

# Medicine Matters

JANUARY 2019

NEWS FROM THE UVA DEPARTMENT OF MEDICINE



DEPARTMENT OF MEDICINE

## MISSION

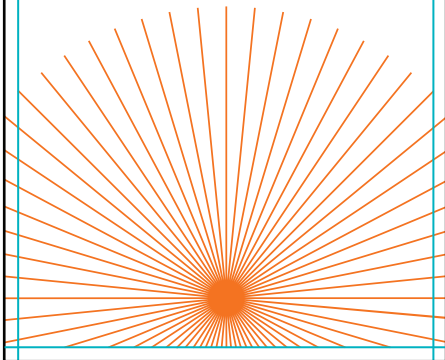
We are dedicated to preventing disease and treating illness, educating and inspiring future leaders in the field of internal medicine, and supporting innovative biomedical research.

## VALUES

We strive for a sense of community, connection, and synergy among all faculty, staff, and trainees.

## PLEDGE

We will conform to the highest ethical standards, uphold the values of our partner organizations, and give back to our community through public service.



SUBSCRIBE

GIVE TO DOM

## MESSAGE FROM THE CHAIR

A New Year begins and with it we are proud to bring back “Medicine Matters.” The monthly Department of Medicine newsletter continues with a new look and new leadership. Kim Kelley-Wagner is our new Editor and Webmaster and I think you will agree that she has brought a fresh and vibrant look to the newsletter. I want to thank her and Terri Washington for their hard work on this project.



This month we highlight the Division of Infectious Disease under the leadership of Dr. Eric Houpt. Dr. Houpt has recently taken over the Division Chief role from Dr. William Petri. Under both of their guidance, the Division continues to be an institutional leader in far-reaching and highly impactful research. In addition, the Division is a leader in clinical care and education. Many of their faculty members hold critical institutional leadership positions and I think we can say without hesitation that the Division is certainly one of the top Infectious Disease groups in the country and world.

As we start the New Year, I would ask that we all take a moment to think about our yearly goals and aspirations. If there is anything that I or the Department can do to help you, then please let me know. Also, let me know if there are areas that we

can improve in or provide you with better service. Finally, let us know what you think about the newsletter and how we can improve the content.

Here’s wishing you all a very happy and healthy new year.

Mitchell H. Rosner, MD, MACP  
Henry B. Mulholland Professor of Medicine  
Chair, Department of Medicine

## QUICK LINKS

DoM WEBSITE

DoM CALENDAR

GRAND ROUNDS

HOOS WELL

WORK DAY

HIGHLIGHTED DIVISION

# DOM FINANCIAL UPDATE

We strive to for our members to understand our financial position and improve transparency in explaining our business operations. We're pleased to report that the Department of Medicine through November has excellent consolidated financial performance with a stated net surplus of \$797K and a favorable variance to budget of \$1.2M. The table below summarizes key financial variables

Here are a few key facts concerning our performance. Please note the notation "F" means favorable, "UF" as unfavorable

## Department of Medicine Summary of Consolidated Financials FY19 as of November 30, 2018

	Budget YTD	Actual YTD	\$ Variance YTD
Work RVUs	371,085	375,661	4,576
Clinical Receipts (NPSR)	22,612,057	24,152,392	1,540,335
Total Revenues	74,552,034	73,051,653	(1,500,380)
Total Expenditures	74,992,866	72,254,251	2,738,615
<b>Net Income</b>	<b>(440,832)</b>	<b>797,402</b>	<b>1,238,235</b>

### Summary Explanation of Variance:

For the five months ending November 30, 2018 DOM posted a consolidated net surplus of \$797K and a favorable variance to budget of \$1.2M. Strong individual faculty clinical effort performance and higher collections per Work RVU drove net patient service revenue outperform budget by \$1.5M. Sponsored program revenue underperformed budget by \$2.1M due to the timing of anticipated NIH awards. Also, the department realized non-personnel cost savings of \$3.7M driven by under utilization of grant funds.

- Research support services greater than budgeted (\$233K F)
- Excellent clinical productivity and greater collections per RVU has helped cover deficits in other funding sources. Net Patient Service Revenue is ahead of budget by \$1.5M or 7% YTD.
- Unfavorable personnel costs variance (\$686K UF) is due to:
  - Staff vacancies that have not occurred at the rate budgeted (\$423k UF)
  - Timing of new hires, raises, anticipated faculty departures and incentives have mitigate some unfavorable variances
- We have realized costs savings across the board with non-personnel expenses, beating budget by \$3.7M (\$2.3M is related to unrealized grant support).

