DEPARTMENT OF MEDICINE
2015-2016 Annual Report

The GW Medical Faculty Associates
As the Eugene Meyer Professor and Chair of the Department of Medicine, I am fortunate to work with an amazing group of talented physicians, researchers, administrators and students. Our growth in almost every area has been nothing short of extraordinary and I wanted this year to be able to highlight some of these accomplishments. I was stunned and excited when starting this mission to realize just how much we have to showcase. We have increased our productivity in every area of importance; from clinical to educational to research to philanthropy.

Our clinical charges have grown from just over $85 million to over $125 million in the last seven years. The total dollars in grant money from federal, foundational and pharmaceutical sources has surpassed the $6 million mark, and many of our young, new research oriented faculty secured their first source of funding this past year. This could not have been accomplished without the assistance and support from Dr. Bob Miller, Senior Associate Dean for Research at the Medical School.

Our Department has played a major role in implementing the new Medical School curriculum and in helping the School of Medicine achieve an excellent report from the LCME. We have also contributed to the Hospital’s expansion with the success of both the Kidney Transplant Service as well as the TAVR program. We achieved expansion of the Hospital’s patient population through the One-Call service, of which the Department through our Hospitalists take the majority of transfers.

Our commitment to diversity is reflected in our house staff and faculty. With every recruitment we must continue to strive to mimic our multi-cultural community of Washington, DC.

We will continue to make advances in areas from innovative research to health disparities; from clinical public health to new payment models. It is exciting to observe our Cancer Center begin to recruit and expand. This joint effort with the Hospital and the University is indicative of the great things that we can accomplish together.

Our three main objectives remain clear. We must continue to provide the highest quality of patient care, educate the next generation of physicians, and provide an atmosphere for innovative research in areas from basic science to medical education. Unlike most professions, our work is never done.

Alan G. Wasserman, MD, FACC, MACP
Eugene Meyer Professor
Chairman, Department of Medicine
2015-2016 ANNUAL REPORT
The GW Medical Faculty Associates Department of Medicine, Faculty and Leadership

Alan G. Wasserman, MD, FACC, MACP
Chairman of the Department of Medicine
Eugene Meyer Professor of Medicine

Gary L. Simon, MD, PhD, MACP
Vice Chairman, Department of Medicine
Walter G. Ross Professor of Medicine and of Microbiology & Tropical Medicine
Director of the Division of Infectious Diseases

Delores Jewell, RN, MSN
Associate Chair for Finance and Operations
DIVISION DIRECTORS

**ALLERGY**
Daniel Ein, MD  
Clinical Professor of Medicine  
Director, Allergy & Sinus Center

**CARDIOLOGY**
Richard Katz, MD  
Bloedorn Professor of Cardiology  
Director, Division of Cardiology  
Director, Cardiovascular Institute

**ENDOCRINOLOGY**
Joshua Cohen, MD  
Professor of Medicine  
Interim Director, Division of Endocrinology  
Director, Diabetes Center; Director, Thyroid Center

**GENERAL INTERNAL MEDICINE**
April Barbour, MD, MPH, FACP  
Associate Professor of Medicine  
Director, Division of General Internal Medicine  
Director, Primary Care Residency Program

**GASTROENTEROLOGY**
Marie Borum, MD, EdD, MPH  
Professor of Medicine  
Director, Division of Gastroenterology

**GERIATRICS/PALLIATIVE CARE**
Katalin Roth, MD, JD  
Associate Professor of Medicine  
Director of the Division of Geriatrics and Palliative Medicine
DIVISION DIRECTORS

HEMATOLOGY/ONCOLOGY
Eduardo Sotomayor, MD
Professor of Medicine
Director, GW Cancer Center
Director, Division of Hematology/Oncology

PULMONARY
Guillermo Gutierrez, MD, PhD
Professor of Medicine, Anesthesiology and Engineering and Applied Sciences
Division of Pulmonary, Critical Care and Sleep Disorders

HOSPITAL MEDICINE
James Gehring, MD
Assistant Professor of Medicine
Interim Director, Division of Hospital Medicine

RENAL AND HYPERTENSION
Dominic Raj, MD, DM, DNB, FASN, FACP
Professor of Medicine and of Epidemiology and Biostatistics and of Biochemistry and Molecular Biology
Director, Division of Renal Disease and Hypertension

INFECTIONIOUS DISEASES
Gary L. Simon, MD, PhD, MACP
Vice Chairman, Department of Medicine
Walter G. Ross Professor of Medicine and of Microbiology & Tropical Medicine
Director, Division of Infectious Diseases

RHEUMATOLOGY
Victoria Shanmugam, MD, MRCP
Director, Division of Rheumatology
Associate Professor of Medicine

PODIATRY
Michael Stempel, DPM, FACFAS
Chief, Division of Podiatry
Assistant Professor of Medicine, Assistant Professor of Surgery
Director of Podiatry Center
**ADMINISTRATIVE MANAGERS**

Melanie Bossi, MPA
Assistant Director of Clinical Research

Hawanya Brock, BA
Administrative Support Manager

Cristina Burgos
Executive Associate

Donna Embersit, BS
Associate Director of Clinical Research

Jocelyn Hutchinson
Accounting Specialist

Shawn Kimbro, RST, RPSGT, CSE
Sleep Center Manager

Royette Leatham, MBA, LLB
Faculty Affairs Administrator

Mary Claire Marconi
Director of Contact Center Operations & Special Projects

Delphine McDowell
Revenue Cycle Manager

Lara Mounir, MHSA
Special Projects Coordinator

Ann Nichols, MHSA, CPC
Director of Operations for Hematology/Oncology

Erwin Osborn, MHSA
Non-Invasive Cardiology Manager

Shirley Overman, MSN, RN
Nurse Manager

Valorie Simmons
Finance Manager
UNDERGRADUATE MEDICAL EDUCATION LEADERSHIP

Dr. Robert Jablonover
3rd year Primary Care Clerkship Director

Dr. Chavon Onumah
Assistant Primary Care Clerkship Director

Dr. Sara Wikstrom
3rd year Medicine Clerkship Director

Dr. Shant Ayanian
Medicine Assistant Clerkship Director

Dr. Farida Izzi
4th year Medicine Acting Internship Director

Dr. Adam Possner/Dr. Anna Mclean effective 8/1/2016
Clinical Apprenticeship Program Director & Longitudinal Primary Care Clerkship Coordinator

Dr. Andrea Flory
Clinical Skills & Reasoning Theme Director

Dr. Jim Blatt
Professional Development Theme Director

Dr. Katalin Roth
Ethics Theme Director

Dr. David Popiel
Public Health Theme Director

Dr. W. Scott Schroth
Associate Dean for Administration

Dr. Matthew Mintz
Assistant Dean, Pre-Clinical Education

Dr. Katherine Chretien
Assistant Dean for Student Affairs

Dr. Lawrence “Bopper” Deyton
Senior Associate Dean for Clinical Public Health
3rd YEAR RESIDENTS
GRADUATE MEDICAL EDUCATION LEADERSHIP

Dr. Jillian Catalanotti
Director of Internal Medicine Residency Programs

Dr. April Barbour
Director, Primary Care Residency; Associate Program Director of Internal Medicine

Dr. Michael Czarnecki
Associate Program Director of Internal Medicine Fellowship Programs

Dr. Sheena P. Khurana
Associate Program Director, Medical Clinic

Dr. Anne Cioletti
Assistant Director, Primary Care Residency; Associate Program Director of Internal Medicine

Dr. Nupur Mehta
Associate Program Director of Internal Medicine

Dr. Jalil Ahari
Associate Program Director of Internal Medicine
FELLOWSHIP PROGRAM DIRECTORS

CARDIOLOGY
Allen Solomon, MD - General Cardiology Fellowship
Ramesh Mazhari, MD - Interventional Cardiology Fellowship
Cynthia Tracy, MD - Electrophysiology Fellowship

ENDOCRINOLOGY
Joshua Cohen, MD/ Jill Paulson, MD - effective 7/1/2016

GASTROENTEROLOGY
Matthew Chandler, MD

GERIATRICS
Elizabeth Cobbs, MD - Geriatrics
Karen Blackstone, MD - Hospice/Palliative Care
Mikhail Kogan, MD - Integrative Medicine

HEMATOLOGY/ONCOLOGY
Imad Tabbara, MD

INFECTIOUS DISEASES
Afsoon Roberts, MD

PULMONARY
Jalil Ahari, MD

RENAL
Samir Patel, MD/ Scott Cohen, MD - effective 7/1/2016

RHEUMATOLOGY
Rodolfo Curiel, MD
### EMERITUS PROFESSOR FACULTY

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<td>Charles Abrams, MD</td>
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<td>Rochelle Bader, MD</td>
<td>Adjunct Associate Professor Emeritus</td>
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<td>Kenneth Becker, MD</td>
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<td>Philip Birnbaum, MD</td>
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<td>Warren Brill, MD</td>
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<td>Frederick Rickles, MD</td>
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<td>Allan Ross, MD</td>
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<td>Geraldine Schechter, MD</td>
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<td>Paul Schlein, MD</td>
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<td>W. Scott Schroth, MD</td>
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<td>Omega Silva, MD</td>
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<td>David Simon, MD</td>
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<td>P. Jacob Varghese, MD</td>
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<td>Manuel Velasquez, MD</td>
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<td>Lowell Weiss, MD</td>
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<td>Patience White, MD</td>
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<td>Robert Wilkinson, MD</td>
<td>Professor Emeritus</td>
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<tr>
<td>James Cooper, MD</td>
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</tr>
<tr>
<td>Stanley Talpers, MD</td>
<td>Associate Clinical Professor Emeritus</td>
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PROMOTIONS

Congratulations to the following Full-Time Medicine Faculty on their academic promotions effective July 1, 2015:

**PROFESSOR**
Lakhmir Chawla, MD, Professor of Medicine (VA)
Jehan El-Bayoumi, MD, Professor of Medicine
Carlos Palant MD, Professor of Medicine (VA)

**ASSOCIATE PROFESSOR**
Mohammed Aamir Ali MD, Associate Professor of Medicine
Jillian Catalanotti MD, Associate Professor of Medicine
Danielle Davison, MD, Associate Professor of Medicine and Anesthesiology
Vivek Jain, MD, Associate Professor of Medicine
Raya Kheirbek, MD, Associate Professor of Medicine (VA)
Marc Siegel, MD, Associate Professor of Medicine

**LIMITED SERVICE MEDICINE FACULTY**
Richard Kaufman, MD, Clinical Professor Emeritus
Charles Abrams, MD, Associate Clinical Professor Emeritus of Medicine
Elizabeth Wheaton, MD, Associate Clinical Professor
Frederick Parker, III, MD, Associate Clinical Professor
Gary Koritzinsky, MD, Associate Clinical Professor
Mahnaz Momeni, MD, Associate Clinical Professor
Homan Wai, MD, Assistant Clinical Professor
Rebecca Witt, MD, Assistant Clinical Professor
Anne Linton, MS (Librarian), Adjunct Associate Professor

**ASSOCIATE CLINICAL PROFESSOR**
Bonita Coe, MD, Associate Clinical Professor
Robert Kruger, MD, Associate Clinical Professor
Mia Marcus, MD, Associate Clinical Professor

**EMERITUS STATUS EFFECTIVE: 7/1/2016**
James K. Cooper, MD, Clinical Professor Emeritus
David Goodman, MD, Clinical Professor Emeritus
Frederick Rickles, MD, Clinical Professor Emeritus in Residence
W. Scott Schroth, MD, Associate Professor Emeritus
Manuel Velasquez, MD, Clinical Professor Emeritus in Residence
MEDICINE FACULTY OF THE YEAR
Nupur Mehta, MD

CLINIC ATTENDING OF THE YEAR
Chad Henson Martins, MD

VA ATTENDING OF THE YEAR
Matthew Tuck, MD

FAIRFAX ATTENDING OF THE YEAR
Meena Raj, MD

FELLOW OF THE YEAR
Alex Cho, MD

JORGE RIOS RESIDENT OF THE YEAR
Aung Myint, DO

VA RESIDENT OF THE YEAR
Paul Blair, MD

FAIRFAX RESIDENT OF THE YEAR
Mitali Mehta, MD

“ICU” RESIDENT OF THE YEAR
Katie Cramer, MD

INTERN OF THE YEAR
Hind Rafei, MD

PRELIMINARY INTERN OF THE YEAR
Sumeet Gupta, MD

ANNUAL SUSAN HASSELQUIST AWARD
Aneesha Hossain, MD
This award is presented to a resident who exemplifies compassionate care combined with clinical and diagnostic excellence
AOA INDUCTION:
ALPHA OMEGA ALPHA MEDICAL HONOR SOCIETY
Dr. Alan Wasserman, Councilor
Dr. Angelike Liappis, Secretary - Treasurer

