



Master Teacher Leadership Development Program

Graduation

JUNE 2020

CONTRIBUTIONS TO MEDICAL & HEALTH SCIENCE EDUCATION BY
COHORT 18 DURING THEIR MASTER TEACHER YEAR

Graduate School of Education
& Human Development

School of Medicine
& Health Sciences

**THE GEORGE
WASHINGTON
UNIVERSITY**

WASHINGTON, DC



About the Program

Offered by the George Washington University's Graduate School of Education and Human Development in partnership with the GW School of Medicine & Health Sciences, the Master Teacher Leadership Development Program (MTLDP) has three main purposes:

1. To enhance teaching skills,
2. To develop educational leadership potential, and
3. To promote scholarship in education.

The program includes five graduate level courses with a Certificate in Leadership Development awarded from GSEHD at completion. The following pages highlight the application of coursework taken during the year to the daily practice of each member of Cohort 18.

Meet Cohort 18

YOUSIF BARZANI, MD, MLS
Biomedical Laboratory Sciences
School of Medicine & Health Sciences

AMY CAGGIULA, MD
Emergency Medicine
School of Medicine & Health Sciences

DAVID CALL, MD
Psychiatry and Behavioral Sciences
Children's National Hospital

NICOLE DEVAUL, PhD
Anatomy and Cell Biology
School of Medicine & Health Sciences

MANJARI DIMRI, MBBS
Biochemistry and Molecular Medicine
School of Medicine & Health Sciences

LEIGH FRAME, PhD, MHS
Clinical Research and Leadership
School of Medicine & Health Sciences

LOWELL FRANK, MD
Cardiology
Children's National Hospital

JOHN KULESA, MD
Hospital Medicine
Children's National Hospital

MITALI PATEL, DDS
Pediatric Dentistry
Children's National Hospital

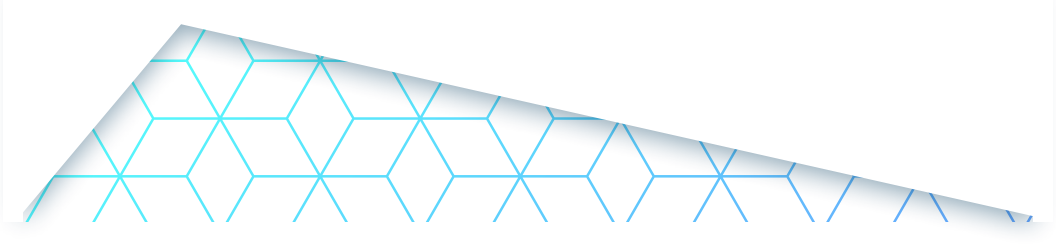
ELISHA PETERSON, MD
Anesthesiology, Pain, and Perioperative Medicine
Children's National Hospital

NATASHA N. POWELL, MD, MPH
Emergency Medicine
School of Medicine & Health Sciences

MARC SPENCER, PhD
Anatomy and Cell Biology
School of Medicine & Health Sciences

SIMRANJEET SRAN, MD
Neonatology
Children's National Hospital

VICTOR TAYLOR II, PhD
Anatomy and Cell Biology
School of Medicine & Health Sciences



