. *Biol Blood Marrow Transplant*. 2019; 25(11): 2186-2196.
4. Close AG, Jones KA, Landowski A, Switzer GE, Kazmerski TM, Miller E, **Friehling E**. Current Practices in Menstrual Management in Adolescents with Cancer: A National Survey of Pediatric Oncology Providers. *Pediatr Blood Cancer*. 2019; 66(12): e27961.
5. Close AG, Ghuman A, **Friehling E**, Hamm M, Frederick NN, Miller E, Kazmerski TM. Experiences with Menses and Menstrual Suppression of Young Women with a History of Cancer. *J Adolesc Young Adult Oncol*. 2020; 9(1): 23-29.
6. McCormick M, **Friehling E**, Kalpatthi R, Siripong N, Smith K. Cost-Effectiveness of Levofloxacin Prophylaxis Against Bacterial Infection in Pediatric Patients with Acute Myeloid Leukemia. *Pediatr Blood Cancer*. 2020; 67(10): e28469.
7. Kazmerski T, **Friehling E**, Sharp E, Muzumdar I, Corber-Hincapie M, Dewar S, Nowalk A, Srinath A, Muzumdar H. Pediatric Faculty and Trainee Attitudes Toward the COVID-19 Pandemic. *Hosp Pediatr.* 2021; 11(2): 198-207.
8. McCormick M, Lapinski J, **Friehling E**, Smith K. Pre-Medication Prior to PEG-asparaginase is Cost-Effective in Pediatric Patients with Acute Lymphoblastic Leukemia. *Pediatr Blood Cancer*. 2021;68(8): e29051.
9. Sharp EA, Pelletier JH, **Friehling E**, Muzumdar H, Miller B, Kazmerski TM. Gender, Parenting Status, and the Academic Productivity of Pediatricians During the COVID-19 Pandemic. *Hosp Pediatr.* 2022;12(11):e379-e388.
10. Afify Z, Orjuela-Grimm M, Smith CM, Dalal M, Ford JB, Pillai P, Robles JM, Reddy S, McCormack S, Ehrhardt MJ, Ureda T, Alperstein W, Edington H, Miller TP, Rubinstein JD, Kavanaugh M, Bukowinski AJ, **Friehling E**, Rivers JM, Chisholm KM, Marks LJ, Mason CC. Burkitt lymphoma after solid organ transplant: treatment and outcomes in the pediatric PTLD collaborative. *Br J Haematol*. 2023; 200(3):297-305.
11. Afify Z, Taj M, Srivatsa K, Miller TP, Edington H, Dalal M, Robles JM, Ford JB, Ehrhardt MJ, Ureda T, Rubinstein JD, McCormack S, Rivers JM, Chisholm KM, Kavanaugh M, Bukowinski AJ, **Friehling E**, Ford M, Reddy S, Orjuela-Grimm M, Marks LJ, Smith CM, Mason CC. Multicenter study of Pediatric Epstein Barr Virus Negative Monomorphic Post Solid Organ Transplant Lymphoproliferative Disorders. *Cancer*. 2023; 129(5): 780-789.
12. Gunsaulus M, Alsaied T, Tersak JM, **Friehling E**, Rose-Felker K. Abnormal Global Longitudinal Strain During Anthracycline Treatment Predicts Future Cardiotoxicity in Children. *Pediatr Cardiol*. 2023 Aug 22.

**Other Peer Reviewed Publications (case reports and reviews)**

1. O’Halloran K, Ritchey AK, Djokic M, **Friehling E**. Transient Juvenile Myelomonocytic Leukemia in the Setting of PTPN11 Mutation and Noonan Syndrome with Secondary Development of Monosomy 7. *Pediatr Blood Cancer*. 2017; 64(7): e26408.
2. Trauernicht E, Bharil S, Panko L, **Friehling E**. Fever, Neck Pain, and Back Pain in a 16-year-old Boy. *Pediatr Review*. 2018; 39(9): 468-469.
3. Stanley K, **Friehling E**, Ranganathan S, Mazariegos G, McAllister-Lucas L, Sindhi R. Post-Transplant Lymphoproliferative Disease (PTLD) in Pediatric Intestinal Transplant Recipients. *Pediatr Transplant*. 2018; 22(5): e13211.
4. Epperly R, Ozolek J, Soltys K, Cohen D, Goyal R, **Friehling E**. Treatment of Pediatric Plasma Cell Myeloma Type Post-Transplant Lymphoproliferative Disorder with Modern Risk-Directed Therapy. *Pediatr Blood Cancer.* 2018; 65(10): e27283.
5. Stanley K, **Friehling E**, Davis A, Ranganathan S. SDH-Deficient GIST with SDHC Germline Mutation and Bilateral Renal and Neck Cysts. *Pediatr Dev Pathol*. 2019; 22(3): 265-268.
6. Devine K, **Friehling E**. Index of Suspicion: Dysphagia in an Adolescent with Iron Deficiency Anemia. *Pediatr Rev*. 2021; 42(9): 518-521.
7. McCormick M, **Friehling E**, Smith K. Reply to: Comment on: "Premedication prior to PEG-asparaginase is cost effective in pediatric patients with acute lymphoblastic leukemia". Pediatr Blood Cancer. 2022 Nov;69(11):e29694.
8. Daley J, Halligan K, Howrie D, Salgado CM, Superdock A, **Friehling E,** Bailey KM. Successful Treatment of Patient with Ewing Sarcoma in the Setting of Inherited Cholestatic Liver Disease. *J Pediatr Hematol Oncol*. 2023; 45(5): e621-e623.
9. Barrett TC, Manole MD, **Friehling E**, McCormick A. Rapidly Enlarging Vascular Tumor in a 4-Month-Old Infant. *Ann Emerg Med*. 2023; 82(4): e163-e164.