Please reach out if you have questions. Respectfully, Charles R. "Russ" Manley, Chief Operating Officer

## IN THE KNOW

### Department of Medicine and University of Wisconsin Collaboration

#### BRIM INITIATIVE - BIAS REDUCTION IN INTERNAL MEDICINE

The DOM is one of 20 Departments of Medicine around the country participating in Bias Reduction in Internal Medicine (BRIM). Faculty from the University of Wisconsin-Madison received NIH funding to evaluate the effectiveness of a 3-hour workshop designed to address bias in hiring and promotion focusing on issues of ethnicity and gender. The workshop is adapted from educational training they have previously shown to be highly effective in improving the climate around issues of gender diversity.

The team from the University of Wisconsin-Madison visited UVA last Spring and met with the Department's leadership and a group of faculty co-leads. This was followed by presentations at each Division sharing information about BRIM with the Department faculty. All the faculty were sent a survey to complete as a pre-intervention assessment. We are appreciative of all of the faculty who completed the pre-intervention survey, and encourage those of you who have not done so to take a few minutes and complete the survey sent to you following your Division meeting.

In the Spring of 2019, the University of Wisconsin-Madison team will return, implement their workshop with half of the DOM Divisions, and teach UVA faculty co-leads how to implement the workshop. The group of co-leads will then implement the same workshop with the other half of the Divisions. The same survey (you received this Fall) will be repeated after the workshops and again, at the end of the study. All of the data will be de-identified, and reported back to the Department as aggregated data.

A special thank-you to all of the BRIM co-leads who helped launch this project. They are: Olubusola Gomes, Sula Mazimba, Anne Tuskey, Angie Lucar, Cameron Bryant, Tamila Kindwall-Keller, Terri Washington, and Preston Reynolds.

# NOTABLE ACHIEVEMENTS

## *Academy of Distinguished Educators Named*

Congratulations to the incoming members of The Academy of Distinguished Educators! Jeanetta Frye, MD; Gregory Hong, MD, PhD; Victor Soukoulis, MD; and Karen Warburton, MD. Their induction will take place at the ADE's annual spring reception in May 2019 at Veritas Vineyard.

The ADE was founded by the Dean of the School of Medicine in 2003 to provide an organizational structure that would recognize, reward, promote, and further develop excellence in medical education within the School of Medicine. The members of the Academy have worked over the years to develop criteria for future membership, to investigate a peer evaluation program, and to fund excellent educational research projects. The School of Medicine charge to the Academy is to recognize and reward outstanding teachers; to work to make excellence in teaching a domain of academic advancement; and to develop effective faculty educators across the academic medical center.

To learn more about The Academy of Distinguished Educators, visit their website at: <https://faculty.med.virginia.edu/facultyaffairs/academy-of-distinguished-educators/>

Jeanetta Frye, MD



Gregory Hong, MD



Victor Soukoulis, MD



Karen Warburton, MD



## *2018 School of Medicine Faculty Awardees*

The University of Virginia School of Medicine Faculty Awards recognize faculty who excel in teaching, which many include, but are not limited to, accomplishments in research, being outstanding as a classroom instructor, research mentor, small group discussion leader, student advisor, curriculum innovator, course director, student advocate, and/or director of student research.

Congratulations to Dr. Ryan Gentzler as he received an award from the DOM for Excellence in Clinical Care.

Congratulations to Dr. Craig Portell as he received an award from the DOM for Excellence in Research.

Congratulations to Dr. Richard Hall as he received an award from the DOM for Excellence in Teaching.

Craig Portell, MD



Ryan Gentzler, MD



Richard Hall, MD



Dean's Award for Excellence in Teaching – Amita Sudhir, MD, Associate Professor of Emergency Medicine

Dean's Award for Excellence in Research and Team Science –

Senior Faculty Award – Peter I. Lobo, MD, Professor of Medicine

Junior Faculty Award – James A. Platts-Mills, MD, Assistant Professor of Medicine

Dean's Award for Clinical Excellence – Elizabeth M. Gaughan, MD, Assistant Professor of Medicine

Leonard Tow Humanism in Medicine Award – Molly A. Hughes, MD, PhD, Associate Professor of Medicine

Amita Sudhir, MD



Peter Lobo, MD



James Platts-Mills, MD



Elizabeth Gaughan, MD



Molly Hughes, MD



# ANNOUNCEMENTS



Kelly Davidson, MD

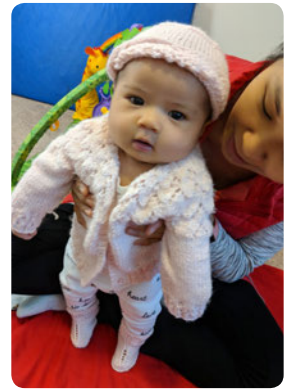
### **Anniversary**

Congratulations to Dr. Kelly Davidson on her 10 year anniversary with the Division of Hematology/Oncology.