Yousif Barzani, MD, MLS

Biomedical Laboratory Sciences
The GW School of Medicine & Health Sciences

CONTRIBUTIONS TO MEDICAL & HEALTH SCIENCE EDUCATION	
TEACHING ENHANCEMENTS	BENEFICIARIES
Incorporated adult learning principles into MLS 6141 Advanced Immunology & Serology curriculum	Medical Laboratory Sciences graduate students
Utilized PHLET format and incorporated adult learning principles into MLS 6130 Advanced Hematology I curriculum	Medical Laboratory Sciences graduate students
Utilized PHLET format and incorporated adult learning principles into MLS 6131 Advanced Hematology II curriculum	Medical Laboratory Sciences graduate students
Utilized PHLET format and incorporated adult learning principles into HSCI 2102 Pathophysiology curriculum	Health Sciences undergraduate students
Utilized PHLET format and Incorporated active learning techniques into MLS 4219 Parasitology, Mycology, & Virology Laboratory sessions	Medical Laboratory Sciences undergraduate students
EDUCATIONAL SCHOLARSHIP	TYPE OF WORK
Member, GW Institutional Review Board (IRB), Blue Panel primary member; alternate Gold Panel member	Research review
Use of Instagram to Enhance Student Engagement in Distance Learning; Co-Designer and Co-Principal Investigator	Qualitative study
EDUCATIONAL LEADERSHIP	BENEFICIARIES
Program Director, MSHS Laboratory Medicine Program	Faculty and Health Sciences graduate students
Member, Educational Policy & Technology Committee	Faculty and students
Member, Health Sciences Student Evaluation Committee	Faculty and students
Journal of Collaborative Healthcare & Translational Medicine Editorial Board	Faculty and students

CONTRIBUTIONS TO MEDICAL & HEALTH SCIENCE EDUCATION	
TEACHING ENHANCEMENTS	BENEFICIARIES
Developed a comprehensive longitudinal curriculum and assessment measures for the Emergency Medicine "Residents as Teachers" program	Emergency Medicine residents
Created LGBTQ Health lecture series for pre-clinical medical students	Medical students
Developed LGBTQ-focused Medical Humanities sessions	Medical students
Created and implemented interactive simulation-based patient safety session	Medical students
EDUCATIONAL SCHOLARSHIP	TYPE OF WORK
Feasibility and Usability of Tele-interview for Medical Residency Interview	Systematic review, published in World Journal of Emergency Medicine
EDUCATIONAL LEADERSHIP	BENEFICIARIES
Assistant Program Director, Emergency Medicine Residency Program	Emergency Medicine residents
Course Director, Intersessions	MS III-IV
Clinical Competency Committee Chair (PGY3)	Emergency Medicine residents
National Clinical Pathologic Case Competition (CPC) judge	Emergency Medicine residents and faculty
Emergency Medicine mini-Fellowship program director and mentor	Emergency Medicine residents

David Call, MD

Psychiatry and Behavioral Sciences
Children's National Hospital

CONTRIBUTIONS TO MEDICAL & HEALTH SCIENCE EDUCATION	
TEACHING ENHANCEMENTS	BENEFICIARIES
Created skills-based learning sessions using adult learning principles for introductory series to Child & Adolescent Psychiatry	Child & Adolescent Psychiatry fellows
Integrated adult learning theory and active learning principles into gender development didactics	Medical students, Child & Adolescent Psychiatry residents and fellows
Revised assessment measures for inpatient/outpatient rotations	Child & Adolescent Psychiatry fellows
Incorporated reflection exercise into semi-annual and in-service exam reviews	Child & Adolescent Psychiatry fellows
EDUCATIONAL SCHOLARSHIP	TYPE OF WORK
Development of Curriculum for Gender Affirming Care for Child & Adolescent Psychiatry Fellows	Descriptive study
EDUCATIONAL LEADERSHIP	BENEFICIARIES
Started faculty development series on education/teaching of trainees	Faculty
Program Director, Child & Adolescent Psychiatry Fellowship	Child & Adolescent Psychiatry fellows