HOUSESTAFF INDUCTEES
Betsy Kidder, MD, PhD, PGY2, Internal Medicine resident, Department of Medicine
Erin Vipler, MD, Internal Medicine Chief Resident
Jose Lucar, MD, Infectious Diseases Fellow

FACULTY INDUCTEES
Dr. Jalil Ahari, Assistant Professor of Medicine
Dr. J. Keith Melacon, Professor of Surgery and Chief, Division of Transplantation

ALUMNI INDUCTEE
Dr. Lawrence R. Deyton, Professor of Medicine and of Health Policy, Senior Associate Dean for Clinical Public Health
MASTER TEACHER LEADERSHIP DEVELOPMENT PROGRAM GRADUATION

*June 15th* - *Weingold Conference Center*

**DEPARTMENT OF MEDICINE GRADUATES**

- Chavon Onumah, MD, MPH - General Internal Medicine
- Nora Taylor, MD - Rheumatology
- Sara Wikstrom, MD - Hospital Medicine
TOP DOCS

Congratulations to all the physicians below from the Department of Medicine for being selected to Washingtonian’s Top Docs 2015:

ALLERGY
Daniel Ein
Janine Van Lancker

CARDIOLOGY
Brian Choi
Richard Katz
Scott Shapiro
Allen Solomon
Cynthia Tracy
Alan Wasserman

CARDIOLOGY INTERVENTIONAL
Ramesh Mazhari
Christian Nagy
Jonathon Reiner

ENDOCRINOLOGY
Suzanne Adler
Joshua Cohen
Michael Irwig
Jill Paulson

GASTROENTEROLOGY
M. Aamir Ali
Showkat Bashir
Marie Borum
Sands Irani
Antoinette Saddler
Steven Zeddun

GERIATRICS
Elizabeth Cobbs
Danielle Doberman
Robert Jayes
Christina Puchalski
Katalin Roth

INFECTIOUS DISEASES
David Parenti
Afsoon Roberts
Marc Siegel
Gary Simon
Carmelita Tuazon

INTERNAL MEDICINE
Sharon Baratz
April Barbour
Jillian Catalanotti
Jehan El-Bayoumi (Gigi)
Robert Jablonover
Parvinder Sheena Khurana
Matthew Mintz
Brad Moore
David Popiel
Adam Possner
Paul Silver

NEPHROLOGY
Scott Cohen
Ashte Collins
Susie Lew
Samir Patel
Dominic Raj

ONCOLOGY/HEMATOLOGY
Rebecca Kaltman
Frederick Rickles
Robert Siegel
Imad Tabbara

PULMONOLOGY
Jalil Ahari
Morgan Delaney
Guillermo Gutierrez
Vivek Jain

RHEUMATOLOGY
Rodolfo Curiel
Mandana Hashefi
Nora Taylor
ENDOWED GRAND ROUND LECTURES

October 1st 2015: Understein Memorial Lecture - "Future of Medical Therapeutics"- Dr. Elliott Antman, Professor of Medicine, Associate Dean, Clinical and Translational Research, Harvard Medical School, Senior Physician, Cardiovascular Medicine, Brigham and Women's Hospital

May 5th 2016: Zimmerman Endowed Lecture - "Non-alcoholic Steatohepatosis"- Dr. Zobair Younossi, Professor of Medicine, Virginia Commonwealth, University, Inova Campus, Vice President, Research for Inova Health System, Executive Director, Center for Liver Diseases, Inova Fairfax Hospital

June 2nd 2016: Wipplinger Lecture- Best of Chairman’s Rounds, Dr. Maggie Gloria, PGY 3, and Dr. Paul Blair, PGY 3

June 16th 2016: Tamagna Endowed Lecture –"Preeclampsia: from Science to Medicine"- Dr. Ravi Thadhani, Professor of Medicine, Harvard Medical School, Executive Director, Clinical Trials Office at Partners Health Care, Chief of Nephrology Division, Massachusetts General Hospital
"WHAT YOU NEED TO KNOW ABOUT CANCER PREVENTION AND SCREENINGS" - WEDNESDAY, OCTOBER 14, 2015

Thomas W. Jarrett, MD, Professor and Chair, Department of Urology

Rachel F. Brem, MD, FACR, FSBI, Vice Chair of Radiology, Director, Breast Imaging and Intervention Center

Marie L. Borum, MD, EdD, MPH, Professor of Medicine Director, Division of Gastroenterology and Liver Diseases

Moderator: Alan Wasserman, MD, FACC, MACP, Chairman, Department of Medicine, Eugene Meyer Professor of Medicine

While maintaining a healthy lifestyle and avoiding risk factors are key to cancer prevention, early detection is one of the most important means to control cancer. That is why regular screenings – checking for cancer before there are signs or symptoms – are crucial to detecting cancer at an early stage, thus increasing the likelihood of successful treatment. Join us as GW physicians Thomas W. Jarrett, M.D., Rachel F. Brem, M.D., FACR, FSBI, and Marie L. Borum, M.D., Ed.D., M.P.H., explain how prostate screenings, mammographies, colonoscopies and other gastrointestinal screenings can find problems early and even save lives.
“ATTACKING CANCER ON MULTIPLE FRONTS: UNCOVERING NEW PATHS IN CANCER RESEARCH” - TUESDAY, DECEMBER 1, 2015

Eduardo M. Sotomayor, M.D., Director, GW Cancer Center, Professor of Medicine

Edward Seto, Ph.D., Associate Director for Basic Sciences, GW Cancer Center Professor of Biochemistry and Molecular Medicine

Moderator: Alan Wasserman, MD, FACC, MACP, Chairman, Department of Medicine, Eugene Meyer Professor of Medicine

While the toll of death and suffering caused by cancer is significant, important new breakthroughs in cancer research are changing the way we treat this group of diseases. Join us as our experts from the new GW Cancer Center reveal the innovative new ways cancer is being targeted and treated.

Eduardo M. Sotomayor, MD, Director of the GW Cancer Center and Professor of Medicine, will explain how harnessing the power of the immune system is providing major breakthroughs in cancer treatment. He will also discuss using engineered microorganisms as potential therapies.

Edward Seto, PhD, Associate director for basic sciences at the GW Cancer Center and Professor of Medicine, will explain how harnessing the power of the immune system is providing major breakthroughs in cancer treatment. He will also discuss using engineered microorganisms as potential therapies.

They will both discuss how the convergence of these two areas will impact cancer care in the future.

“HEALTHY AGING PART IV: MAINTAINING A HEALTHY NECK AND BACK” – TUESDAY, APRIL 5, 2016

Anthony Caputy, MD, FACS, Chair, Department of Neurological Surgery, Rizzoli Professor of Neurological Surgery

Raj Rao, MD, Chair, Department of Orthopaedic Surgery, Professor of Orthopaedic Surgery and Neurosurgery

Moderator: Alan Wasserman, MD, FACC, MACP, Eugene Meyer Professor of Medicine, Chairman, Department of Medicine and Chairman, Council of Clinical Chairs

Among the most common bodily complaints that come with aging is pain of the back and neck. As we get older, the discs that cushion the spine’s vertebrae undergo normal wear and tear, causing loss of flexibility, stiffness and pain.

While we can’t prevent aging, there are steps we can take to slow and minimize these negative effects. Learn more about maintaining a healthy neck and back with Raj Rao, M.D., chair of the Department of Orthopaedic Surgery and professor of orthopaedic surgery and neurosurgery, and Anthony Caputy, M.D., FACS, chair of the Department of Neurological Surgery and the Rizzoli Professor of Neurological Surgery, as they continue our series on healthy aging.
Summer is quickly approaching. As travelers prepare for the vacation season, concerns about the Zika virus and other health risks have many wondering if travel is safe this year. Join GW experts Aileen Y. Chang, MD, MSPH, assistant professor of medicine and assistant director for research at the GW Rodham Institute, and David M. Parenti, MD, professor of medicine and microbiology, immunology, and tropical medicine and director of the Travelers’ Clinic at The GW Medical Faculty Associates, as they discuss what precautions you can take to protect yourself against the Zika virus, malaria, and other infectious diseases that travelers may encounter this summer.
## DEPARTMENT OF MEDICINE: GROSS CHARGES

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FY16 (Annualized based on May)
# MEDICINE FEDERAL/FOUNDATION GRANTS FY 2016

## RENAL

<table>
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<th>GRANT NO</th>
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## CARDIOLOGY

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<td>Steven Farmer</td>
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# Medicine Federal/Foundation Grants FY 2016

## Rheumatology

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## Infectious Diseases

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## MEDICINE FEDERAL/FOUNDATION GRANTS FY 2016

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### MEDICINE FEDERAL/FOUNDATION GRANTS FY 2015

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24
FACULTY
Lawrence DuBuske, MD, Clinical Professor of Medicine
Richard Nicklas, MD, Clinical Professor of Medicine
Janine Van Lancker, MD, Assistant Professor of Medicine

VA FACULTY
Raghava Charya, MD, Assistant Professor of Medicine
Dipa Sheth, MD, Assistant Professor of Medicine

UPCOMING FACULTY
Anjeni Keswani, MD, Assistant Professor of Medicine
Jennifer Kannan, MD, Assistant Professor of Medicine

RESEARCH ACCOMPLISHMENTS
The following are some representative references of publications and presentations coming from our faculty.

Dr. Lawrence DuBuske, through his international collaborations, has presented numerous posters and abstracts at our two national meetings. These are attached.

Our biggest initiative is a national collaborative drug allergy study which I am organizing, involving eight leading academic allergy centers and the major commercial lab doing advanced immunology tests. We are applying for an NIH grant, which we are about to submit and which we have reason to believe has a high chance of acceptance. We see this as the beginning of a much larger and longer effort to organize an NIAID-sponsored drug allergy network of investigators.
CLINICAL ACCOMPLISHMENTS
There are more medical students and residents than ever taking electives in our clinic and continue to send one or more residents to Allergy Fellowships every year. Allergy has continued a steady stream of consultations at GWUH, providing a valuable addition to the services available at the hospital. Also, Allergy is getting more referrals from outside MFA as they become recognized as one of very few centers for clinical excellence in Allergy in the DC area.

EDUCATION ACCOMPLISHMENTS
As noted above, we are training increasing numbers of medical students and residents in Allergy and that has fueled increased interest in a number of them choosing a career in Allergy.

We are also in the third year of a very successful collaboration with NIAID by which we are the major clinical venue for training their Allergy Fellows in clinical Allergy. Each of their four first year Fellows spends three months with us. The feedback we get is that they are very happy with the experience. In turn, we are very impressed with their performance.