**National Workshops**

1. **Friehling E**, Jubran R, Venkatramani R, Young G. Art of Presentation: Creating Effective Poster Presentations. Workshop presented at: American Society of Pediatric Hematology/Oncology Annual Meeting. May 2015. Phoenix, AZ.
2. Bone M, **Friehling E**, Gaug A, Guidice E, Rotandi C, McBride A, McNamara M, Shorter C**.** Skill Building: Time Management. Workshop presented at: Association of Pediatric Program Directors Fall Meeting. October 2018. Philadelphia, PA.
3. Acosta A, Altman-Gans H, Bone M, Chawla E, **Friehling E**, Gifford K, Guidice E, McNamara M, Ramundo M, Rose J, Turner T, Waggoner-Fountain L, Wolfe A, Wroblewski M. Professional Development 101: Getting to Where You Want to Be. Association of Pediatric Program Directors Annual Spring Meeting. March 2019. New Orleans, LA.
4. Bone M, **Friehling E.** Innovative Design Thinking Approach to Faculty Development. APPD Forum for Fellowship Directors. May 2019. Baltimore, MD.
5. Sharp E, Mack M, **Friehling E**, Watson K, Szymusiak J, Miller B, Blankenburgh B, Browning W, Herndon A, Weisgerber M, Beck J. On My Own: Pretending You’re Beside Me: Supporting Resident and Fellow Autonomy in Pediatrics. Workshop presented at: Association of Pediatric Program Directors Spring Meeting. Spring 2022. San Diego, CA.
6. Sharp E, Leyens K, Blankenburgh B, Miller B, Polak C, Szymusiak J, Browning W, Herndon A, **Friehling E**, Watson K. Here I Go Again On My Own: Putting graduated Autonomy Into Practice. Workshop presented at: Association of Pediatric Program Directors Spring Meeting. Spring 2023. Atlanta, GA.
7. **Friehling E,** Spears N, Sharp E, Allesi L, Rose J. Short Necessary Impactful Practical: Using Snippets to Bring Faculty Development to Busy Clinicians. Workshop presented at: Association of Pediatric Program Directors Forum for Fellowship Leaders. Spring 2023. Virtual.

**Regional Workshops**

1. **Friehling E**, Leyens K, Sharp E, Szymusiak J, Spears N. Short Necessary Impactful Practical: Using Snippets to Bring Faculty Development to Busy Clinicians. Workshop presented at: Rita M. Patel UPMC GME Leadership Conference. February 2023.

**Book Chapters**

1. Ritchey AK, **Friehling E**. “Principles of Diagnosis” in *Nelson Textbook of Pediatrics*, Editors: Robert Kliegman, Bonita Stanton, Joseph St. Geme, and Nina Schor. 20th edition. Philadelphia: Elsevier, 2013.
2. Bleyer A, Ritchey AK, **Friehling E**. “Principles of Treatment” in *Nelson Textbook of Pediatrics*, Editors: Robert Kliegman, Bonita Stanton, Joseph St. Geme, and Nina Schor. 20th edition. Philadelphia: Elsevier, 2013.
3. Tubergen D, Bleyer A, Ritchey AK, **Friehling E**. “The Leukemias” in *Nelson Textbook of Pediatrics*, Editors: Robert Kliegman, Bonita Stanton, Joseph St. Geme, and Nina Schor. 20th edition. Philadelphia: Elsevier, 2013.
4. Ritchey AK, **Friehling E**. “Principles of Cancer Diagnosis” in *Nelson Textbook of Pediatrics*, Editors: Robert Kliegman, Bonita Stanton, Joseph St. Geme, and Nina Schor. 21st edition. Philadelphia: Elsevier, 2019.
5. Bleyer A, Ritchey AK, **Friehling E**. “Principles of Cancer Treatment” in *Nelson Textbook of Pediatrics*, Editors: Robert Kliegman, Bonita Stanton, Joseph St. Geme, and Nina Schor. 21st edition. Philadelphia: Elsevier, 2019.
6. Tubergen D, Bleyer A, Ritchey AK, **Friehling E**. “The Leukemias” in *Nelson Textbook of Pediatrics*, Editors: Robert Kliegman, Bonita Stanton, Joseph St. Geme, and Nina Schor. 21st edition. Philadelphia: Elsevier, 2019.
7. Gassei K, Valli-Pulaski H, Close A, **Friehling E**, Chaudhry R, Fox P, Cannon G, Jaffe T, Meacham L, Orwig K. “Male Fertility Preservation – Current Options and Advances in Research” in *Oncofertility Research and Practice: A Multidisciplinary Approach.* Editor: Teresa K. Woodruff. Cham: Springer Nature, 2019.