CONTRIBUTIONS TO MEDICAL & HEALTH SCIENCE EDUCATION	
TEACHING ENHANCEMENTS	BENEFICIARIES
Integrated an Anatomy and Histology session to be taught as one session	Medical students
Integrated Histology into the Gross Anatomy laboratory session with flash cards	Medical students
Developed more interactive Histology laboratory sessions	Faculty and medical and graduate students
Integrated Histology with more of the basic sciences throughout the medical curriculum	Medical students
EDUCATIONAL SCHOLARSHIP	TYPE OF WORK
Efficacy of Preparatory Work for Graduate Gross Anatomy Laboratory Sessions; Principal Investigator	Quantitative study
The Efficacy of Podcasts to Enhance Student Learning in the Anatomical Sciences; Co-Principal Investigator	Quantitative study
Virtual Reality to Enhance Gross Anatomy Education in Graduate and Medical Student Programs; Investigator	Mixed-methods study
EDUCATIONAL LEADERSHIP	BENEFICIARIES
Assistant Director, Graduate Certificate in Anatomical and Translational Sciences (GCATS) and Masters in Anatomical and Translational Sciences (MATS)	Faculty and graduate students
Co-Director, Reproductive and Endocrine Block in undergraduate medical curriculum	Medical students
Histology discipline lead in undergraduate medical curriculum	Faculty and students
Course Director, Graduate Gross Anatomy	Graduate students
Course Director, Physician Assistant Gross Anatomy	Medical students
Member, Block, Theme, and Discipline Directors Committee	Faculty and medical students
Member, Preclinical Curriculum Committee	Faculty and medical students

Manjari Dimri, MBBS

Biochemistry and Molecular Medicine
The GW School of Medicine & Health Sciences

CONTRIBUTIONS TO MEDICAL & HEALTH SCIENCE EDUCATION	
TEACHING ENHANCEMENTS	BENEFICIARIES
Designed 4 sessions for a new Biochemistry course following a PLHET design with active learning techniques	Biochemistry graduate students
Designed a new integrated case-based review session for Medical Biochemistry	Medical students
Re-designed 5 current teaching sessions to incorporate active learning techniques	Medical students
EDUCATIONAL SCHOLARSHIP	TYPE OF WORK
Medical Biochemistry Education During COVID-19 Pandemic	Short report, pending review, Biochemistry and Molecular Biology Education
EDUCATIONAL LEADERSHIP	BENEFICIARIES
Co-Director, Current Techniques in Biochemistry Research course in Master's Biochemistry program	Graduate students
Member, Education Policy and Technology Committee	Faculty and undergraduate, graduate, and medical students

CONTRIBUTIONS TO MEDICAL & HEALTH SCIENCE EDUCATION	
TEACHING ENHANCEMENTS	BENEFICIARIES
Designed new Nutritional Immunology course (INTM 6120) using the principles of adult learning	Graduate students and faculty
Incorporated reflection into the new nutrition concentration for Integrative Medicine	Graduate students and faculty
Redesigned PA Nutrition Week using PHLET and principles of adult learning	Medical students
Designed new Food as Medicine course (HSCI 2195) using the principles of adult learning	Undergraduate Health Sciences students
EDUCATIONAL SCHOLARSHIP	TYPE OF WORK
Conducted initial program operational review for Integrative Medicine MSHS & Graduate Certificate	Program evaluation
EDUCATIONAL LEADERSHIP	BENEFICIARIES
Program Director, Integrative Medicine	Health Sciences students and faculty
Executive Director, Office of Integrative Medicine and Health	Healthcare providers to the public-at-large
Chair, Health Sciences Curriculum Committee	Faculty and Health Sciences students
Board member, Access Integrative Medicine (AIM) Health Institute	Healthcare providers to the public-at-large
Member, Accreditation Council for Continuing Medical Education (ACCME) Task Force & Communications/PR Subcommittee, Academy of Integrative Health & Medicine (AIHM)	Integrative Medicine & Health community
Member, Education Committee, Academic Consortium for Integrative Medicine & Health (the Consortium)	Integrative Medicine & Health community
Member, Education Committee, Integrative Medicine for the Underserved (IM4US)	Integrative Medicine for the Underserved members