PUBLICATIONS
Dr. Richard Nicklas

ABSTRACTS
Dr. Lawrence DuBuske
- 13 abstracts presented in March, 2016 at AAAAI Annual Meeting in Los Angeles, California. All were published in “JACI”.
- 20 abstracts presented in June, 2015 at EAACI Annual Meeting in Barcelona Spain, all were published in “Allergy”.
- 12 abstracts presented in November 2015 at ACAAI meeting in Houston. All published in Annals of Allergy

PRESENTATIONS OF NOTE
- INTERASMA 23rd World Congress of Asthma, Madrid, Spain, March 14, 2016: ACAAI Symposium- “Toll Like Receptor Agonists as Adjuvants in Allergen Immunotherapy”
- INTERASMA 23rd World Congress of Asthma, Madrid, Spain, March 15, 2016: “Asthma Therapies as COPD Therapies: The Role of Cytokine Antagonists”
- ENT Grand Rounds- GWU- June 17, 2015: “Immunoadjuvants and Allergen Immunotherapy”

INDUSTRY RESEARCH

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FACULTY
William Borden, MD, Associate Professor of Medicine; Director of Healthcare Delivery Transformation
Andrew Choi, MD, Assistant Professor of Medicine and Radiology; Co-Director, Cardiac CT and MRI
Brian Choi, MD, Associate Professor of Medicine and Radiology; Co-Director, Advanced Cardiac Imaging
Steven Farmer, MD, Associate Professor of Medicine
Jannet Lewis, MD, PhD Professor of Medicine; Director, Non-Invasive Cardiology; Director, GW Women’s Heart Center
Lisa Martin, MD, Associate Professor of Medicine; Director, Lipid Clinic
Ramesh Mazhari, MD, Associate Professor of Medicine
Marco Mercader, MD, Associate Professor of Medicine
Christian Nagy, MD, Assistant Professor of Medicine
Gurusher Panjrath, MD, Assistant Professor of Medicine; Director, Heart Failure and Mechanical Circulatory Support Program

Jonathan Reiner, MD, Professor of Medicine; Director, Cardiac Catheterization Laboratories
Scott Shapiro, MD, Assistant Professor of Medicine; Director, Arrhythmia Services
Allen Solomon, MD, Professor of Medicine; Director, Cardiology Fellowship; Director, CCU
Alan Wasserman, MD, Eugene Meyer Professor of Medicine
William Weglicki, MD, Professor of Medicine; Professor of Biochemistry and Molecular Biology

PAs/NPs
Karen Barr, NP
Linda Bostrom, NP
Monique Nylund-Alm, NP
Helma Parikh, NP
Kelli Metzger, RD

CARDIOLOGY

RICHARD KATZ, MD
Bloedorn Professor of Medicine, Division Director

CYNTHIA TRACY, MD
Professor of Medicine, Associate Director
CARDIOLOGY

RESEARCH
The Cardiology Division has had a productive year in the area of research. We have several ongoing and new grants. Dr. Katz is completing year 3 of his PCORI grant and Dr. Farmer continues his RO1 as well as his work on health policy at Duke University. New funding includes an NIH SBIR (Mercader), NIH SBIR subcontract (Choi/Katz), and Aetna Foundation grant (Panjrath/Katz). In addition, our Heart and Vascular Institute provided over $50,000 funds for internal investigator-initiated research focusing on fellow and new faculty projects. The cardiology faculty has published and presented over 30 manuscripts and abstracts. Research areas span heart failure, cardiac imaging, cardiac arrhythmias, women’s heart health, coronary artery disease, population health and health policy. These projects included co-authorship with GW residents, fellows and students. Presentations were at major national meetings including the American Heart Association, American College of Cardiology, Heart Rhythm Society, SCAI, American Society of Echocardiography and the European Valve Summit.

CLINICAL
Clinical accomplishments have extended our high quality cardiac care. The TAVR program has grown dramatically with over 60 cases completed this year. Our new faculty member, Andrew Choi, has been an excellent addition to our division working closely with Radiology to increase advanced cardiac imaging with MRI and CT. Our STEMI door-to-balloon time has been outstanding with >90% patients treated in less than 90 minutes. Our innovative heart failure 30 day readmission program using community health workers has exceeded all expectations. This past year 30 day readmissions fell from over 20% to 11%. This data was presented at the American College of Cardiology in March 2016 and is the basis for a new NHLBI research grant submission in fall 2016.

EDUCATIONAL
Educational programs in the Cardiology Division remain robust with 11 current cardiology fellows. These training programs are under the leadership of Al Solomon (general cardiology fellowship), Ramesh Mazhari (interventional cardiology fellowship), and Cynthia Tracy (electrophysiology fellowship). We continue our weekly catheterization, noninvasive, EKG, and heart failure conferences and added a biostatistician, Heather Young, to our biweekly journal club. The GW Heart and Vascular Institute sponsored 3 visiting professors for our Cardiology and Medical Grand Rounds. Fellows have had new opportunities with electives in vascular ultrasound and pulmonary hypertension.

We have strengthened our relationship with the Inova Cardiology program with plans to consider expanding our fellowship. For medical students, Dr Panjrath updated and organized a highly successful Cardiovascular 1st year course. Dr. Mercader expanded his highly popular EKG elective to 80 students and supervised our Cardiology elective for nearly 30 students. Drs. Mercader and Panjrath organized our 2nd annual Heart Failure/Cardiac Arrhythmia CME symposium featuring the GW faculty.

Service has been another mission for our Cardiology Division. We conducted our 6th annual Honduras mission, volunteered at Food and Friends, provided our nutritionist for free to DC community clinics, and pushed forward with a bill to promote AEDs. Each month we send an electronic newsletter to over 12,000 patients highlighting our recent accomplishments. We also produced our 2015 Heart and Vascular Institute Annual Report and raised over $500,000 for new programs.
GW HEART AND VASCULAR INSTITUTE FACULTY RESEARCH FY 2015

Young Investigator Pilot Research Funded by the Institute $62,500

Research Funded by Federal/Foundation/Industry Grants:
Federal Grants $2,929,976
Foundation Grants $2,280,761
Medical Industry Grants $36,906

Total Research Grant Support $5,310,143

INTERNATIONAL WORK
Honduras - Dr. Cynthia Tracy (Cardiology) and colleagues travel every summer to Honduras. During the two week mission, the GW team evaluates heart failure and arrhythmia patients, implanting free pacemakers and defibrillators in at risk patients. Since 2010, Dr. Tracy has acquired more than $2.5 million in donated heart devices.

AWARDS
Dr. Andrew Choi, Cardiology, received the Young Investigator Award at the Society of Cardiovascular CT annual meeting in Las Vegas, NV on his paper, “Coronary Artery Calcium Scoring on 320 Detector Row CT Demonstrates Low Interscan Variability at Standard and 70% Reduced Radiation Dose.”

Dr. Cynthia Tracy participated in writing the 2015 ACC/AHA/HRS Guideline for the Management of Adult Patients with Supraventricular Tachycardio.

Drs. Ju Kim and Gurpreet Sodhi, Cardiology Fellows, were awarded the 2015-2016 GW Heart & Vascular Institute’s Young Investigator Pilot Research Award.

Dr. Gurusher Panjrath, Cardiology, was invited to serve as a member of the Academic Cardiology Section Leadership Council for the American College of Cardiology.

Dr. Marco Mercader, Cardiology, was honored by the University of Puerto Rico. The Association of University of Puerto Rico Alumni and Friends Abroad (UPRAA) presented Dr. Mercader the UPRAA’s Excellence and Achievement Award for outstanding accomplishments in Medicine.

• Schnatz, PF, Martin LW, et al. Calcium/Vitamin D (CaD) Supplementation, Serum 25(OH) Vitamin D Concentrations, and Cholesterol Profiles in the Women’s Health Initiative CaD Randomized Trial. Menopause. 2014; 21 (8):823-833.


• Mazhari R, Torna IV. Immunogenic aspects of stem cell therapy in regenerative medicine. MJHS. 2014 Jan; 23.


ABSTRACTS


• Alhamoud HA, Dudum R, Young HA, CHOI BG. Author self-disclosure compared to pharmaceutical company reporting of physician payments. American Journal of Medicine. 2015; pii:2015.06.028.


• TRACY CM. Debate entitled Only Patients with Left Bundle Branch Block Should Receive CRT- Antagonist. Heart Rhythm Society. May 2015; Boston, MA.

• Sadri M, NAGY C, Chawla M, REINER J, MAZHARI R. Avoiding the Low road. Cath access site and acute kidney injury. SCAI. 2015; San Diego, CA.


## INDUSTRY RESEARCH

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FACULTY
Suzanne Adler, MD, Associate Clinical Professor of Medicine
Nicole Ehrhardt, MD, Assistant Professor of Medicine
Michael Irwig, MD, Associate Professor of Medicine; Director, Andrology
Nisha Nathan, MD, Assistant Professor of Medicine
Jill Paulson, MD, Assistant Professor of Medicine
Sabyasachi Sen, MD, MRCP, Associate Professor of Medicine; Associate Professor, Anatomy and Regenerative Medicine

VA FACULTY
Shikha Khosla, MD, Assistant Professor of Medicine
Eric Nylen, MD, Professor of Medicine
Shruti Gandhi, Assistant Professor of Medicine

NP/EDUCATOR
Su Chin, NP
Diana Daniel, CDE

RESEARCH
The Endocrine Division faculty and fellows have continued their research programs with focuses on: diabetes and obesity, vascular biology, stem cells, mobile health, male hypogonadism and transgender care. This year, all of the endocrine fellows had abstracts presented at the Endocrine Society Annual Meeting. Division faculty also presented research findings at the American Diabetes Association Annual Meeting and at the 2015 International Thyroid Congress. Dr. Nicole Ehrhardt, Assistant Professor of Medicine, has continued her research on family-centered approaches for treatment of obesity. Dr. Ehrhardt this year was awarded a Redstone grant by the GWU School of Public Health as Co-Principal Investigator for the study “Effect of a communication-bolstered diabetes prevention program lifestyle intervention in young obese African-American maternal caregivers and their children.”
Dr. Sen has continued his research program in vascular biology and endothelial and mesenchymal stem cells. During this past year he was the recipient of a new investigator-initiated grant award from Janssen Pharmaceuticals: “Role of canagliflozin on gene expression and function of CD34+ endothelial progenitor cells in patients with type 2 diabetes and mild chronic kidney disease.” In addition to studies conducted in his own laboratory and in collaboration with researchers in the Department of Pharmacology and Physiology, Dr. Sen also has active collaborations with researchers at the NIH and at the Washington DC Veterans Affairs Medical Center. Dr. Sen was the recipient of a patent “P53-silenced endothelial progenitor cells for diabetes” and has a patent pending for “Genetic modification of human mesenchymal stem cells helps to reduce adiposity and improve glucose tolerance in an obese diabetic mouse model.”

Dr. Joshua L. Cohen, Professor of Medicine, has continued his research studies involving novel applications of advanced technology to diabetes care. He is currently collaborating with Dr. Richard Katz (Division of Cardiology) on a multicenter trial “Changing the healthcare delivery model: a community health worker/mobile chronic care team strategy” funded by the Patient Centered Outcomes Research Institute (PCORI) to evaluate the impact on diabetes outcomes measures of deploying a combination of mobile health systems and community health workers in communities in Washington DC.

Dr. Irwig has continued his research on male hypogonadism. This year he published a study on depression and depressive symptoms in men referred for evaluation of borderline testosterone levels. Dr. Irwig also published an authoritative review article on testosterone therapy for transgender men.

**EDUCATION**

Endocrine Division faculty members have had an active role in many components of undergraduate medical education at GW. Division faculty serve as instructors in the Clinical Skills and Reasoning course and the Professional Development program. They also mentor CAP students. This year the Endocrinology and Reproductive Medicine module for second year medical students was completely revised and introduced to very strong positive feedback from the medical students. This curriculum module incorporates real-time student responses, patient panels, hands-on workshops and team learning exercises to encourage active student involvement throughout. Medical students also rotate on the Endocrine Service both during their primary care rotation and as a clinical elective. In addition to GW students, the Clinical Endocrinology elective also attracted visiting students from other U.S. medical schools as well as international students from India, Japan, Palestine, Saudi Arabia and Spain. Endocrine faculty are also active in Graduate and Post-Graduate Medical Education. The Division has 5 endocrinology fellows in their 2 year training program. This year, the Endocrine Division was presented with the 2015 Residents Rocked the Boards Award, recognizing the division in the subspecialty in which the GW medicine residents performed the best on the ABIM board certification exam.
CLINICAL ACTIVITIES
The division now has clinics at three locations: the MFA Pennsylvania Avenue and M Street sites and in Rockville, Maryland. Patient volume is increasing, there has been a 4.2% increase in patients arriving for appointments and 11.4% increase in new patient appointments compared to the previous year; net collections have increased by 16.1%.

This year the Endocrine Division welcomed Diana Daniel RN, CDE and Su Chin RN, NP, CDE to our clinical staff; they will focus on expanding comprehensive care for patients with diabetes, including diabetes and nutritional education, diabetes care in pregnancy, insulin pump therapy and continuous glucose monitor utilization. Also, analysis of thyroid fine needle aspiration samples has expanded to include next-generation gene sequencing and/or gene expression analysis where clinically appropriate.

Division faculty have participated also in community outreach programs. For example, Dr. Ehrhardt organized free HbA1C screening and nutrition and exercise counseling at the Barry Farm Community health Fair. Dr. Ehrhardt is also a volunteer physician at the Arlington Free Clinic.

AWARDS
Dr. Michael S. Irwig, Endocrinology, who was elected President of the Mid-Atlantic Chapter of the American Association of Clinical Endocrinologists (AACE).
Dr. Sabyasachi Sen, Endocrinology, application was approval for Fellowship in the Royal College of Physicians (Edinburgh).