**Published Abstracts**

1. Binder DR, **Posner ED**, Hill DL. Transcription of ENaC Subunits in the Developing Rat [abstract]. In: *Chem Senses*. 2002; Volume 27(7). Meeting of the Association for Chemoreception Sciences. April 2002. Sarasota, FL.
2. Silva CM, Boerner JL, **Posner ED**, Gibson MA, Laughlin KK, Parsons SJ, Shupnik MA. STAT5: Common Mediator of Estrogen and EGF Effects in Breast Cancer Cell Models [abstract]. In: *Proc Amer Assoc Cancer Res*. 2004; Volume 45. American Association of Cancer Research Meeting. March 2004. Orlando, FL.
3. Fouquerel E, Yu Z, **Friehling E**, Li J, Fang Q, Schamus S, Wang X-H, Kublo L, Lan L, Brown AR, Sobol RW. BER Crosstalk to DSB Repair Pathways [abstract]. In: *Environ Mol Mutagen*. 2013; Volume 54(S1). Environmental Mutagenesis and Genomics Society Annual Meeting. September 2013. Monterey, California.
4. Stanley K, **Friehling E**. Carney-Stratakis Syndrome: A Rare Case in an Adolescent with Bilateral Renal Cysts. [abstract]. In: *Pediatr Blood Cancer*. 2017; 64 (Supplement 1). American Society of Pediatric Hematology/Oncology Annual Meeting. April 2017. Montreal, Canada.
5. Stanley K, **Friehling E**. Plummer-Vinson Syndrome: A Rare Case in an Adolescent. [abstract]. In: *Pediatr Blood Cancer*. 2017; 64 (Supplement 1). American Society of Pediatric Hematology/Oncology Annual Meeting. April 2017. Montreal, Canada.
6. Epperly R, **Friehling E**. Treatment of Pediatric Plasma Cell Myeloma Type Post-Transplant Lymphoproliferative Disorder with Modern Risk-Directed Therapy Including Autologous Stem Cell Transplant. [abstract]. In: *Pediatr Blood Cancer*. 2017; 64(Supplement 1). American Society of Pediatric Hematology/Oncology Annual Meeting. April 2017. Montreal, Canada.
7. **Friehling E**, Proud L, Nowalk A. Longitudinal Subspecialty Clinic for Pediatric Residents: Enhancing Preparedness for Fellowship Through Continuity and Mentorship. [abstract]. In: *Pediatr Blood Cancer*. 2017; 64(Supplement 1). American Society of Pediatric Hematology/Oncology Annual Meeting. April 2017. Montreal, Canada. *Selected as one of the highest rated abstracts and featured on the poster tour.*
8. Ahmed I, Schwartz J, **Friehling E**, Vander Lugt M, Klco J, Triplett B, Goyal R. Outcomes of Hematopoietic Cell Transplantation in Patients with Germline SAMD9/SAMD9L Mutations. [abstract]. In: *Pediatr Blood Cancer*. 2018; 65(Supplement 1). Pediatric Blood and Marrow Transplant Consortium Meeting. May 2018. Pittsburgh, PA.
9. Stanley K, Malek M, **Friehling E**. PET- Probe Guided Surgical Resection of Relapsed Post-Transplant Lymphoproliferative Disorder. [abstract]. In: *Br J Haematol*. 2018; 182(Supplement 1). 6th International Symposium on Childhood, Adolescent, and Young Adult Non-Hodgkin Lymphoma. September 2018. Rotterdam, Netherlands.
10. Close A, Ghuman A, Kazmerski T, Fredrick N, Miller E, **Friehling E**. Experiences of Young Women with Cancer Regarding Menses/Menstrual Suppression During Chemotherapy. [abstract]. In: *Pediatr Blood Cancer*. 2019; 66(Supplement 2). American Society of Pediatric Hematology/Oncology Annual Meeting. May 2019. New Orleans, LA.
11. Close A, Munyoki S, **Friehling E**, Joolharzadeh P, Menke M, Orwig K, Valli-Pulaski H. Sperm Cryopreservation Prior to Gonadotoxic Therapies in Adolescent and Young Adults with Cancer. [abstract]. In: *Pediatr Blood Cancer*. 2019; 66(Supplement 2). American Society of Pediatric Hematology/Oncology Annual Meeting. May 2019. New Orleans, LA.
12. Halligan K, Miyashita Y, **Friehling E**. Gene Negative Atypical HUS in a Patient with Metastatic Wilms Tumor. [abstract]. In: *Pediatr Blood Cancer*. 2020; 67 (Supplement 2). American Society of Pediatric Hematology/Oncology Annual Meeting. May 2020. *Accepted, however the conference was canceled secondary to the COVID19 pandemic.*
13. McCormick M, Lapinski J, **Friehling E**, Smith K. Premedication Prior to Peg-Asparaginase is Cost-Effective for Pediatric Leukemia Patients. [abstract]. In: *Blood*. 2020; 136 (Supplement 1). American Society of Hematology Annual Meeting. December 2020. *Virtual conference secondary to the COVID19 pandemic.*
14. Daley J, Halligan K, **Friehling E**, Howrie D, Bailey K. Successful Treatment of Ewing Sarcoma in the Setting of Inherited Cholestatic Liver Disease. [abstract]. In: *Pediatr Blood Cancer*. 2022; 69 (Supplement 2). American Society of Pediatric Hematology/Oncology Annual Meeting. May 2022.
15. Afify Z, Taj M, Srivatsa K, Miller TP, Edington H, Dalal M, Robles JM, Ford JB, Ehrhardt MJ, Ureda T, Rubinstein JD, McCormack S, Rivers JM, Chisholm KM, Kavanaugh M, Bukowinski AJ, **Friehling E**, Marks LJ, Smith CM, Mason CC. Pediatric EBV-negative monomorphic post–solid organ transplant lymphoproliferative disorders: Characteristics, treatment, and outcome from 11 pediatric academic centers. [abstract]. In: *J Clin Oncol.* 2022; 40 (Supplement 16; abstr 10012). American Society of Clinical Oncology Annual Meeting. June 2022.
16. Afify Z, Taj M, Srivatsa K, Miller TP, Edington H, Dalal M, Robles JM, Ford JB, Ehrhardt MJ, Ureda T, Rubinstein JD, McCormack S, Rivers JM, Chisholm KM, Kavanaugh M, Bukowinski AJ, **Friehling E**, Alperstein W, Pillai P, Ford M, Reddy S, Marks LJ, Smith CM, Mason CC, Orjuela-Grimm, M. Success Inauguration of the Pediatric PTLD Collaborative (PPC) Provides an Excellent Platform for PTLD Registry and Prospective Studies. [abstract]. In: *Pediatr Blood Cancer*. 2023; International Society of Paediatric Oncology Meeting. October 2023. Ottawa, Canada.

**Oral Abstract Presentations**

1. Girvin A, Vander Lugt M, **Friehling E**. Changing Patterns of Care for Immune Thrombocytopenia. UPMC Children’s Hospital of Pittsburgh Quality Research Week. October 2015. Pittsburgh, PA.
2. Yatsenko SA, Ou Z, Sebastian J, Arnold GL, **Friehling E**, Madan-Khetarpal S, El-Gharbawy A, Hu J, Surti U, Bellissimo D, Rajkovic A. Clinical Significance of Single Chromosome Regions of Homozygosity Detected by Microarray: uniparental disomy, genomic imprinting, autosomal recessive mutations, mitotic recombination, chromosomal aberrations and mosaicism. American College of Medical Genetics Annual Clinical Genetics Meeting. March 2016. Tampa, FL.
3. Goyal R, Ahmed I, Boklan J, Rose M, **Friehling E**, Vander Lugt M, Triplett B, Lieuw K, Saldana B, Smith C, Klco J, Schwartz J. Outcomes of Hematopoietic Cell Transplantation in Patients with Germline SAMD9/SAMD9L Mutations. American Society of Hematology Scientific Workshop on Inherited Hematopoietic Malignancies. November 2018. San Diego, CA.
4. McCormick M, **Friehling E**, Kalpatthi R, Smith K. Levofloxacin Prophylaxis is Effective and Cost-Effective in Pediatric Patients with Acute Myeloid Leukemia. American Society of Hematology Annual Meeting. December 2019. Orlando, FL
5. Sharp E, Kazmerski TM, **Friehling E**, Muzumdar I, Trauernict E, Miller B, Nowalk A, Srinath A, Muzumdar H. How Can We Help? Perceptions of Pediatric Faculty & Trainees in the COVID-19 Pandemic. Rita M. Patel Leadership Conference. February 2021.
6. Sharp E, Kazmerski TM, **Friehling E**, Miller B, Trauernict E, Nowalk A, Srinath A, Muzumdar H. Adaptation: Fellowship Training Over the Course of the COVID-19 Pandemic. Association of Pediatric Program Directors Conference. March 2021. *Selected as a top rated abstract.*
7. Sharp EA, Pelletier JH, **Friehling E**, Muzumdar H, Miller B, Kazmerski TM. Female Physician Parents were Ten Times More Likely to Report Decreased Academic Productivity during the COVID-19 Pandemic. Pediatric Academic Society. April 2022. Denver, CO. *Selected for the Academic Pediatric Association’s Fellow Research Award.*
8. Sharp EA, Pelletier JH, **Friehling E**, Muzumdar H, Miller B, Kazmerski TM. Gender, Parenting Status, and Academic Productivity of Pediatricians During the COVID-19 Pandemic. Pediatric Hospital Medicine Conference. July 2022. Orlando, FL.