Lowell Frank, MD

Cardiology
Children's National Hospital

CONTRIBUTIONS TO MEDICAL & HEALTH SCIENCE EDUCATION	
TEACHING ENHANCEMENTS	BENEFICIARIES
Integrated PLHET, adult learning theory, and classroom assessment techniques into multiple Cardiology fellow conferences	Cardiology fellows
Conducted faculty development session on Kolb Learning Styles Inventory	Cardiology fellows and faculty
Redesigned a longitudinal, integrated non-invasive imaging curriculum including expanded evaluation tools	Cardiology fellows
Transitioned daily Cardiology fellow conferences to virtual format	Cardiology fellows and faculty
EDUCATIONAL SCHOLARSHIP	TYPE OF WORK
Variations in Non-Invasive Imaging Curricula in Pediatric Cardiology Fellowships	Descriptive study
Covid-19: The Impact on Trainees and Training Programs	National presentation (AAP webinar)
Cardiology Fellowship Adaptions to Covid-19	Descriptive study
Shared Educational Sessions and Their Effect on Cardiology Fellow Wellness: A Quality Improvement Initiative	Quality improvement
EDUCATIONAL LEADERSHIP	BENEFICIARIES
Director, Pediatric Cardiology Fellowship program at CNH	Cardiology fellows and faculty
President, the Society of Pediatric Cardiology Training Program Directors (SPCTPD)	Program directors and fellows nationwide
Co-moderated 4 international webinars on Pediatric Cardiology topics during the Covid-19 pandemic	Faculty and fellow Cardiologists, cardiac surgeons, intensivists and anesthesiologists
Co-lead the Pediatric Cardiology National Educational Series (PC-NES), a new biweekly educational series for US Pediatric Cardiology fellows during the Covid-19 pandemic	Pediatric Cardiology fellows nationwide

CONTRIBUTIONS TO MEDICAL & HEALTH SCIENCE EDUCATION	
TEACHING ENHANCEMENTS	BENEFICIARIES
Utilized Bloom's Taxonomy to develop a session for professorial rounds	Medical students, residents, and faculty
Integrated PLHET and adult learning theory into Clinical Hospitalist teaching sessions	Residents and medical students
EDUCATIONAL SCHOLARSHIP	TYPE OF WORK
From Mediocre to Masterly: Using Cognitive Interviewing to Improve Survey Design	Pediatric Academic Society Conference and Pediatric Hospital Medicine Conference, 2020 national conference academic workshop-cancelled due to COVID-19 pandemic
Designing a Process for Cardiology Patient Transfers: A Quality Improvement, Descriptive Study on Inter-provider Communication and Resident Education	Quality improvement study, published in Pediatric Quality and Safety
Cross-Cultural Global Medical Education: A Qualitative Study of Healthcare Students and Providers in Lesotho	Association of Pediatric Program Directors Conference within the Global Health Learning Community, 2020 national conference podium presentation
EDUCATIONAL LEADERSHIP	BENEFICIARIES
Co-lead, Senior Residents as Teachers (SRATs) feedback curriculum	Residents
Member, COVID-19 Acute Care Management/Treatment Protocol Task Force	Faculty

Mitali Patel, DDS

Pediatric Dentistry
Children's National Hospital

CONTRIBUTIONS TO MEDICAL & HEALTH SCIENCE EDUCATION	
TEACHING ENHANCEMENTS	BENEFICIARIES
Utilized Bloom's Taxonomy and PHLET to revise and lead seminar series on Pediatric Dentistry	Pediatric Dentistry residents
Mentored development of resident-led teaching sessions based on active learning techniques	Pediatric Dentistry residents
Designed three teaching sessions on public health topics in Dentistry to include reflection	Pediatric Dentistry residents
Incorporated adult learning principles into chairside teaching sessions on Pediatric Dentistry	Pediatric Dentistry residents
EDUCATIONAL SCHOLARSHIP	TYPE OF WORK
What are Educational and Training Barriers to the Delivery of Interceptive Care by Pediatric Dentists?	Mixed-methods (pilot study)
How Do We Improve Assessment of Performance in Pediatric Dental Residents?	Quasi-experimental (pilot study)
EDUCATIONAL LEADERSHIP	BENEFICIARIES
Program Director, Pediatric Dentistry Residency program	Pediatric Dentistry residents
Member, Qualifying Examination Committee for the American Board of Pediatric Dentistry	Pediatric Dentistry residents, Dental Board Certification body
Developing learning modules as part of Dentistry rotation for Pediatric Medicine rotators	Pediatric Dentistry residents and fellows
Designing new assessment methods for Pediatric Dentistry residents	Pediatric Dentistry residents