PUBLICATIONS
- Westley CJ, Amdur RL, **Irwig MS**, High Rates of Depression and Depressive Symptoms among Men Referred for Borderline Testosterone Levels., The journal of sexual medicine, 2015 Aug, 12, 1753-60, 10.1111/jsm.12937 [doi], S1753-6095(15)34888-6 [pii]
- Premji R, Joshi AS, **Paulson JM**, A Tale of Two Tumors and a Misleading FNA, Endocrine Society, 2016 Apr
BOOK CHAPTER

INDUSTRY RESEARCH

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CLINICAL ACTIVITIES
The Division of Gastroenterology and Liver Diseases increased patient encounters for office visits and endoscopic procedures by optimizing appointment access. This was accomplished through physician engagement and improved efficiency. A divisional model was developed and implemented. Individual and aggregate clinical activity was monitored. A trajectory was assessed and projections were exceeded.

Clinical Productivity
There was an increase of 39% in office visits and 25% in procedure volume achieved through a process of template standardization, optimization of endoscopy capacity utilization and monthly monitoring of individual productivity. Increased clinical activity occurred through physician collaboration during weekly meetings that allowed for physician engagement and reinforcement of goals. Meetings incorporated nonjudgmental discussions and information sharing which allowed for identification of opportunities and challenges. There was frequent and specific guidance offered to those not meeting productivity expectations. Goal setting occurred without administrative or financial incentives.
Office visits
Office activity increased by 39%, with monthly increase in activity noted in figure 1. Divisional template for office visits was developed recognizing external and internal factors impacting MFA health care delivery. Expectations were established and accepted. Office staff were informed of divisional goals and supported activity. Physician activity was monitored, with adjustment of office capacity and voluntary opening of clinic appointments during administrative time to meet physician and divisional monthly goals. Specific guidance offered to those to enhance and sustain productivity.

Endoscopy
Procedure activity increased by 25%, with monthly increase noted in figure 1. Divisional template was established for utilization of procedure time, based upon individual office activity. Collaborated with hospital to develop and implement processes to optimize utilization of endoscopy capacity. This included establishment of a standard 7:30 am start time for endoscopic procedures, addressing factors that impact on-time starts, minimization of short term and same day cancellations by strategic timing and content of pre-registration calls, educational activities with pre-registration staff to ensure consistency in patient instructions. There has been tracking of activity and assessment of procedure turn-over time to identify and correct bottlenecks.

Figure 1

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<tr>
<td>September</td>
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<td>October</td>
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<tr>
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<td>32%</td>
</tr>
<tr>
<td>January</td>
<td>41%</td>
<td>31%</td>
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<td>February</td>
<td>57%</td>
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<td>March</td>
<td>47%</td>
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<td>April</td>
<td>35%</td>
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<tr>
<td>May</td>
<td>37%</td>
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<tr>
<td>June</td>
<td>93%</td>
<td>49%</td>
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<tr>
<td>Total FY16</td>
<td>42%</td>
<td>28%</td>
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QUALITY IMPROVEMENT
Care Delivery
There was recognition of the need to decrease wait time for new appointments to maintain and enhance patient base. Increased productivity was leveraged to decrease wait time for office appointments. Prior to implementation of divisional productivity plan, office wait time on July 1, 2015 was determined to be 65 business days. Modelling, based upon clinical productivity expectations, and resulted in projections for a decrease in the wait time for new patient appointments. On June 1, 2016, wait time was 19 days. This change represented a 71% decrease in patient wait time for appointments (Figure 2).

Figure 2

Wait time to new patient visit, business days
Clinical Collaboration and Innovation
Division of Gastroenterology and Liver Diseases developed collaborative and innovative clinical activities with other specialties and departments. These included establishment of regional expertise in a new endoscopic procedure, creation of a maternal-fetal medicine and GI program for high risk pregnancies, and collaboration with the Ruth Paul Hereditary Cancer Program of the Division of Hematology and Oncology.

Peroral Endoscopic Myotomy
Peroral Endoscopic Myotomy (POEM) has been developed in the context of natural orifice transluminal endoscopic surgery as a minimally invasive procedure that is used for treatment of achalasia. There are few institutions with the expertise, with only approximately 35 centers in the nation performing the procedure. The Division of Gastroenterology and Liver Diseases in collaboration with the Department of Surgery has established regional expertise in this procedure, performing more than any other institution in the Washington, D.C. area.

Additionally, the endoscopic expertise established for the treatment of achalasia, resulted in the only reported performance of endoscopy pyloric myotomy in the nation. Notably, GW was featured at the American College of Gastroenterology for successfully applying the endoscopic technique and advancing treatment for refractory diabetic gastroparesis.

EDUCATION
Educational efforts have expanded in volume, scope and quality in the medical school, internal medicine residency, and gastroenterology fellowship settings. Innovations in training were implemented in the fellowship training program. The educational activities have extended to include endoscopic education to the Department of Surgery. The faculty physicians were integral in the newly developed gastroenterology curriculum in the Physician Assistants program.

Medical School
The gastroenterology curriculum was restructured and revised to reflect the LCME requirements of increased clinical focus, case-based teaching, with utilization of varied didactic techniques. The entire faculty was involved in revising the curriculum. The lectures were well received by the medical students who offered uniformly positive evaluations.

Members of the faculty have longitudinal commitments to small group education of pre-clinical students. Additionally, members of the division have supervised 8 CAP students and 6 practice of medicine (POM) students throughout the year. Research opportunities have also been offered to the medical students through a clinical and research elective. During the past year, medical students have been co-authors of 19 abstracts, 2 medical algorithms published in textbooks, 4 book chapters and 2 refereed manuscripts. The medical students presented their research at GW Research Day the American College of Gastroenterology annual meeting and the annual Advances in Inflammatory Bowel Disease conference. Two student-abstracts were among the 20 selected as featured abstracts from >2500 submitted abstracts at the American College of Gastroenterology annual meeting.
GASTROENTEROLOGY

Internal Medicine Residency
Research opportunities for internal medicine residents. During the past year, internal medicine residents have been co-authors of 20 abstracts, 1 algorithm published in a textbook, 4 book chapters and 1 refereed manuscript. The internal medicine residents presented at regional conferences, Digestive Disease Week, American College of Gastroenterology, the annual Advances in Inflammatory Bowel Disease and the International Conference on Coagulopathy of Liver Diseases. Two of the abstracts presented by internal medicine residents were poster award winners.

Gastroenterology Fellowship
Gastroenterology division has 7 current fellows under the leadership of Dr. Matthew Chandler. The entire gastroenterology curriculum was revised to optimize learning through self-study, didactic lectures, multidisciplinary seminars, enhanced endoscopic education. The program developed and implemented an academic half-day, which consolidates faculty-led teaching in the quantifiable didactic time free of service responsibilities. The fellows are also excused from clinical responsibilities (which are then covered by faculty) to enhance learning.

The Division of Gastroenterology developed and formalized a mentorship program to guide and monitor progress through the fellowship. The assigned one-on-one mentorship program is unique, with no other program in the nation incorporating a similar program within their fellowship. The program has been well received by the fellows. Information about mentoring within gastroenterology training was published and presented at the American College of Gastroenterology and at the Innovations in Medical Education.

Research opportunities are available for the fellows in the Division of Gastroenterology and Liver Diseases. During the past year, the gastroenterology fellows have been co-authors of 13 abstracts, 7 algorithms published in a textbook, 13 book chapters and 2 refereed manuscript. The internal medicine residents presented at regional conferences, Digestive Disease Week, American College of Gastroenterology, the annual Advances in Inflammatory Bowel Disease and the International Conference on Coagulopathy of Liver Diseases.
RESEARCH
The Division of Gastroenterology and Liver Diseases is developing a research focus that concentrates on colonoscopy outcomes, inflammatory bowel disease and health care disparities. The collaborative research activities have involved students, internal medicine residents, and gastroenterology fellows. There has been collaboration with the members of the Department of Surgery and the Rodham Institute. Additionally, members of the division are involved on the national level, with the development of an ergonomics research project for the American Gastroenterological Association.

During the Division of Gastroenterology and Liver Diseases published 41 abstracts, 7 algorithms, 14 book chapters and 7 refereed manuscripts. There were 6 regional presentations, 30 national presentations, and 1 international presentation. Two were selected as featured abstracts at a national medical conference and 4 were selected as poster winners.

PUBLICATIONS
- **Drs. Tim Dougherty, Marie Borum, Gastroenterology; Dr. Justin Ertle, PGY 2; Dan Gaballa and Shreya Chablaney, medical students, on their abstract, Primary Care Providers are Vital to Carrying out Hepatitis C Screening,” being accepted for presentation at the American College of Physicians Annual Meeting, May 2016.
- **Chandler M, Borum ML**, Effects of implementing 1-on-1 Mentorship on Development of Medical Knowledge in a Gastroenterology Fellowship Program. American Journal of Gastroenterology 110 (supplement 1); S965, October 2015.
- **Chandler M, Borum ML**, Mentorship Programs Can Provide an Opportunity to Enhance Fellowship Education in ACGME Core Competencies. American Journal of Gastroenterology 110 (supplement 1); S966, October 2015.
- **Borum ML, Chandler M**, Learning from the Mentee: A Potentially Underappreciated Outcome of Faculty Mentoring in Gastroenterology Fellowship Programs. American Journal of Gastroenterology 110 (supplement 1); S971, October 2015.
- **Borum ML, Chandler M**, Gastroenterology Faculty and Fellows Identify the Benefits of a Mentoring Program. American Journal of Gastroenterology 110 (supplement 1); S971-972, October 2015.
- **Lattimer L, Chandler M, Borum ML**, Hispanics and Inflammatory Bowel Disease. Inflammatory Bowel Diseases 2015 May: 21 (5): 1214-1218. DOI: 10.1097
- **Chia R, Borum ML**, African Americans May Access the Emergency Department for Inflammatory Bowel Disease Care More Often Than Whites. Inflammatory Bowel Diseases 2015 August 21 (8):E14.
- **Davis J, Rieders B, Borum ML**, Clinical Practice Patterns Suggest Female Patients Prefer Female Endoscopists. Digestive Diseases and Sciences 2015 Oct, Vol 60 (10); 3149-3150.

BOOK CHAPTERS
**ABSTRACTS**


**GASTROENTEROLOGY**

- Taneja S, Hejazifar N, **Dougherty T, Borum ML**, There are eyes in team -- and they affect adenoma detection. American Journal of Gastroenterology 110 (supplement 1); S619, October 2015.
- Taneja S, Hejazifar N, **Dougherty T, Borum ML**, Gastroenterology fellows are effective in preventing colorectal cancer by colonoscopy. American Journal of Gastroenterology 110 (supplement 1); S614, October 2015.
- Nesserdedine S, Taneja S, Hejazifar N, **Dougherty T, Borum ML**, Obesity does not increase adenoma prevalence: Patients should be encouraged to pursue colonoscopy. American Journal of Gastroenterology 110 (supplement 1); S617, October 2015.
- Hajazifar N, Taneja S, **Ali MA, Borum ML**, Adenoma Detection Rate May Decline for Screening Colonoscopy Cases Performed Late in the Day. American Journal of Gastroenterology 110 (supplement 1); S676, October 2015.
- Hajazifar N, Taneja S, **Ali MA, Borum ML**, Adenoma Detection Rate Does Not Differ in Screening Colonoscopies Performed in the Morning or Afternoon. American Journal of Gastroenterology 110 (supplement 1); S672, October 2015.
- Bashir S, Prakash P, Wazzan M, Alabas B, **Borum ML**, A Rare Presentation of an Aortoenteric Fistula After Aneurysm Repair. American Journal of Gastroenterology 110 (supplement 1); S471, October 2015.


• Rieders B, Davis J, Lettimer L, Khanijow Y, Taneja S, Myint A, Al-Shahrani AA, Nesserdine S, Borum ML. A high stakes learning environment. Fellow-performed colonoscopies are associated with Lower ADRS. University of Virginia Annual Conference of Liver Disease and Gastroenterology.