**Poster Abstract Presentations**

1. Boerner JL, Rowe DF, **Posner ED**, Laughlin KK, Biscardi JS, Parsons SJ, Shupnik MA, Silva CM. Interaction between Signal Transducers (STATs) and Estrogen Receptor Signaling in Breast Cancer Cells. Endocrine Society Annual Meeting. June 2003. Philadelphia, PA.
2. **Friehling E**, Fouquerel E, Murai J, Pommier Y, Sobol RW. Exploring a Novel Mechanism of PARP Inhibition. University of Pittsburgh Cancer Institute Research Retreat. June 2013. Pittsburgh, PA.
3. Proud L, **Friehling E**. Preparing Residents for Fellowship by Optimizing Mentorship Through Longitudinal Patient Experiences. Pediatric Educational Excellence Across the Continuum (PEEAC) Meeting. September 2015. Atlanta, GA.
4. Ou Z, Sherer M, Casey J, Bakos H, Vitullo K, Hu J, **Friehling E**, Surti U, Yatsenko S. The Genomic Landscape of *PAX5*, *IKZF1*, and *CDKN2A/B* Alterations in B-Cell Precursor Acute Lymphoblastic Leukemia. American College of Medical Genetics Annual Clinical Genetics Meeting. March 2016. Tampa, FL.
5. Rabold E, Tarchichi T, **Friehling E**, Zitelli B, Mieczkowski A. A Diagnosis of Leukemia in Patients on a Hospitalist Medicine Service at a Quaternary Care Hospital. ROAR Research Day at Children’s Hospital of Pittsburgh of UPMC. June 2016. Pittsburgh, PA.
6. Rabold E, Tarchichi T, **Friehling E**, Zitelli B, Mieczkowski A. A Diagnosis of Leukemia in Patients on a Hospitalist Medicine Service at a Quaternary Care Hospital. Annual Rangos Research Symposium. June 2016. Pittsburgh, PA.
7. **Friehling E**, Proud L, Nowalk A. Longitudinal Subspecialty Clinic for Pediatric Residents: Enhancing Preparedness for Fellowship Through Continuity and Mentorship. University of Pittsburgh School of Medicine Annual MedEd Day. September 2017. Pittsburgh, PA.
8. **Friehling E**, Proud L, Nowalk A. Longitudinal Subspecialty Clinic for Pediatric Residents: Enhancing Preparedness for Fellowship Through Continuity and Mentorship. University of Pittsburgh School of Medicine Annual GME Leadership Conference. February 2018. Pittsburgh, PA.
9. Sharp E, Kazmerski T, **Friehling E**, Muzumdar I, Corber-Hincapie M, Dewar S, Nowalk A, Srinath A, Muzumdar H. Pediatric Fellowship Training During the COVID-19 Pandemic: A Survey of Program Directors. University of Pittsburgh School of Medicine Annual MedEd Day. September 2020. Pittsburgh, PA.
10. Trauernict E, Miller B, Kazmerski TM, **Friehling E**, Muzumdar I, Nowalk A, Srinath A, Muzumdar H, Sharp E. #ThisisOurShot: Perceptions of the COVID-19 Vaccine. Rita M. Patel Leadership Conference. February 2021.
11. Verdoni AM, Bullock G, **Friehling E**, Meade J, Yatsenko SA. B-cell Acute Lymphoblastic Leukemia with iAMP21 in a Patient with Down Syndrome Due to a Constitutional Isodicentric Chromosome 21. American College of Medical Genetics Meeting. April 2021.
12. Trauernict E, Miller B, Kazmerski TM, **Friehling E**, Muzumdar I, Nowalk A, Srinath A, Muzumdar H, Sharp E. #ThisisOurShot: Perceptions of the COVID-19 Vaccine. Pediatric Academic Society Virtual Meeting. May 2021.
13. Sharp E, Kazmerski TM, **Friehling E**, Muzumdar I, Trauernict E, Miller B, Nowalk A, Srinath A, Muzumdar H. Pediatric Faculty & Trainees in the COVID-19 Pandemic: Attitudes, Concerns, and Interventions. Pediatric Academic Society Virtual Meeting. May 2021.

**PROFESSIONAL ACTIVITIES**

**TEACHING ACTIVITIES**

**Educational Leadership**

Educational Chief Fellow, Pediatric Hematology/Oncology 2012

Administrative Chief Fellow, Pediatric Hematology/Oncology 2013

Co-Director, Pediatric Residency Program Career Focused Curriculum 2013 – present

Director of Fellow Education, Pediatric Hematology/Oncology 2014 – 2016

Director of Resident Education, Pediatric Hematology/Oncology 2014 – 2019

Course Director, Pediatric Hematology/Oncology Fellow Core Lecture Series 2014 – 2019

Course Director, Pediatric Hematology/Oncology Journal Club 2016 – 2019

Course Director, Pediatric Hematology/Oncology Weekly Educational Conference 2016 – 2019

Director, Pediatric Hematology/Oncology Multi-Disciplinary Tumor Board 2016 – 2021

Co-Organizer, Department of Pediatrics Faculty Development Series 2016 – present

Member, Leaders in Education Across Pediatrics 2019 – 2020

Director, Office of Faculty Development 2020 – present

Co-Course Director, Professional Development Course, ICRE 2020 – present

Member, Pediatric Education Across the Continuum Steering Committee 2020 – present

Member, Grand Rounds Committee 2020 – present

Member, ICRE Medical Education Curriculum Committee 2021 – present

Member, Dena Hofkosh Symposium Steering Committee 2021 – present

Member, MedEd Scholarship Day Planning Committee 2022 – present

Course Director, MentorSHIP, Faculty Development Program 2022 – present

Co-Course Director, Making the Most of Mentoring Course, ICRE 2023 – present

Member, ICRE Distinguished Alumnus Award subcommittee 2023 – present

Member, ACGME Appeals Panel for Pediatric Hematology/Oncology 2023 – present

Member, American Board of Pediatrics Milestone/EPA Mapping Project, Peds Heme/Onc 2023

**National Teaching**

Contributor, American Society of Pediatric Hematology/Oncology Case Quiz 2016 – present

Develop ~1-3 clinical cases per year for a national audience

Moderator, ASPHO Maintenance of Certification Session, ASPHO Annual Meeting 2019

**Faculty, University of Pittsburgh School of Medicine**

Module Designer and Facilitator, ICRE Mini MedEd Course: Effective Mentorship 2022

 Faculty development course offered through the ICRE.