CONTRIBUTIONS TO MEDICAL & HEALTH SCIENCE EDUCATION	
TEACHING ENHANCEMENTS	BENEFICIARIES
Incorporated PLHET into Pediatric PACU and Pediatric Pharmacology didactic sessions	Anesthesiology residents and Anesthesiology assistants
Developed curriculum seated in adult learning principles and transformational learning techniques for Pediatric Pain portion of new SMHS/CNH combined pain medicine fellowship	Nurses, patients, residents, medical students, and Anesthesiology fellows
Enhanced question quality through assessment tools for Pediatric Anesthesiology MOCA (Maintenance of Certification in Anesthesiology) as a question author for the American Board of Anesthesiology	Anesthesiologists certified through the American Board of Anesthesiology
Applied classroom assessment tools to didactic as a faculty panelist on "The ABCs of Anesthesia" at American Society of Anesthesiology Conference	Nationwide medical students
Created and facilitated problem based learning sessions at Society of Pediatric Pain Medicine Conference and CNH	Nationwide Anesthesiology attendings and CNH Anesthesiology fellows
EDUCATIONAL SCHOLARSHIP	TYPE OF WORK
Using Marsick's Informal Learning Framework, How Do Pediatric Residents Learn About Pain In Children?	Qualitative study (pilot)
MythBusters: Break Opioid Myths, Understanding the Role of the Prescriber, and Building Adaptive Patient Interactions	Society of Pediatric Anesthesia, 2019 national conference workshop
EDUCATIONAL LEADERSHIP	BENEFICIARIES
Site Director, new Children's National/GW Pain Medicine Fellowship	Anesthesiology fellows, patients, and D.C.
Physician redesign group of MOCA Program	Anesthesiologists certified through the American Board of Anesthesiology
Committee member, Residents and Medical Students for American Society of Anesthesiology	Nationwide medical students and Anesthesiology residents
Medical Student and Resident Education Committee member, Society for Education in Anesthesia	Nationwide medical students and Anesthesiology residents
Clinical Apprenticeship Program mentor	SMHS medical students

Natasha N. Powell, MD, MPH

Emergency Medicine
The GW School of Medicine & Health Sciences

CONTRIBUTIONS TO MEDICAL & HEALTH SCIENCE EDUCATION	
TEACHING ENHANCEMENTS	BENEFICIARIES
Developed new clinical integration sessions for the Practice of Medicine course for the School of Medicine	Medical students and faculty
Developed curriculum for a new graduate medical education community health service learning elective on social determinants of health across the District of Columbia for Emergency Medicine residents	Emergency Medicine residents
EDUCATIONAL LEADERSHIP	BENEFICIARIES
Co-Director, Practice of Medicine course	Medical students and faculty
Member, Preclinical Curriculum Committee	Faculty and medical students
Member, Block, Theme, and Discipline Directors Committee	Faculty and medical students
Member, Global Emergency Medicine Educational Leadership Team	Ronald Reagan Institute of Emergency Medicine and international partners across multiple sites in India

CONTRIBUTIONS TO MEDICAL & HEALTH SCIENCE EDUCATION	
TEACHING ENHANCEMENTS	BENEFICIARIES
Developed Anatomy Step 1 review session with clinical vignettes	Preclinical medical students
Redeveloped undergraduate and graduate Human Anatomy course	Undergraduate and graduate students
EDUCATIONAL SCHOLARSHIP	TYPE OF WORK
Teaching Clinical Anatomy Without Lectures in an Integrated Medical Curriculum	Mixed-methods study
EDUCATIONAL LEADERSHIP	BENEFICIARIES
Co-Director, Musculoskeletal, Spinal Cord, & Rheumatology Block in the preclinical medical curriculum	Second-year medical students
Embryology discipline lead for medical curriculum	Preclinical medical students
Member, Block, Theme, and Discipline Directors Committee	Faculty and medical students
Member, Preclinical Curriculum Committee	Faculty and medical students