GENERAL INTERNAL MEDICINE

APRIL BARBOUR, MD, MPH
Associate Professor of Medicine, Division Director

2150 PENNSYLVANIA AVENUE FACULTY
Sharon Baratz, MD, Assistant Professor of Medicine
Kaylan Baban, MD, Assistant Professor of Medicine
Benjamin Blatt, MD, Professor of Medicine
Elena Boley, MD, Associate Clinical Professor of Medicine
Letitia Carlson, MD, Assistant Clinical Professor of Medicine
Jillian Catalanotti, MD, Associate Professor of Medicine
Aileen Chang, MD, Assistant Professor of Medicine
Michael Czarnecki, DO, Associate Professor of Medicine
Jehan (Gigi) El-Bayoumi, MD, Professor of Medicine
Andrea Flory, MD, Assistant Professor of Medicine
Gregg Furie, MD, Assistant Professor of Medicine
Marijane Hynes, MD, Clinical Professor of Medicine
Robert Jablonover, MD, Assistant Professor of Medicine
Vimala Jayanthi, MD, Assistant Professor of Medicine
Seema Kakar, MD, Associate Clinical Professor of Medicine
Sheena P. Khurana, MD, Assistant Professor of Medicine
Mia Marcus, MD, Associate Clinical Professor of Medicine
Chad Henson, MD, Assistant Professor of Medicine
Matthew Mintz, MD, Associate Professor of Medicine
Brad Moore, MD, Associate Professor of Medicine
Chavon Onumah, MD, Assistant Professor of Medicine

2300 M STREET INTERNAL MEDICINE PHYSICIANS
Natasha Ang, MD, Assistant Clinical Professor of Medicine
Elizabeth Bluhm, MD, Assistant Clinical Professor of Medicine
Catherine Boinest, MD, Assistant Professor of Medicine
Bonita Coe, MD, Associate Clinical Professor of Medicine
Robert Kruger, MD, Associate Clinical Professor of Medicine
Amirala Pasha, DO, Assistant Clinical Professor of Medicine
(Faculty appointment effective 7/1/16)
Farzana Walcott, MD, Assistant Professor of Medicine
Maram Alkhatib, MD, Clinical Instructor of Medicine

Mihir Patel, MD, Assistant Professor of Medicine
David Popiel, MD, Assistant Professor of Medicine
Adam Possner, MD, Assistant Professor of Medicine
W. Scott Schroth, MD, Associate Professor of Medicine
Paul Silver, MD, Associate Professor of Medicine
Amy Stone, MD, Assistant Professor of Medicine
Zohray Talib, MD, Associate Professor of Medicine
Ginger Winston, MD, Associate Professor of Medicine
VA FACULTY
Charles Faselis, MD, Professor of Medicine, Chair VA Department of Medicine
Cherinne Arundel, MD, Assistant Professor of Medicine
Ribka Ayana, MD, Assistant Professor of Medicine
Natalie Branagan, MD, Assistant Professor of Medicine
Daniel Chen, MD, Assistant Professor of Medicine
Katherine Chretien, MD, Assistant Professor of Medicine
James Croffoot, MD, Assistant Professor of Medicine
Shruti Gandhi, MD, Assistant Professor of Medicine
Jennifer Kerns, MD, Assistant Professor of Medicine
Jessica Logan, MD, Assistant Professor of Medicine
Samantha McIntosh, MD, Assistant Professor of Medicine
Dragica Mrkoci, MD, Assistant Professor of Medicine
Nazia Qazi, MD, Assistant Professor of Medicine
Joanna Rosen, MD, Assistant Professor of Medicine
Shaman Singh, MD, Assistant Professor of Medicine
Elizabeth Trimble, MD, Assistant Professor of Medicine
Matthew Tuck, MD, Assistant Professor of Medicine
Victor Wu, MD, Assistant Professor of Medicine

NPs/PAs
Cameron Hogg, NP
Elizabeth Kirby, NP
Alison Donovan, NP
Elizabeth Hatcher, NP
Erica Deam, NP
Jane Wu, PA
Joanna Milder, PA
Natalie Nicolas, RD
Lauren Leatherman, LICSW
Shelleta Pleasant, LICSW

MASTER TEACHER LEADERSHIP DEVELOPMENT PROGRAM CANDIDATE
Lalit Narayan, MD, Visiting Instructor of Medicine

GWUH CHIEFS FY 16
Erin Vipler, MD
Jessica Davis, MD
Courtney Paul, MD
Yevgeniy Vayntraub, MD, VA Chief
Adam Kittai, MD, VA Chief
Mortada Shams, MD, Fairfax Chief

DGIM has had another excellent year and contributed substantially to the mission of the University in education, scholarship and service. While we are primarily Clinician Educators, our newly hired Clinician Investigators are starting to be productive.

EDUCATION/TEACHING
Preclinical: Currently 17 faculty teach in the first year course, second year course or both. CSR is an intensive small group discussion based course that meets weekly. Faculty facilitate discussions, manage learning sessions, directly observe physical exam and communication skills and provide ongoing feedback and instruction over the course of 16 months. Five faculty teach in the Professional Development course (which is also a small group, discussion based course).

Clinical: Thirteen faculty precept students during one or more of their clinics during the 4 week- primary care clerkship. Seventeen faculty (only 2 of which also precept in the clerkship) mentor students in the Longitudinal Primary Care Curriculum, which is a yearlong commitment to have a student in clinic ½ a week.
GRADUATE MEDICAL EDUCATION
Clinical Competency Committees: Five faculty serve on one of the three CCCs, one of whom chairs a committee (Dr. Henson). These faculty are responsible for reviewing the evaluations of their assigned residents (5-6) and presenting them to the committee. They also meet with each of their residents twice yearly to review their progress and set individual goals.

Clinic Preceptors: Eighteen faculty precept in resident clinic 1-3 times a week. They are responsible for directly observing their residents and providing immediate feedback in clinic. They also provide summative evaluations twice yearly. They all participate in weekly didactics on a rotating schedule.

Ambulatory Curriculum: overseen by Dr. Barbour with the chief resident.

Recurring didactic content:
• Primary Care Journal Club, Dr. Barbour, Dr Khurana and Dr. Burstin, weekly
• Intern Curriculum: Dr. Henson 5-6 core lectures given weekly to entire intern class
• Medical Education Series, Dr. Barbour, Dr. Henson, 2 workshops each year
• Physical Diagnosis Series, Dr. Silver, 2 workshops each year.
• Community Health Curriculum, Dr. Popiel 1 -2 workshops a year
• Cancer Survivorship Curriculum, Dr. Barbour, 1 workshop a year
• HIV in Primary Care Curriculum, Dr. Onumah, Dr. Henson (in development)
• Medical Legal Partnership Curriculum, Dr. Barbour with DC Legal Aid (in development)

SCHOLARSHIP / RESEARCH
Clinician Investigators: All 3 of the physicians hired in the past 2 years as Clinician Investigators in DGIM have successfully received small pilot grants/ funding and are well prepared to apply for larger grants.
• Dr. Winston has had several publications based on her work in social networks.
• Dr. Walcott won a prestigious young investigator award from ASCO and has brought together faculty from SMHS and SPH to form a research interest group.
• Dr. Chang has developed an international network related to vector borne illnesses.
• Dr. Talib has had a number of publications in the past year through her work in global health.
• Both Dr. Walcott and Dr. Winston have received secondary appointments in the School of Public Health.

Grants
Congratulations to...
• Dr. Aileen Chang, General Internal Medicine, on her grant from the Rheumatology Research Foundation titled, “A Pilot Study of the Pathogenesis of Chikungunya Arthritis in the Americas”.
• Dr. Farzana Walcott, General Internal Medicine, on her grant from the Conquer Cancer Foundation titled, “Metabolomics Profiles of Metformin Treatment in Li-Fraumeni Syndrome”.

GENERAL INTERNAL MEDICINE
CLINICAL INNOVATIONS

Hospital Discharge Clinic: Weekly resident run clinic staffed by Dr. Henson. This clinic is available to all DGIM patients who are recently discharged but also GWU Hospital patients that are deemed high risk for readmission. The curricular component for the residents focuses on good transitions and safe discharges.

Pre-op Clinic: Weekly resident clinic staffed by Dr. Patel. This clinics focuses on peri-operative management and pre-operative risk stratification and testing and is open for all DGIM patients.

Cancer Survivorship Clinic: This clinic focuses on providing a Survivorship Care Plan for all patients within 6 month of completing treatment. As part of this clinic, we have developed a Survivorship Research Interest group of clinicians and scientists across the Medical Center. Dr. Czarnecki works in the Thriving after Cancer (TAC) clinic which sees adult survivors of pediatric cancers and is a collaborative effort with CNMC. Dr. Walcott works with Elizabeth Hatcher, NP in the Adult Survivorship clinic and attends all the Cancer Committee meetings as part of that effort.

Weight Management Clinic: Dr. Hynes is the clinic director.

Preventive Medicine Clinic: Dr. Baban has 2 clinics a week focusing on stress management, smoking cessation, lifestyle interventions and dietary interventions.

AWARDS

Dr. Robert Wilkinson was selected to receive the Outstanding Volunteer Clinical Teacher Award from the American College of Physicians.

Dr. Richard Simons, Professor of Medicine and Senior Associate Dean for MD Programs at the GWSMHS, has been elected to serve a two-year term as Regent of the American College of Physicians.

Dr. Brandon Rieders, PGY 2, who won the award for the best poster at the Annual Conference of Liver Disease and Gastroenterology at the University of Virginia.

Dianne Thompson, MD, Internal Medicine resident, and Sheena Khurana, MD, Internal Medicine faculty, were awarded the 2015 Rodham Institute Academic Community Collaborative Award for with Wholesome Waves, “Empowering Physicians to Address Health Disparities Related to Food Insecurity”. Wholesome Waves is a National non-profit organization dedicated to providing a just and sustainable food system.

Congratulations to Joseph Delio, MD, PGY 2, as he was awarded the GME Research, Quality Improvement Award for his work, “Improving adherence to the United States Preventive Services Task Force screening and immunization guidelines among residents at the internal medicine clinic with the GWU MFA group”.

50
Dr. Suneeta Ganji, PGY3, will be celebrated at the American College of Physicians Internal Medicine Meeting in May as a Young Achiever. This is a great achievement, especially for a young achiever.

Dr. Catherine Boinest, General Internal Medicine, was awarded the 2015 Vitals Patients’ Choice Award.

Dr. Farzana Walcott, General Internal Medicine, was selected to receive a 2016 Young Investigator Award from the American Society of Clinical Oncology (ASCO).

Dr. Andrea Flory, General Internal Medicine, won a Distinguished Teacher Award from the Medical School.

ACP NATIONAL 2016 AWARD WINNERS

Carole E. Horn, MD, Associate Clinical Professor, awarded the Ralph O. Claypoole Sr. Memorial Award for Devotion of a Career in Internal Medicine to the Care of Patients, this award is given to an outstanding practitioner of internal medicine who has devoted his or her career to the care of patients.

Alan W. Stone, MD, FACP, Clinical Professor, awarded the Arnold P. Gold Foundation ACP Award for Medical Humanism, this award is given to someone who demonstrates compassion and empathy in the delivery of patient care; shows respect for patients, families and co-workers; demonstrates cultural sensitivity in working with patients and family members of diverse backgrounds; and engenders trust and confidence.

Robert S. Wilkinson Jr., MD, MACP, Professor Emeritus, awarded the Outstanding Volunteer Clinical Teacher Award, this award is given to someone who consistently volunteered his or her services to teach medical students and residents outside of his or her academic responsibilities. This individual should have demonstrated outstanding teaching prowess, displayed exemplary characteristics of care and concern for individual patients at the bedside, and served as a role model and mentor.

ACP DC CHAPTER MEETING, SPRING 2015

Drs. Lei Lynn, PGY 1, Erica McBride, PGY2, and Omar Siddique, PGY 2, took home 1st place prizes for podium presentations in the categories of research and in clinical vignettes.

Dr. Steven Quinn, PGY3, won the award for best GW research poster

Drs. Betsy Kidder, PGY1, Nika Safaie, PGY2, and co-author Niharika Tipirneni, PGY3, tied to win the award for best GW clinical vignette poster.