 Each module is 8 hours total; 8-10 faculty participants per module

Presenter, Effective Mentorship 2023

 FOCUS, UPSOM, Clinician Educator Program

**Pediatric Faculty, University of Pittsburgh School of Medicine**

Lecturer, Department of Pediatrics Faculty Development Series, 25-30 faculty members

 “Milestones and the Clinical Competency Committee” 2014

 “Turning Your Educational Work into Scholarship” 2015

 “Making the Most of Mentoring for Career Success” 2016

 “Being a Great Mentor” 2016

 “CV Workshop for Clinician Educators” 2017

 New Faculty Orientation: yearly recurring sessions 2017 – present

 topics include mentoring, educational scholarship, and career planning

Facilitator, Department of Pediatrics Leadership Excellence Series, 15 division directors

 "Career Planning and Mentoring: Guiding our faculty towards promotion." 2021

 "Faculty Professional Development - An essential tool kit." 2021

 “Finer Points of Letter of Support Writing for Leaders” 2022

Lecturer, Department of Pediatrics Educational Champions, 8 faculty members

 “Educational Scholarship” 2016

Lecturer, Division of Pediatric Hospitalist Medicine

 “Mentoring, Promotion, and Career Development” 2019

Lecturer, Division of Pediatric Allergy and Immunology

 “Mentoring, Promotion, and Career Development” 2020

 “Mentoring and Career Development” 2021

Lecturer, Pediatric Fellowship Program Directors

 “Academic Tweetorial” 2020

Lecturer, Division of Pediatric Gastroenterology

 “Making the Most of Mentoring for Career Success” 2019

 “Academic Tweetorial” 2020

 “Recipe for Inpatient Teaching Success” 2022

Lecturer, Division of Medical Genetics

 “Mentoring, Promotion, and Career Development” 2020

Lecturer, Division of Pediatric Cardiology

 “Academic Tweetorial” 2020

Lecturer, Division of Pediatric Emergency Medicine

 “Mentoring and Career Development” 2021

Lecturer, Division of Adolescent and Young Adult Medicine

 “Mentoring and Career Development” 2021

Lecturer, Division of Neonatology

 “Recipe for Inpatient Teaching Success” 2022

Lecturer, Division of Pediatric Rehabilitation Medicine

 “Career Development and Promotion” 2022

Facilitator/Lecturer, MentorSHIP Faculty Development Program 2022 – present

Yearly faculty development course offered through the Department of Pediatrics. Each module is 8-10 hours total; 12 faculty participants per cohort

Lecturer, Division of Pediatric Emergency Medicine

 “Pediatric Heme/Onc Pearls” 2023

 “Career Development and Planning” 2023

**Pediatric Hematology/Oncology Division, University of Pittsburgh School of Medicine**

Presenter, Division of Pediatric Hematology/Oncology Journal Club, 25-30 attendees

 “Thrombotic Complications in Childhood Acute Lymphoblastic Leukemia” 2010

 “Predictors of Survival After Relapse in Neuroblastoma” 2011

 “Adrenal Insufficiency in Critically Ill Pediatric Oncology Patients” 2012

 “Role of Bisphosphonates as Therapy for Osteonecrosis in Leukemic Patients” 2013

 “Use of Dexrazoxane with Anthracyclines” 2016

 “TPMT Testing in Pediatric Oncology” 2016

 “Outpatient Management of Fever and Neutropenia” 2017

 “Allergic Reactions to Asparaginase” 2017

Lecturer, Division of Pediatric Hematology/Oncology Educational Conference, 25-30 attendees

 “Disorders of Hemostasis” 2010

 “Bone Marrow Failure Syndromes” 2011

 “Giving Effective Feedback” 2011

 “Improving Handoffs” 2012

 “ALDH, DNA Damage, and DNA Repair” 2012

 “Ph-like ALL” 2015

 “Fertility Preservation in Pediatric Oncology” 2017

Lecturer, Division of Pediatric Hematology/Oncology Faculty Development, 10-20 attendees

 “Time Management” 2020

 “Learning Objectives” 2020

 “Interactive Teaching Techniques” 2020

 “Effective PowerPoint Tips” 2020

 “The Flipped Classroom” 2021

 “Inpatient Teaching” 2021

Facilitator, Division-wide Mock Codes 2017 – 2019

**Pediatric Fellows, UPMC Children's Hospital of Pittsburgh**

Preceptor, Outpatient Pediatric Hematology/Oncology Clinic 2013 – present

Attending, Inpatient Pediatric Hematology/Oncology 2013 – present

Lecturer, Pediatric Hematology/Oncology Fellow Core Lecture Series

 *Topics on Evidence Based Medicine*

 “Cost Analysis” 2014

 “Non-Inferiority Trials” 2015

 “Odds Ratios and Hazard Ratios” 2015

 “Survival Analysis” 2015

 “Likelihood Ratios” 2016

 “Meta-Analysis and Systemic Reviews” 2016

 “Non-Inferiority, Equivalence, and Superiority Trials” 2017

 “Risk Analysis” 2017

 *Topics on Pediatric Oncology* (yearly recurring lecture)

 “Acute Lymphoblastic Leukemia” 2017 – present

 “Navigating the Literature and the COG Website” 2017 – present

Lecturer, Department of Pediatrics Unified Fellow Course, 15 fellows per session

 “Making Mentoring Work for You” (yearly recurring lecture) 2014 – present

 “Responsible Authorship” 2017

 “CV and Educator Portfolios” 2017, 2019

Lecturer, NICU Fellow Lecture Series, 5-10 fellows per session

 “Making the Most of Mentoring” 2019

 “CV Workshop” 2019

Lecturer, General Academic Pediatrics Fellow Lecture Series, 7 fellows

 “Outlook Tips and Tricks” 2020

Lecturer, Department of Pediatrics Fellow Retreat, ~20 fellows per session

 “Making Mentoring Work for You” (yearly recurring lecture) 2019 – present

 “CV Workshop” 2021

 “Mentorship as Junior Faculty: A Panel” 2021

**Pediatric Residents, UPMC Children's Hospital of Pittsburgh**

Facilitator, Pediatric Mock Codes, 10 pediatric residents per monthly session 2009 – 2010

Preceptor, Outpatient Elective in Hematology/Oncology, 25-30 residents per year 2013 – present

Attending, Inpatient Pediatric Hematology/ Oncology, 30 residents per year 2013 – present

Lecturer, Pediatric Residency Noon Conference, 30 residents, multiple sessions 2013 – present

 *Topics on Career Development*

 Faculty panel on fellowship research opportunities 2013 Faculty panel on applying to fellowship 2014