Simranjeet Sran, MD

Neonatology
Children's National Hospital

CONTRIBUTIONS TO MEDICAL & HEALTH SCIENCE EDUCATION	BENEFICIARIES
TEACHING ENHANCEMENTS	
Created daily curriculum for Pediatric residents rotating in the NICU	Pediatric residents
Created multiple noon conference sessions for Pediatric residents	Pediatric residents
Development of 3-Year weekly curriculum for Neonatology fellows	Neonatology fellows
Revised Boot Camp curriculum for incoming NICU fellows	NICU fellows
Co-developed simulation session for NICU procedural competencies	Faculty and NICU fellows
EDUCATIONAL SCHOLARSHIP	
Evaluation of Flipped Classroom for Neonatology Fellow Curriculum	Site Co-Investigator
Evaluation of Daily Curriculum for Pediatric Residents Rotating in the NICU	Developing study design
EDUCATIONAL LEADERSHIP	
Coordinator, daily resident education	Pediatric residents
Coordinator, weekly fellow education	Neonatology fellows
Coordinator, weekly departmental seminars	Faculty, fellows, advanced practitioners, and outreach NICUs
Co-Coordinator, Neonatal Resuscitation Program	Faculty, fellows, residents, advanced practitioners, and RNs

CONTRIBUTIONS TO MEDICAL & HEALTH SCIENCE EDUCATION	BENEFICIARIES
TEACHING ENHANCEMENTS	
Integrated PLHET and adult learning theory into the first-year medical students' didactic sessions	Medical students
Integrated PLHET and adult learning theory into undergraduate ANAT 2130 and graduate embryology ANAT 6130 courses	Anatomy undergraduate and graduate students
Integrated PLHET and adult learning theory into undergraduate ANAT 2181 and graduate ANAT 6181 Anatomy courses	Anatomy undergraduate and graduate students
Facilitated Anatomy review sessions in the GI/Liver block	Medical students
Incorporated summary tables and flow charts to organize students' knowledge	Medical students, Anatomy undergraduate and graduate students
EDUCATIONAL SCHOLARSHIP	
Increase Spatial Understanding of Embryology Using 3D Models	Quantitative study
EDUCATIONAL LEADERSHIP	
Member, Block, Theme, and Discipline Directors Committee	Faculty and medical students
Member, Preclinical Curriculum Committee	Faculty and medical students
Co-Block Director, GI/Liver block	1st year medical students
Member, Committee of Early Career Award	Junior faculty

FACULTY FOR COHORT 18

Ellen Goldman, EdD
Joseph Bocchino, EdD
Ray Francis, EdD
Pavan Zaveri, MD, MEd

PROGRAM LEADERSHIP

Ellen F. Goldman, EdD, MBA

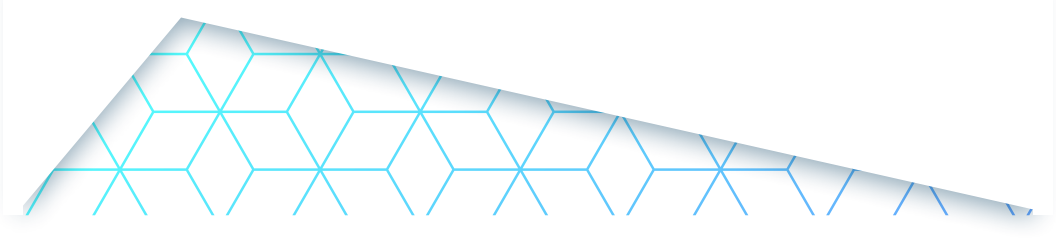
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