PUBLICATIONS

- Dr. Ginger Winston, Division of General Internal Medicine, manuscript. “The Relationship between Social Network Body Size and the Body Size Norms of Black and Hispanic Adults” was published in Preventive Medicine Reports Journal.
- Drs. Talal Alzahrani, PGY2, Dana Kay, PGY2, Saeed Alqahtani, Neurology resident, Yamane Makke, Neurology resident, Linda Lesky, Hospital Medicine, and Mohamad Koubeissi, Neurology, published “Levetiracetam-induced Pancytopenia” in Epilepsy & Behavior Case Reports.
- Drs. Kanika Gupta, PGY2, and John Tiu, PGY1, for having their manuscript, “The promising role of nivolumab in renal cell cancers,” accepted for publication in Cancer Biology & Therapy.
GERIATRICS AND
PALLIATIVE CARE

KATALIN ROTH, MD, JD
Associate Professor of Medicine, Division Director

FACULTY
Tania Alchalabi, MD, Assistant Professor of Medicine
Danielle Doberman, MD, Assistant Professor of Medicine; Director, Palliative Medicine Program; Assistant Fellowship Director, Palliative Medicine
Robert Jayes, MD, Associate Professor of Medicine; Medical Director, House Call Program
Mikhail Kogan, MD, Assistant Professor of Medicine; Medical Director, GW Center for Integrative Medicine
Angela Lee, MD, Assistant Clinical Professor of Medicine - Promoted to Associate Clinical Professor of Medicine 7/1/16
Tahira Lodhi, MD, Assistant Clinical Professor of Medicine
Christina Prather, MD, Assistant Professor of Medicine
Leslie Pierce, MD, Associate Clinical Professor of Medicine
Christina Puchalski, MD, Professor of Medicine; Director, GW Institute for Spirituality and Health

VA FACULTY
Elizabeth Cobbs, MD, Professor of Medicine; VA Chair of Geriatrics
Ali Ahmed, MD, Professor of Medicine
Karen Blackstone, MD, Assistant Professor of Medicine
Anca Dinescu, MD, Assistant Professor of Medicine
Nadine Dubowitz, MD, Assistant Professor of Medicine
Robert Kaiser, MD, Associate Professor of Medicine

Raya Kheirbek, MD, Associate Professor of Medicine
Nickie Lepcha, MD, Assistant Professor of Medicine
Sonika Pandey, MD, Assistant Professor of Medicine

NPs/PAs
Safiya Steward, NP
Laurie Wilson, NP
Trish Olin, PA

CLINICAL
Memory Disorders
Drs. Prather and Alchalbi have launched a new and improved Memory Clinic which builds upon the practice started by Dr. Cooper.

Outpatient Palliative
Under the new Cancer Center leadership, Drs. Puchalski, Roth and Doberman are creating a new Center for Palliative Medicine and Spirituality which aspires to become a leader in research as well as palliative care.

Dr. Roth was recently elected to the Board of Foggy Bottom/West End Village.

Dr. Roth and Dr. Jayes continue to work with the BreadfortheCity DC Asylum Clinic helping refugees in the DC area.
HOSPITAL
Working to prevent delirium in hospitalized elders, Dr. Prather has implemented a Sleep Promotion order set for identified patients to reduce incident delirium of subsequent complications.

Dr. Angela Lee has been working with a group to develop a protocol for Advanced Care Planning in the ED.

EDUCATION
SOM
Trish Olin and Laurie Wilson are active preceptors for CAP medical students and for NP and PA students.

The Integrative Medicine Track Program in School of Medicine continues to be a vibrant program that has been updated to include Bread for the City volunteer opportunities. We have also added partnership with Virginia College of Oriental Medicine, Unity Clinics, and Maryland University of Integrative Health.

Dr. Prather and Dr. Lodhi organized a new 30 hour curriculum Geriatrics course for the PA Program, in which Drs Alchalabi, Roth and Jayes also participated.

Dr. Doberman Developed new, 2 week Trauma-service PA curriculum for new-PA trauma fellowship at GWUH hospital.

Dr. Lodi has developed a new longitudinal clinical experience in Assisted Living for the primary care residents.

Dr. Prather has developed enhanced curriculums for inpatient geriatric consultation and for memory disorders.

Dr. Prather has developed a five week geriatric conference curriculum on transitions for all residents on the 4+1 schedule.

Fellowship
Geriatrics has 5 fellows under the leadership of Dr. Elizabeth Cobbs.

Hospice and Palliative Care has 5 fellows under the leadership of Dr. Karen Blackstone (VA).

Our fellowship emphasis on education is reflected in the expansion of our palliative fellowship from 2 to 4 fellows per year and the fact that we have filled all open slots for both Geriatrics and Palliative fellows for 2016-2017.

5 Integrative Medicine Fellows have been trained in 2016-2017 year and will be ready to take ABOIM certification exam starting in fall 2017.

Dr. Kogan is the online GW Integrative Medicine Fellowship has received accreditation by ABOIM (American Board of Integrative Medicine), under auspices of ABPS.

In addition, Dr. Kogan is a leader in The Chicago VA/GW Integrative Medicine Fellowship Pilot program to train 10 primary care doctors in Chicago VA was funded and was approved by ABOIM. The long term goal is to create national VA training fellowship in partnership with GW.
INTERNATIONAL WORK
Dominican Republic- Katalin Roth (Geriatrics) for the past twelve years has volunteered with Somos Amigos Medical Missions, which staffs a small medical and dental clinic in rural Dominican Republic, near the Haitian border. They provide primary care to local residents, adults and children, many of whom she has come to know well. This June will mark her 12th trip to Naranjito, a hamlet set among farms and steep hillsides. Hard work rewarded by comradery, simple food, mountain air, and practicing medicine on behalf of people who really need us.

PUBLICATIONS

BOOK CHAPTERS
- Lolak S, Minor D, Jafari N, Puchalski C. Chapter 17: Spirituality and spiritual interventions in Mental Health and Aging. Contributor In: Complementary, Alternative, and Integrative Interventions for Mental Health and Aging Lavretsky, Sajatovic, Reynolds, 2015, Oxford University Press. 257-271. (Please replace this with the one that you currently have in her CV)
- Puchalski, C. Foreword in: Dorman WE. Restoring the Healer: Spiritual Self-Care for Health Care Professionals, 2016; Templeton Press.
Due to the establishment of the GW Cancer Center on July 1st, 2015, the Division of Hematology and Oncology in the Department of Medicine has undergone significant changes to align itself with the vision and goals of the GW Cancer Center.

First, Dr. Robert Siegel stepped down as Division Director and Dr. Eduardo M. Sotomayor, Director of GW Cancer Center was appointed as Interim Division Director. Second, in his new role Dr. Sotomayor has been charged to expand the current focus of the Division in Clinical service and Education into state-of-the-art clinical cancer research. To accomplish this goal, the Division has embarked in an aggressive recruitment of mid-career clinical investigators that will bring a broad portfolio of cancer clinical trials. A total of 11 FTEs have been committed for the recruitment of clinical investigators, including the Associate Center Director for Clinical Investigations and a permanent new Division Director. Third, the clinical service of our current Faculty is being transitioned into a model that is more disease-oriented in order to align our Division with the goal of the Cancer Center to seek NCI-designation in the near future.
HEMATOLOGY & ONCOLOGY

RESEARCH ACCOMPLISHMENTS
• Establishment of the B-cell malignancies translational/clinical research group
• Establishment of the Gastrointestinal (GI) malignancies translational/clinical research group
• Establishment of the Breast cancer translational/clinical research group
• Establishment of the Head/Neck/Thyroid malignancies translational/clinical research group
• Oral presentation at the American Society of Hematology (ASH) Annual Meeting
• Submission of several federal and non-federal grants involving Faculty from the Division of Hematology/Oncology
• Sponsored Research Agreement with a biotechnology company (Acetylon Pharmaceuticals) to support translational/clinical research in the Division of Hematology/Oncology

GRANTS AWARDED
• NIH-1R01CA179062-01 (Eduardo M. Sotomayor, M.D./Jianguo Tao, MD). “Role of specific HDACs in Mantle Cell Lymphoma Immunobiology and Therapy” 7/2016 – 6/2021
• NIH-1R01CA20648-01 (Douglas Nixon, MD/Eduardo M. Sotomayor, MD). “HIV induced anti-cancer HERV immunity in prostate, breast and colon cancers”. 7/2016 – 6/2021
• NIH-P01CA130821 (Pl: Lopa Mishra, MD. Co-Investigators: E. Seto, E. Sotomayor, A. Tzatzos, G. Nguyen (GWCC) and S. Li (MD Anderson). “Cellular and Molecular Mechanisms of Gastrointestinal Cancers” 1/2017 – 12/2021
• NIH (K.Crandall/Sotomayor, E) “Genomic Data Analysis Network: Specialized Genomic Data Center”
• NCI (Horvath/Seto/Sotomayor): “Nucleotide resolution integration of normal and tumor RNA and DNA with cancer clinical data”
• Melanoma Research Alliance (Villagra/Sotomayor/Weber): “Enhancing melanoma immunotherapy by using HDAC inhibitors”
HEMATOLOGY & ONCOLOGY

CLINICAL ACCOMPLISHMENTS

Establishment of disease-oriented teams:

Breast Cancer
Rebecca Kaltman and Lauren Mauro

GI Malignancies
Khaled el-Shami and James Ahlgren

Head & Neck cancer
Robert Siegel and Khaled el-Shami

Other solid tumors
Robert Siegel

Hematologic Malignancies
Imad Tabbara, Kavita Katrajan, Frederick Rickles, Eduardo M. Sotomayor

GU Malignancies
Jianqing Lin (effective July 1st, 2016)

EDUCATION ACCOMPLISHMENT

• Continued education of medical students, resident and Hematology/Oncology fellows
• 6 current fellows under the leadership of Dr. Imad Tabbara
• Mentoring of Junior Faculty (Mauro, el-Shami and Katrajan) by senior members of the Division (Tabbara and Sotomayor)
• Nationally recognized Hematology/Oncology Review Course lead by Dr. Robert Siegel
• Increased attendance to review courses in Hematology (Best of ASH) and Medical Oncology (Best of ASCO) sponsored by the Division of Hematology/Oncology
• Monthly forums to educate patients and their caregivers about specific cancers, long-term side effects and survivorship

AWARDS

Dr. Geraldine Schechter, Professor Emeritus, was awarded the Walter Lester Henry, Jr., MD Award for Lifetime Teaching Excellence, which honors lifetime excellence as a teacher.
HEMATOLOGY & ONCOLOGY

PUBLICATIONS

- Reiss K, Ahuja N, Baylin S, Mauro L, A Randomized Phase II Trial of Epigenetic Therapy Following Adjuvant Treatment in Patients with Resected Pancreatic Cancer and High Risk Recurrence. Poster Session presented at American Society of Clinical Oncology, 2015
- Sadeghi N, Li N, Taheri M, Easley, S, Siegel RS, Neo-adjuvant Chemotherapy and Transoral Surgery as a Definitive Treatment for Oropharyngeal Cancer: A Feasible Novel Approach. ACCEPTED, Head & Neck: Journal for the Sciences & Specialties of the Head and Neck
- Mittelman M, Svorai-Litvak S, Oster HS, Krigner I, Siegel RS, Myelodysplastic syndromes (MDS), then and now: A comparison of two patient cohorts, 30 years apart, Department of Medicine, and Institute of Hematology, Tel Aviv Sourasky Medical Center, Sackler Medical Faculty, Tel Aviv University and the Division of Hematology and Oncology, The George Washington University Medical Center, Washington DC. SUBMITTED. American Journal of Hematology.
ABSTRACTS

Clinically the division continues to see majority of inpatients on a medicine service at the George Washington Hospital. Other clinical responsibilities include committee membership and chairing committees. Linda Lesky co-chairs the Peer Review committee. James Gehring chairs the medical records committee. James Gehring also holds one of the elected seats to the Medical Executive Committee. Clinically, we are taking on new responsibilities this year with taking over the inpatient Internal Medicine consult service. Jason Prior has taken on the remodeling of this service and created new curriculum for the residents and new teaching education for the faculty. The division also includes a midlevel service of 8 PA/NPs.

AWARDS
Dr. Kate Goodrich, former GW Chief Resident and Director of Hospital Medicine, has been chosen as the Director for the Center for Clinical Standards and Quality (CCSQ).

Dr. Shant Ayanian, Hospital Medicine, was the 2016 Golden Apple Award Recipients.