 “Making the Most of Mentoring” 2014 – 2016

 “CV Workshop” 2014 – 2017

 “Generational Differences in Mentoring” 2015

 “Wellness and Resilience” 2015

 “How Outlook Changed My Life” 2016 “Academic Career Paths” 2016

 “Cover Letter and Personal Statement” 2017

 “Career Paths in Medical Education” 2018

 “Mindful Career Planning” 2019

 “Interview Skills” 2019

 “Career as a Clinical Educator” 2022

“Cover Letter and Personal Statement” 2022

*Topics on Hematology/Oncology*

 “Jeopardy for Pediatric Residents” 2010

 “Hemolytic Anemia” 2014

 “Thrombosis” 2014

 “Hematologic Emergencies” 2014 – 2017

 “Transfusion Basics” 2015

 “Transfusion Reactions” 2015

 “Leukemia and Lymphoma” (yearly recurring lecture) 2018 – present

Preceptor, Subspecialty Continuity Clinic, 1-2 residents per year, weekly clinic 2014 – present

Facilitator, Death and Dying Workshop, 25 second year residents 2014, 2017, 2018

Deputy Facilitator, Chair Report, 10 senior residents, weekly case conference 2017 – 2019

*Asked by the Chair of Pediatrics to facilitate this conference when he is not available*

Presenter, Intern Orientation: Mentoring, yearly sessions 2017 – present

**Graduate Students and Trainees, University of Pittsburgh School of Medicine**

Presenter, University of Pittsburgh Cancer Institute Molecular and Cellular Biology Group

 “A Novel Mechanism of PARP Inhibition and its Role in Base Excision Repair” 2012

 “ATR Inhibition in Ovarian Cancer Cell Lines” 2013

Presenter, Medical Education Journal Club, Institute for Clinical Research Education

 “Meaningful Use of Learning Goals” 2016

Lecturer, Department of Pathology, Hematopathology Fellows

 “Acute Lymphoblastic Leukemia” (yearly recurring lecture) 2016 – present

Lecturer, Professional Development Course, Institute for Clinical Research Education

 “CV and Educator Portfolio” (yearly recurring lecture) 2017 – present

 “Job Search and Negotiation” (yearly recurring lecture) 2017 – present

**Medical Students, University of Pittsburgh School of Medicine**

Preceptor, Advanced Physical Exam Course, 2 medical students per year 2009 – 2014

Attending Physician, Pediatric Clerkship, 6-8 medical students per year 2013 – present

Preceptor, Hematology/Oncology Elective, 5-8 medical students per year 2013 – present

Preceptor, Outpatient Hematology/Oncology, 10 medical students per year 2013 – present

**Advanced Practice Providers and Nursing Staff, UPMC Children’s Hospital of Pittsburgh**

Lecturer, Pediatric Hematology/Oncology Nursing Educational Conference

 “Leukemia” 2017, 2018

 “Transfusions and Transfusion Reactions” 2017, 2018

Lecturer, APP Fellowship Advisory Committee Meeting

 “Learning Objectives” 2020

 “Interactive Teaching Techniques” 2020

 “Effective PowerPoint Tips” 2020

 “Effective Questioning” 2021

 “Effective Feedback” 2022

 “Top 5 Rules of Mentorship” 2023

Lecturer, University of Pittsburgh APP Leadership Certificate Program

 “Professional Networking in the Age of Social Media” 2021

**Undergraduate Students, University of Pittsburgh**

Lecturer, Bench to Bedside Course, 10 undergraduate students 2017, 2020

**Teaching Products/Curriculum Development**

|  |  |  |
| --- | --- | --- |
| **Title** | **Description** | **Date** |
| Career Focused Curriculum for Pediatric Residents | Along with course co-directors, established a yearly recurring series focused on areas of professional development. The curriculum consists of 10-12 sessions a year and includes topics such as mentoring, CV writing, teaching skills, job search, fellowship application process, negotiation skills, personal finance, and leadership skill development. | 2013 |
| Pediatric Hematology/ Oncology Fellow Lecture Series | Designed and implemented a new pediatric hematology/oncology fellow core didactic curriculum utilizing the American Board of Pediatric Content Specifications. The hour-long lectures are held every week with topics rotating every 18 months. | 2014 |
| Pediatric Hematology/ Oncology EBM Series | Developed a novel, interactive educational series for pediatric hematology/oncology fellows. The lectures included review of basic EBM principles including cost-effective analysis, survival analysis, likelihood ratios, non-inferiority trials, and meta-analysis. | 2015 |
| Pediatric Hematology/ Oncology Journal Club | Designed and implemented a new journal club for the division of pediatric hematology/oncology which includes use of audience response system to engage learners in the critical review of the literature.  | 2016 |
| Faculty Mentoring Program | Recognizing the need for faculty development on effective mentoring skills, designed an innovative course using adult learning principles. Sessions are interactive and faculty participants leave with practical resources to utilize in their mentoring relationships. The curricula has been offered throughout UPSOM via the ICRE MiniMedEd Course: Effective Mentoring and in the Department of Pediatrics via the MentorSHIP course. | 2021 |
| Scholarly curriculum | Along with Dr. Brittani Seynnaeve, designed and implemented a new pediatric hematology/oncology fellow curriculum for scholarly activity planning and development. The curriculum consists of 8 sessions per year for first year fellows and includes topics such as review of scholarship types, scholarship timelines/expectations, finding a mentor, CV/biosketch writing, developing a research question, introduction to grant writing, forming, and utilizing SOC. | 2021 |

**Mentoring**

**University of Pittsburgh, Bioengineering Students**

Juliana Bursic, Maria Munsch, Hunter Eason, Alicia Kolling and Ryan Begun. 2013 – 2014

Senior Project: “The Comfort Buddy”, a stuffed toy designed for hospitalized

pediatric oncology patients that warms when hugged.