Dr. Juan Reyes, Hospital Medicine, was selected recipient of the GW SMHS Office of Diversity and Inclusion Retention Initiative conference sponsorship. He was selected for sponsored attendance to the 2016 AAMC Minority Faculty Career Development Seminar in Texas.
FACULTY
David Parenti, MD, Professor of Medicine and Microbiology, Immunology & Tropical Medicine; Director, Traveler’s Clinic
Afsoon Roberts, MD, Associate Professor of Medicine
Marc Siegel, MD, Associate Professor of Medicine
Gary Simon, MD, Walter G. Ross Professor of Medicine and of Microbiology & Tropical Medicine
Carmelita Tuazon, MD, Professor of Medicine
Henry Masur, MD, Clinical Professor of Medicine, NIH
Mudit Tyagi, PhD, Assistant Research Professor

VA FACULTY
Debra Benator, MD, Professor of Medicine
Cynthia Gibert, MD, Professor of Medicine
Fred Gordin, MD, Professor of Medicine
Virginia Kan, MD, Professor of Medicine
Angelike Liappis, MD, Associate Professor of Medicine
Amy Weintrob, MD, Associate Professor of Medicine

PAs
Aimee Desrosiers, PA
Maria Zumer, PA
Linda Salva, PA

CLINICAL
About 50% of patients seen in the outpatient clinic having conditions related to HIV and are being followed for viral control.

TEACHING
There are 4 ID fellows under the leadership of Dr. Afsoon Roberts. The ID student elective is most heavily populated during the first half of the fourth year.
The research portfolio continues to be active and is growing. A major portion of the research is the treatment of HIV and its complications. Much, but not all, is sponsored by pharmaceutical companies. For example, we are now initiating a study in which we will be attempting to measure decreases in cognitive function in HIV-infected elderly patients and compare this with matched, non-HIV infected individuals. This will be coupled with functional MRIs. Dr. Siegel has done very well in establishing himself as a leader in HIV prevention research. We have been active participants in the NIH sponsored HIV-prevention trials network in collaboration with SPHHS. Ongoing proof-of-concept vaccine trial for hookworm. Following this these is the possibility of a phase I trial for a schistosomiasis vaccine as well as a potential for early studies on an HIV vaccine. Submitted an R21 (Aileen Chang is PI) with MITM for studying Guillain-Barre Syndrome associated with Zika. ID is also involved in a European Union proposal for studying Zika. This is a 10.5 million Euro grant.

The DC CFAR is to expand our multi-institutional effort to support research that contributes to ending the HIV epidemic in Washington, DC and beyond, in partnership with local government and community.
In order to successfully accomplish this mission, the DC CFAR is committed to:

- Provide scientific leadership and institutional infrastructure to advance HIV research in Washington, DC
- Stimulate and support innovative, interdisciplinary and translational HIV research
- Promote the development and recruitment of early stage, new and women and minority HIV investigators in Washington, DC
- Advance HIV research in DC by increasing communication and collaboration among HIV investigators in DC with one another and with partners from government, community, other NIH-supported programs and the CFAR network

The DC CFAR also contributes to the national CFAR mission, which is to support a multidisciplinary environment that promotes basic, clinical, epidemiologic, behavioral, and translational research in the prevention, detection, and treatment of HIV infection and AIDS.

The DC-CFAR is led by an executive committee which serves as the governing body for the CFAR and considers all major DC CFAR scientific or structural issues and makes recommendations to the Director and Co-Director. There is an oversight committee which includes senior academic leadership representing each of the six collaborating institutions. This Committee provides central stewardship and institutional support for the DC CFAR. A Scientific Advisory Committee provides strategic, scientific and organizational guidance to the Executive Committee, and is comprised of scientific leaders from other CFARs across the country. There is also a community advisory committee that provides regular communication between the DC CFAR and community members and organizations. Its goal is to guide CFAR-supported research, ensuring that it reflects the needs of the local HIV/AIDS community.

The DC-CFAR is funded from the NIH and from support from all of the institutions involved in the CFAR. This largest element of support is devoted to the Developmental Core which funds new investigators for pilot research projects in the field of HIV and co-morbidities. Besides the direct funding, being part of a CFAR provides access to supplemental grants that are limited to CFARs. Many CFAR members have been awarded this supplemental funding.

PUBLICATIONS

- Siegel M, Masur H, Kovacs J., Pneumocystis jirovecii pneumonia in HIV Infection, Seminars in Respiratory and Critical Care Medicine, 2016 Mar
• Ghafour S, Siegel MO, Simon GL, Immune Reconstitution Inflammatory Syndrome and HIV-Associated Multicentric Castleman’s Disease and Disease and Human Herpes virus-B Viremia, International Journal of Infectious Disease, 2016, In press
• Turner RS, Chadwick M, Horton W, Simon G, Jiang X, Esposito, An individual with HIV, dementia, and central nervous system amyloid deposition, Alzheimer’s & Dementia: Diagnosis Assessment & Disease Monitoring, 2016, In press
• Simon, GL, Clinical Practice Guidelines for the Management of Candidiasis, Clinical Infectious Disease, 2016, In press

ABSTRACTS
# INFECTIOUS DISEASES

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<th>INFECTIOUS DISEASES</th>
<th>SPONSOR</th>
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<td>Gary Simon, M.D.</td>
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<td>Gary Simon, M.D.</td>
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<td>David Parenti, M.D.</td>
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There has been continued growth of the Podiatry Division at GW University Medical Center. With the growth of the Wound Care and Limb Salvage Center, the volume outpatient and inpatient care of diabetic and vascular patients has increased. There has been an increased inpatient and outpatient volume and in the complexity of surgical cases.

The division has continued its educational roll, with several fourth-year student taking the Podiatry and Diabetes elective. Also there are clinical rotations for primary care residents, attending weekly vascular conference, lecturing at Medicine Noon Conference, and participation in education of medical and surgical residents in the hospital setting.

Dr. Stempel submitted a chapter in a volume of Current Problems in Surgery, edited by Dr. Neville, on evaluation care and treatment of diabetic foot complications.
The Pulmonary, Critical Care and Sleep Medicine Division has undergone significant personnel changes during previous two years. In 2014, the unexpected death of a senior faculty member, in addition to the resignation of a second faculty member, reduced the full-time faculty complement in Pulmonary from six to four.

In 2015, Pulmonary recruited two new faculty members (Drs. Bawa and Williams) and another has been recruited for the next fiscal year (Dr. McLean). Also, a nurse practitioner was recruited for the Sleep Disorders Clinic (Anne Hunley), bringing the full complement of the Division to eight members.
CLINICAL ACTIVITIES
During the past few years, the patient population of the Pulmonary, Critical Care and Sleep Division has increased considerably. The Division carries a large clinical load by providing both outpatient and inpatient care. These are:

- **Blue Team**: Assumed the role of “Pulmonary Hospitalists,” supervising one of the busiest hospital-based housestaff teams. The Blue Team specializes in high acuity of care patients; among the conditions routinely treated are sleep apnea patient on continuous positive airway pressure (CPAP), acute-on-chronic respiratory failure with non-invasive mechanical ventilation (NIV), severe pneumonias, pulmonary emboli, COPD and asthma exacerbations and post ICU patients. The Blue Team census often reaches its maximum allowed number of 20 patients. Faculty rounds 7 days weekly.

- **Intensive care unit**: Faculty shares rounding in the combined Medico-Surgical ICU and in the Cardio-Thoracic ICU with the Department of Anesthesiology. Faculty rounds 7 days weekly.

- **Inpatient consults**: Provide hospital wide consultation service in the field of Pulmonary Medicine. Faculty rounds 7 days weekly.

- **Bronchoscopies**: In addition to bronchoscopies with brochoalveolar lavage and transbronchial parenchymal biopsies, we perform other highly complex bronchoscopic procedures including endobronchial ultrasound transbronchial needle aspiration (EBUS-TBA) for the diagnosis and staging of lung cancer are performed.

- **Pulmonary clinics**: The outpatient Pulmonary Clinic population has grown large, with waiting time for new patients approaching three months. There the faculty serves as mentor to students, residents and fellows.

- **Sleep Disorders clinics**: Very busy clinic serving patients with a variety of sleep disorders.

- **Sleep Disorders Laboratories**: The Division is in charge of running an eight bed Sleep Laboratory to insuring compliance with all regulations. Our faculty interprets sleep studies, approximately 50 studies per week. The Sleep Laboratory functions 7 days a week, with a waiting time of approximately three weeks.

- **Pulmonary Function Tests Laboratory**: This is fully equipped laboratory capable of performing pulmonary mechanics, lung volumes and diffusion tests, six minute walk tests, cardio-pulmonary exercise tests, blood gases, oximetry and high altitude oxygen requirements determination with waiting times in the order of 6 weeks.

EDUCATIONAL ACTIVITIES
- **Pulmonary and Critical Care Medicine fellowship**: This is an ACGME fully accredited and in good-standing program with training for eight fellows under the leadership of Dr. Jalil Ahari. Training takes place at GWU Hospital, the MFA outpatient clinics, the Washington Veterans Administration Hospital and clinics and the Pulmonary Transplant service at INOVA Fairfax Hospital. The three-year fellowship prepares fellows to sit for both the Pulmonary Diseases and the Critical Care AIBM boards. The fellows passing rate has been 100% for the past four years and 92% for the past 15 years.
• Residents, 3rd and 4th year medical students: The Division’s faculty teaches Internal Medicine residents and medical students during daily didactic rounds in the Blue Team and Consult rounding. Trainees from other Departments, including Surgery and OBGYN are taught in the ICU didactic rounds.

• Medical students: The faculty has significant teaching responsibilities in the new curriculum Cardiovascular, Pulmonary, and Renal Organ Systems (CPR) Block session for 1st year medical student at GW School of Medicine.

EDUCATIONAL ACTIVITIES
• Pulmonary and Critical Care Medicine fellowship: This is an ACGME fully accredited and in good-standing program with training for eight fellows under the leadership of Dr. Jalil Ahari. Training takes place at GWU Hospital, the MFA outpatient clinics, the Washington Veterans Administration Hospital and clinics and the Pulmonary Transplant service at INOVA Fairfax Hospital. The three-year fellowship prepares fellows to sit for both the Pulmonary Diseases and the Critical Care AIBM boards. The fellows passing rate has been 100% for the past four years and 92% for the past 15 years.
• Sleep Fellowship: Along with the Department of Neurology, there is sharing of responsibility for this Fellowship program. Training takes place both at the MFA clinic and the Washington Veterans Hospital. Currently there are three Sleep Medicine fellows. Passing Board rate for the past three years has been 100%.
• Residents, 3rd and 4th year medical students: The Division’s faculty teaches Internal Medicine residents and medical students during daily didactic rounds in the Blue Team and Consult rounding. Trainees from other Departments, including Surgery and OBGYN are taught in the ICU didactic rounds.

• Medical students: The faculty has significant teaching responsibilities in the new curriculum Cardiovascular, Pulmonary, and Renal Organ Systems (CPR) Block session for 1st year medical student at GW School of Medicine.

CONFERENCES:
The Division holds four weekly conferences:
• Clinical Case Presentation
• Journal Club
• Research Conference
• Pulmonary CCM Grand Rounds.

PLANS
Continue to provide excellent teaching to fellows, residents and medical students.
• Review and modify as needed the content and organization of the First Year Medical School Pulmonary Curriculum.
• Provide our Fellows and DOM residents with an electronic syllabus of pertinent Pulmonary/CCM literature that is updated on a monthly basis.
RESEARCH
There has been an increase in our research activities resulting in several peer reviewed publications and presentation of abstracts in local and national programs. The thrust of the research has been in the areas of Intensive Care and Sleep medicine. At present the following studies are underway:

• Respiratory variability in obstructive sleep apnea – Application of frequency spectral analysis to data obtained in all night polysomnograms from 204 to 2015. Application of this technique to over 600 studies shows impressive results in distinguishing normal from sleep apnea patients. Abstracts have been presented and two manuscripts are being written.

• Studies on patient ventilator asynchrony in mechanically ventilated patients under way in the GWUH ICU. A large study on the effect of sedatives in these patients has been concluded and another on weaning form mechanical ventilation was started two months ago.

AWARDS
DC ACP Chapter 2015 Awardee: Dr. Jalil Ahari, Assistant Professor of Medicine at GW MFA, was awarded the Sol Katz, MD Memorial Teaching Award which honors Excellence in Teaching.