**University of Pittsburgh School of Medicine, Medical Students**

Emily Rosenberger, MSTP student, Longitudinal Clinical Clerkship 2013 – 2015

Kevin Levine, MSTP student, Longitudinal Clinical Clerkship 2017

**UPMC Children's Hospital of Pittsburgh,** **Pediatric Residents, Fellows, and Faculty**

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| --- | --- | --- | --- | --- |
| **Mentee** | **Context of Mentorship** | **Current Mentee****Position** | **Mentee Achievements** | **Dates** |
| **Resident Mentees** |
| Lindsay Blazin, MD, MPH | Professional Development, Educational Scholarship | Assistant Professor, Indiana University | * Publications *(4 poster abstracts)*
* Heme/Onc Fellowship
 | 2013 – 2016 |
| Meghan McCormick, MD | Professional Development, Resident QI Project | Assistant Professor, UPMC Children’s Hospital of Pittsburgh | * Transfusion reaction guideline
* Heme/Onc Fellowship
 | 2014 – 2017 |
| Katrina O’Halloran, MD | Professional Development, Resident Scholarly Project | Attending Physician, Children’s Hospital of LA | * Publication *(one published article)*
* Heme/Onc Fellowship
 | 2015 – 2018 |
| Rebecca Epperly, MD | Professional Development, Resident Scholarly Project | Instructor, St. Jude Children’s Research Hospital | * Publications *(one published article, one poster abstract)*
* Heme/Onc Fellowship
 | 2016 – 2017 |
| Shireen Ganapathi, MD | Professional Development | Acting Instructor, Seattle Children’s Hospital | * Heme/Onc Fellowship
 | 2016 – 2019 |
| Erin Cummings, MD | Professional Development | Assistant Professor, UPMC Children’s Hospital of Pittsburgh | * Chief Residency
 | 2016 – 2019 |
| Jillian Lapinski, MD | Professional Development, Resident Scholarly Project | Heme/Onc Fellow, University of Michigan | * Publications *(one poster abstract)*
* Heme/Onc Fellowship
 | 2017 – 2020 |
| Alisa Brennan, MD | Professional Development | PEM Fellow, University of Chicago |  | 2017 – 2020 |
| Dana Tlais, MD | Professional Development, Resident Scholarly Project | Pediatric Neuro-Onc Fellow, Stanford | * Asparaginase guideline
* Heme/Onc Fellowship
 | 2018 – 2019  |
| Naomi Gunawardena, MD | Professional Development | Heme/Onc Fellow, Children’s Hospital of Philadelphia | * Heme/Onc Fellowship
 | 2018 – 2021 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Mentee** | **Context of Mentorship** | **Current Mentee****Position** | **Mentee Achievements** | **Dates** |
| **Fellow Mentees** |
| Angela Girvin, MD | Professional Development, Scholarly Projects | Assistant Professor, University of Rochester Medical Center | * Quality improvement project *(oral abstract presentation)*
 | 2013 – 2015  |
| Kaitlin Stanley, MD, MS | Professional Development, Scholarly Projects | Attending Physician, Children’s Hospital of Philadelphia | * Publications *(two published articles, two poster abstracts)*
 | 2015 – 2018 |
| Allison Close, MD, MS | Professional Development, Scholarly Projects, Clinical Research | Assistant Professor, Helen DeVos Children’s Hospital | * Publications *(two manuscripts, one book chapter, two poster abstracts)*
* Fertility Preservation Consult Team development
 | 2016 – 2019  |
| Meghan McCormick, MD, MS | Professional Development, Scholarly Projects | Assistant Professor, UPMC Children’s Hospital of Pittsburgh | * Publications *(one manuscripts, two poster abstracts)*
 | 2017 – 2020  |
| Grace Slater, MD | Professional Development | Pediatric Hospital Medicine Fellow, UPMC Children’s Hospital of Pittsburgh | * Scholarly Oversight Committee
 | 2019 – 2021  |
| Eleanor Sharp, MD | Professional Development, Educational Research, Master’s Thesis Committee | Pediatric Hospital Medicine Fellow, UPMC Children’s Hospital of Pittsburgh | * Research Mentor
* Publications *(two manuscripts, multiple abstracts)*
 | 2020 – 2022  |
| Emily Geramita, MD, PhD | Professional Development, Educational Research | Hematology/ Oncology Fellow, UPMC Hillman Cancer Center | * Research Mentor
* ASH Medical Educator’s Institute
 | 2023 – present |

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| --- | --- | --- | --- | --- |
| **Mentee** | **Context of Mentorship** | **Current Mentee****Position** | **Mentee Achievements** | **Dates** |
| **Faculty Mentees** |
| Brittani Seynnaeve, MD, MS | Faculty Mentoring Committee | Assistant Professor, UPMC Children’s Hospital of Pittsburgh | * Career guidance
* Appointment to Associate Fellowship Program Director
 | 2018 – present |
| Bianca Loverde, DO | Faculty Mentoring Committee, Master’s Thesis Committee | Associate Professor, West Virginia University | * Career guidance
* Appointment to Director of NICU Resident Education
 | 2018 – 2021 |
| Karena Lawrence, MD, MS | Faculty Mentoring Committee | Assistant Professor, UPMC Children’s Hospital of Pittsburgh | * Career guidance
 | 2020 – 2023  |
| Allison Williams, MD | Faculty Mentoring Committee | Assistant Professor, UPMC Children’s Hospital of Pittsburgh | * Career guidance
 | 2020 – present  |
| Katharina Hayes, MD | Faculty Mentoring Committee | Assistant Professor, UPMC Children’s Hospital of Pittsburgh | * Career guidance
 | 2020 – present  |
| Mosopefoluwa Lanlokun | Faculty Mentoring Committee | Assistant Professor, UPMC Children’s Hospital of Pittsburgh | * Career guidance
 | 2021 – present  |
| Janet Digber-Williams | Faculty Mentoring Committee | Assistant Professor, UPMC Children’s Hospital of Pittsburgh | * Career guidance
 | 2023 – present  |

**RESEARCH**

**Scholarly Activities in Medical Education**

1. Assessment of the impact of a subspecialty longitudinal continuity clinic 2015 – 2020
2. Design, implementation, and evaluation of a faculty mentoring program 2016 – present

**Current Leadership and Scholarship in Clinical Oncology**

1. Founding Director, Pediatric Oncofertility Consult Team 2017 – 2022

 *Establishment of consult service to improve access to both standard of care*

 *and experimental fertility preservation options for pediatric cancer patients.*

1. Founding Director, Leukemia/Lymphoma Working Group 2017 – present

 *Establishment of institutional standards for pediatric leukemia/lymphoma*

 *and ongoing quality improvement projects.*

* + 1. Asparaginase premedication and therapeutic drug monitoring
		2. Discharge checklist for newly diagnosed patients
		3. Tumor lysis syndrome guideline
		4. Dexrazoxane use guideline
1. Founding Director, Multidisciplinary PTLD Group 2021 – present

**Non-Funded Research (Collaborative Clinical Trials)**

* + - 1. AALL1731: A Phase 3 Trial Investigating Blinatumomab in Combination with Chemotherapy in Patients with Newly Diagnosed Standard Risk or Down Syndrome B-Lymphoblastic Leukemia and the Treatment of Patients with Localized B-Lymphoblastic Lymphoma

Role: Site PI

Funding Source: Children’s Oncology Group

* + - 1. ANHL1522: A Pilot Study of Rituximab and Third-Party Latent Membrane Protein-specific Cytotoxic T-Lymphocytes in Pediatric Solid Organ Recipients with EBV-Positive CD20-Positive Post-Transplant-Lymphoproliferative Disease.

 Role: Site PI

 Funding Source: Children’s Oncology Group

1. AHOD1331: A Randomized Phase III Study of Brentuximab Vedotin for Newly Diagnosed High-Risk Classical Hodgkin Lymphoma in Children and Adolescents

 Role: Site PI

 Funding Source: Children’s Oncology Group

1. AHOD0831: A Non-Randomized Phase III Study of Response Adapted Therapy for the Treatment of Children with Newly Diagnosed High Risk Hodgkin Lymphoma

 Role: Site PI

 Funding Source: Children’s Oncology Group

1. AHOD0431: A Phase III Study for the Treatment of Children and Adolescents with Newly Diagnosed Low Risk Hodgkin Disease

 Role: Site PI

 Funding Source: Children’s Oncology Group

1. AHOD03P1: Treatment of Children with Newly-Diagnosed Low Stage Lymphocyte Predominant Hodgkin Disease

 Role: Site PI

 Funding Source: Children’s Oncology Group

1. AHOD0031: A Phase III Group-Wide Study of Dose-Intensive Response-Based Chemotherapy and Radiation Therapy for Children and Adolescents with Newly Diagnosed Intermediate Risk Hodgkin Disease

 Role: Site PI

 Funding Source: Children’s Oncology Group

**Journal Refereeing**

Academic Medicine 2018, 2020

Pediatric Blood & Cancer 2019

Academic Pediatrics 2020

Pediatric Transplantation 2022

**Invited Seminars and Lectureships**

Department of Pediatrics Annual Lee Bass Dinner, Pittsburgh, PA 2015

 “The Preceptor as Mentor”

Aflac Visiting Lecture Series, Atlanta, GA 2016

 “Innovations in Graduate Medical Education”

Academy of Master Educators, University of Pittsburgh School of Medicine 2018

 “Being a Good Mentee”

Magee-Womens Hospital of UPMC, Division of Urogynecology 2018

 “The Mentor-Mentee Relationship”

Western Psychiatric Institute and Clinic Wellness Retreat for Psychiatric Residents 2018

 “Making the Most of Mentoring”

Department of Pediatrics Grand Rounds 2018

 “Novel Therapeutics in Acute Lymphoblastic Leukemia”

University of Pittsburgh School of Medicine MedEd Day Panel 2018

 “How to Turn Medical Education into Scholarship”

Department of Obstetrics, Gynecology, and Reproductive Services Faculty Retreat 2019

 “Being a Good Mentee”

Department of Pathology Faculty Development Series 2019

 “Promotion at Pitt Med in the Educator Track”

University of Pittsburgh School of Medicine MedEd Day Workshop 2019

 “Making it Count: Turning Education into Scholarship”

Department of Anesthesia Grand Rounds 2020

 “Mentoring in Academic Medicine”

UPMC McKeesport Internal Medicine, Faculty Development Workshop 2020

 “Mentoring in Academic Medicine”

University of Pittsburgh School of Medicine MedEd Day Panel 2021

 “Medical Educator Development: Best Practices and Resources”

UPMC GME: Enhancing Teaching Skills for Medical Educators 2022

 “Maximizing the Mentoring Relationship”

Division of Pulmonary, Allergy, and Critical Care Medicine 2022

 “Effective Mentoring”

Department of Plastic Surgery Grand Rounds 2022

 “Managing Our Time, Our Workflow, and Ourselves”

Department of Family Medicine 2023

 “Effective Mentoring”

**SERVICE**

**National**

Member ASPHO Education Committee 2016 – present

Responsible Cancer Control and Supportive Care 2017 – 2020

 Investigator Children’s Oncology Group

Facilitator APPD Fall Meeting Table to Able Session 2018, 2022

Member APPD Faculty/Professional Development Learning Community 2018 – present

Abstract Reviewer APPD Spring Meeting 2020

Vice-Chair APPD Faculty/Professional Development Learning Community 2020 – 2022

Member APPD Council of Learning Community Chairs 2020 – present

Chair APPD Faculty/Professional Development Learning Community 2022 – present

Vice-Chair ASPHO Education Committee 2022 – present

Facilitator ASPHO Early Career Roundtable Session 2022, 2023

Member ACGME Peds Hematology Oncology Appeals Panel 2023

Member ASPHO Conference Task Force 2023

**University of Pittsburgh School of Medicine**

Mentor Women in Medicine and Science Forum Speed Mentoring 2014

Member UPSOM MedEd Day Planning Committee 2016 – 2017

Abstract Reviewer UPSOM MedEd Day, yearly 2016 – present

Poster Judge UPSOM MedEd Day, yearly 2016 – present

Member Fertility Preservation Group 2016 – present

Member UPMC Graduate Medical Education Committee 2016 – present

Member UPMC GME Professional Development Subcommittee 2018 – present

Abstract Reviewer UPMC GME Leadership Conference, yearly 2018 – 2020

Poster Judge UPMC GME Leadership Conference, yearly 2018 – 2020

Member UPSOM Appointment Stream Faculty Promotions Committee 2021 – 2022

Mentor ASCO Oncology Summer Internship 2021 – 2022

 *program for URM medical students to gain mentorship in oncology*

Member UPSOM Executive Committee of the Faculty 2022 – present

**UPMC Children’s Hospital of Pittsburgh**

Member Asthma Compliance Committee 2009 – 2010

Member Condition A/C Oversight Committee 2009 – 2010

Member Condition Help Review Committee 2009 – 2010

Member 9B Floor Leadership Committee 2009 – 2010

Member Chemotherapy Oversight Committee 2009 – 2020

Author Clinical Effectiveness Guideline, Transfusion Reactions 2015

Author Clinical Effectiveness Guideline, Management of Pediatric ITP 2015

Member Medical Executive Committee 2021 – 2023

**Department of Pediatrics**

Member Residency Performance & Evaluation Committee 2009 – 2010

Leader Program Evaluation Committee 2011 – present

 Pediatric Hematology/Oncology Fellowship Program

Member Cerner Optimization Committee 2013 – 2015

Member Pediatric Residency Selection Committee 2014 – 2021

Member Clinical Competency Committee 2014 – present

 Pediatric Hematology/Oncology Fellowship Program

Member Clinical Competency Committee 2014 – present

 Pediatric Residency Program

Member Educational Champions Planning Group 2015

Member Faculty Development Leadership Group 2015 – 2016

Member Bridges Mentoring Program Development Group 2015 – 2018

Member Diversity and Inclusion Committee 2015 – 2021

Member Department of Pediatrics Vice Chair 2021

 of Faculty Affairs Search Committee

Member, Ad-hoc Department of Pediatrics Promotion Committee 2021 – present