PUBLICATIONS
• Walia R, Achilefu A, Crawford S, Jain V, Wigley SD, McCarthy LH. Are at-homesleep studies performed using portable monitors (PMs) as effective at diagnosing obstructive sleep apnea (OSA) in adults as sleep laboratory-based polysomnography(PSG)? J Okla State Med Assoc. 2014 ;107(12):642-4.
PULMONARY ABSTRACTS

- Bove C, Jain V, Younes N, Hynes M, Diet as a Risk Factor in Obstructive Sleep Apnea, GW Research Day, 2016 Apr
- Bateman R, Kimbro S, Kay M, Jain V, Mendelowitz D, Intranasal Oxytocin administration in patients suffering from Obstructive Sleep Apnea, GW Research Day, 2016 Apr

INDUSTRY RESEARCH

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FACULTY
Scott Cohen, MD, Associate Professor of Medicine
Ashte Collins, MD, Assistant Professor of Medicine
Muralidharan Jagadeesan, MD, Associate Professor of Medicine
Pedro Jose, MD, Professor of Medicine
Susie Lew, MD, Professor of Medicine
Ehsan Nobhakt, MD, Assistant Professor of Medicine
Samir Patel, MD, Associate Professor of Medicine
Shailendra Sharma, MD, Assistant Professor of Medicine
Manuel Velasquez, MD, Professor of Medicine

RESEARCH FACULTY
Ines Armando, PhD, Associate Research Professor
Laureano Asico, PhD, Assistant Research Professor
Prasad Konkalmatt, PhD, Assistant Research Professor
Van Villar, MD, PhD, Assistant Research Professor
Xiaoxu Zheng, PhD, Assistant Research Professor
Xiaoyan Wang, MD, PhD, Assistant Research Professor
Maria Wing, PhD, Assistant Research Professor
Ali Ramezani, PhD, Assistant Research Professor

VA FACULTY
Ping Li, MD, Associate Professor of Medicine
Carlos Palant, MD, Professor of Medicine

NPs
Marylynn Aminrazavi, NP
Nancy Uhland, NP

CLINICAL
The division continue to expand its clinical activities through active collaboration and innovation. The division has continued to increase the access to outpatient care and the quality of care has also improved through introduction of pre-visit form and outpatient discharge form. We have introduced a number of clinics such as (a) kidney protection clinic; (b) glomerular disease clinic, (c) stone disease clinic and (d) CKD education clinic. We will be establishing the hypertension clinic by July 2016. The inpatient service has expanded as well with the division offering (a) plasmapheresis; (b) leukophersis; (c) slow extended dialysis in addition to continuous renal replacement therapies. We are establishing exchange transfusion at the request of ICU and Heme/Onc. The transplant service is doing well, having performed more than 45 transplants. We have established protocols and policies and procedures and also seamless transition of care from surgery to medicine.
**EDUCATION**
The renal division currently has 6 fellows under the leadership of Dr. Scott Cohen. The division revamped the curriculum and the courses were well received by the medical students. We also get students coming to nephrology rotation and also number of students working with the renal faculty in research as well. The residents rotate through nephrology and has been evaluated as an excellent rotation and a valuable educational experience. The partnership with the VAMC and Inova Fairfax in fellowship training has worked well and it offers a wide spectrum of experience. Nephrology has always filled its fellowship slot each year. Dr. Cohen will assume responsibility as the fellowship director and I am working closely with him to make sure the fellowship training is optimal and continue to attract excellent candidates. The division has offered platform for world renowned clinicians and researcher to speak in “Renal Grand rounds”. We also established “FedMed Conference” in collaboration with the NIH intramural researchers and other universities in DC area, which offers an unique educational experience for the fellows.

Dr. Samir Patel and the Nephrology Division was recognized by the American Society of Nephrology (ASN) as being amongst the top 10 medical schools producing future nephrologists.

**RESEARCH**
The division welcomed Dr. Jose Pedro, a world renowned researcher and his team. He brought with him number of NIH grants and we are exploring new collaboration and possibly a program project grant in near future. Dr. Jose group has three ongoing projects funded by NIH: (a) Renal Dopamine Receptor: Regulation and Function; (b) Renal vascular oxidative stress in hypertension; and (c) GRK4 and salt sensitivity. They have 3 more R01 grant applications under review. Dr. Raj has about six active federally funded projects and number of new contracts being negotiated. We are in the final stages of completing the Systolic Blood Pressure Intervention Trial (SPRINT). We participate in the Hemodialysis Novel Therapies Consortium with two ongoing projects, ESRD Targut study and Safety and Cardiovascular Efficacy of Spironolactone in Dialysis-Dependent ESRD Trial (SPin-D Trial). The ACTION study is expected to start by Fall of 2016. We also participate in the CKD Pilot studies consortium with three ongoing studies the Target CKD study, The CKD Optimal Management With BInders and NicotinamidE (COMBINE)study and Bicarbonate Administration to Stabilize Estimated Glomerular Filtration Rate (eGFR) (BASE) study. The division has done remarkably well in research with more than 40 publications in peer reviewed journals. Fellows contributed to three of the publications. Faculty members have been invited across the world to speak in national and international venues. A number of faculty members serve in editorial boards of highly respected journals, serve as grant reviewers for research agencies across the world including the National Institute of Health.
AWARDS:
DC ACP Chapter 2015 Awardee: Pedro A. Jose, MD, PhD, Professor of Medicine in the Division of Renal Diseases and Hypertension and Professor of Pharmacology and Physiology at GWSMHS, was co-recipient of the prestigious American Heart Associations’ 2015 Excellence Award in Hypertension Research.

Dr. Samir Patel, Renal Division was a featured editor for the January 2016 issue of Advances in Chronic Kidney Disease Journal. He has brought together ten world renowned authors to compile this edition titled “The Elderly and Chronic Kidney Disease.”

Dr. Pedro Jose and Dominic Raj, Division of Renal Diseases and Hypertension, are nominated to the National Heart Lung Blood Institute (NHLBI) Working Group that will critically evaluate the “The Role of Microbiota in Blood Pressure Regulation”.

Dr. Pedro Jose, Professor of Medicine and Physiology, has been named the Chair of the Hypertension and Microcirculation NIH Study Section. This position is awarded to the most highly accomplished researcher.

Ines Armando, PhD, received an award on his recent grant dealing with The Role of Dopamine D2 receptor in Renal Inflammation and Injury from NIH.

PUBLICATIONS
• Drs. Anita Nallu, Shailendra Sharma, Muralidharan Jagadeesan, Dominic Raj, Renal Division, work, “Microbiome in CKD: Challenges and Opportunities”, was accepted for publication in Translational Research Journal.
• Shokri T, Lew SQ, Sadeghi N. Pedicled parathyroid gland autotransposition in secondary and tertiary hyperparathyroidism. Laryngoscope 2015;125:894-897
• Sharma S, Nallu A. Associate Editors for the Cochrane Clinical Answers on Interventions for Preventing the Progression of Autosomal Dominant Polycystic Kidney Disease. 2016


• Barrows IR, Raj DS. Janus Face of Coronary Artery Disease and Chronic Kidney Disease. J Am Heart Assoc. (In press)


ABSTRACT

• Dr. Vikram Doraiswamy, Nephrology fellow, abstract was selected as the top research in the category of Clinical Science at the National Foundation 24th Annual Fellows Research Forum.
FACULTY
Rodolfo Curiel, MD, Associate Professor of Medicine; Director, Myositis Center
Mandana Hashefi, MD, Assistant Professor of Medicine
Olcay Jones, MD, Associate Clinical Professor of Medicine and Anatomy and Regenerative Biology
Lisa Rider, MD, Clinical Professor of Medicine
Nora Taylor, MD, Assistant Professor of Medicine
Pragya Singh, MD, Assistant Professor of Medicine
Patience White, MD, Professor of Medicine and Pediatrics, Emeritus
Gulnara Mamyrova, MD, PhD, Assistant Research Professor

UPCOMING FACULTY
Adey Berhanu, MD, Assistant Professor of Medicine
NP
Sarah Harris, NP-C

RESEARCH ACCOMPLISHMENTS
FY 2016 was a productive year for GW rheumatology in regards research accomplishments. Our faculty successfully renewed three research grants and applied for 3 new grants.

Funded Research Grants:
• Cure Juvenile Myositis, Foundation Award $325,200 for calendar years 2015 and 2016
• Genomics and Biomarkers in Chronic Wounds, R013888, NIH National Institutes of Nursing research, renewed at $390,908 total costs for 2016-17

Funded Clinical Trials:
• Abatacept in Dermatomyositis, Bristol-Myers Squibb, $411,000 for clinical trial to enroll 10 patients with JDM over 2 years.
• Methotrexate plus abatacept vs. methotrexate plus adalimumab in patients with early RA, Bristol-Myers Squibb
RHEUMATOLOGY

CLINICAL ACCOMPLISHMENTS
GW Rheumatology has successfully increased clinical charge and infusion revenues above FY 2014.

In November 2015, clinical operations were moved to the 2300 M Street location and we have been able to improve patient satisfaction and clinic workflows. Our outpatient ultrasound clinic continues to grow and with use of two scanning machines we are able to accommodate all consults for swollen joints within 48 hours. Rheumatology developed several new clinics including the dedicated osteoporosis clinic, a scleroderma clinic and a clinic dedicated to the care of patients with Hidradenitis Suppurativa.

EDUCATIONAL ACCOMPLISHMENTS
The GW Rheumatology team taught GW SMHS students in the MSK block in August 2016, and also provided didactic lectures to the Physician’s Assistant Program in March 2015. Faculty have participated in medical student teaching on the Primary Care Clerkship providing lectures monthly for this group, and several faculty have also had CAP students in their clinics.

Our faculty has been very active in the GW Rheumatology Student Interest Group hosting a career session focused on finding research projects and also a hands on joint injection workshop which was very well received by students. Our team mentored 9 SMHS Medical Students or GW Undergraduates in projects presented at GW Research day. One of our Undergraduate projects won second place in the Research Day Awards.

The GW Rheumatology fellowship remains fully accredited by the ACGME and our team continues to focus on trying to increase the number of fellows we can train. Rheumatology currently has 2 fellows under the leadership of Dr. Rodolfo Curiel. During FY 2017 we intend to also focus efforts on improving Rheumatology education for the GW Internal Medicine Residents. Dr. Nora Taylor has applied for a Clinician Scholar Educator award from the American College of Rheumatology Research and Education Foundation and in the coming months we will work with Dr. Jill Catalanotti to allow more medicine residents to rotate through the Rheumatology Clinic.

On a national level our faculty serve in leadership roles; Dr. Shanmugam serves on the planning committee for the American College of Rheumatology Annual Scientific Meeting and the GW Rheumatology team is actively engaged in educational activities throughout the meeting, serving as poster tour guides, and moderating sessions.

GW Rheumatology also participates in community education – GW hosted the 20th Annual Lupus Summit in March 2016 and our team participates in community events including patient support groups and fundraising activities. GW Rheumatology faculty serve on the medical advisory board for the DC Chapter of the Lupus Foundation and the Arthritis Foundation.
PUBLICATIONS


• Patel FB, Couch KS, McNish S, Miller JD, Siegel R, Easley S, Shannmugam VK. A 66 year-old woman with hemoptysis. Arthritis Care and Research, 2015 Dec 10

• De Fazio MV, Economides JM, King KS, Han KD, Shannmugam VK, Attinger CE, Evans KK Outcomes after combined radical resection and targeted biologic therapy for the management of recalcitrant Hidradenitis Suppurativa, Annals of Plastic Surgery 2015, Nov 10


ABSTRACTS


• Couch KS, McNish S, Banerjee A, Amdur R, Shannmugam VK, Opiate exposure is associated with delayed healing in chronic wounds: Preliminary results from the WE-HEAL Study, Presented at SAWC meeting, April 2016


• Mangini M, McNish S, Banerjee A, Miller JD, Shannmugam VK, Scleroderma Wounds Exhibit Slower Healing than Wounds from Other Etiologies, Presented at GW Research Days, March 2016

• Mulani S, McNish S, Serafi S, Harris S, Shannmugam VK, Longitudinal outcomes of Hidradenitis Suppurativa patients enrolled in the WE-HEAL Study, Presented at GW Research Days, March 2016

• Akhiyat S, McNish S, Couch KS, Shannmugam VK, Medical Student Competency in Wound Care Guidelines, Presented at GW Research Days, March 2016
CHIEF MEDICAL RESIDENTS 2015-2016

CHIEF MEDICAL RESIDENTS (left to right)
Mortada “Reda” Shams, MD
Jessica Davis, MD
Adam Kittai, MD
Courtney Paul, MD
Erin Vipler, MD
Yevgeniy “Eugene” Vayntrub, MD