### **Welcome to the DoM Family**

Dr. Louise Man, Assistant Professor of Medicine in Hematology, and her husband Malcolm Charles announce the new arrival of their baby girl. Josephine Charles arrived September 19th at 9:30am weighing 7lbs. 5.4ozs. Congratulations to Louise and Malcolm!

Lisa Mackey, Heme/Onc Fellowship Coordinator, welcomes baby Mikah Renee Lindsay on September 16th. Mikah weighed 7lbs and was 19 inches long. Congratulations to Lisa and Mike!



Josephine Charles

### **New Grant Awarded**

Congratulations to Drs. Patrick Dillon and Christian Brenin who have been awarded a grant funded by the Cancer Center and the Women's 4-miler Breast Cancer Research Fund. "Study of COX1 Inhibition and Biomarkers of Response During Neoadjuvant Chemoendocrine Therapy for Estrogen Receptor Positive Early Breast Cancer.

### **New Clinical Trials opened in Hematology/Oncology**

Single Arm, Open Label Phase 1b/2 Study of SGN-LIV1A in Combination with Pembrolizumab for First-Line Treatment of Patients with Unresectable Locally-Advanced or Metastatic Triple-Negative Breast Cancer  
Cancer PI: Patrick Dillon



Mikah Lindsay & brother Tristan

[More...](#)



Dr. Lawrence Lum is honored at a recent event for being elected to an endowed chair: The Marion McNulty Weaver and Malvin C. Professor of Oncology. (pictured middle row 4th from the left)



Dr. Elizabeth Gaughan receives a Dean's Award for Clinical Excellence

## 60th ASH ANNUAL MEETING & EXPOSITION POSTER & LECTURE PRESENTATIONS

Mahi Lab	UVA study	Oral	The PIM Kinase inhibitor TP-3652 in combo with ruxolitinib exhibits improvement in MF in murine models
Gru	Co-Author	Poster	Superior clinical benefit of Brentux Vedotin in MF vs. Physician's choice irrespective of CD30 or Lg cell tx status in Phase 3 ALCANZA study
Reed et al Keng Sr	UVA study	Poster	Oral regimen for urine alkalinization in Pts getting HD MTX during shortage of IV bicarb

[More...](#)

## MESSAGE FROM DR. ERIC HOUPT



It is a sincere privilege to serve as Chief of this Division, following in the large footsteps of Dr. Bill Petri and Gerald Mandell. We are one of the larger Divisions in the country, with ~35 faculty, ~10 fellows, and ~24 staff. Our size bespeaks our constant drive towards excellence in all domains. Clinically our faculty run 3 busy inpatient consultation services and a number of outpatient clinics, as well as attending on the general medicine service. Our faculty are educational leaders at the UME and GME levels. On the research front we are constantly running on a fast-moving treadmill of research and grant activity. \$23.1 million worth last year. We also serve the Medical Center, the University at large, and the Commonwealth in a number of important areas, including Hospital Epidemiology, Antibiotic Stewardship, Outpatient Antibiotic Therapy, the UVA Center for Global Health, and consultative support to the Virginia Department of Health in TB, HIV, HCV and infection control. These basic statistics, however, fail to capture our greatest day to day strength - our congenial, cohesive, collaborative atmosphere. Most of us have been here at UVA for quite a while and have risen from within, and we like it here! Thanks for checking us out and see you around the Medical Center!

## ID CLINICAL UPDATES

The inpatient consulting service has expanded to include both a “routine” infectious disease service in which all clinical faculty participate, as well as a service dealing with infections in the immune-compromised host. This latter service involves solid organ transplant recipients, hematopoietic stem cell transplant recipients and patients with fluid malignancies, and is run by Drs. Costi Sifri, Brian Wispelwey, John Hogan, Jerry Donowitz and Chris Arnold. In addition to these services, a nurse-practitioner service has been developed and maintained by Dr. Chris Arnold.

Outpatient clinical activity has also expanded. Rebecca Dillingham has established a Hepatitis C/HIV clinic which she runs with help from Drs. Greg Townsend and Chris Arnold. Clinics for patients with mycobacterial diseases have been established by Drs. Eric Houpt and Scott Heysell. The activity of the travelers’ clinic has been expanded by Dr. Tania Thomas and Dr. Shannon Moonah. The newest clinical undertaking is the establishment of an outpatient antibiotic therapy clinic (OPAT) where patients who are receiving outpatient intravenous antibiotics can be monitored for both efficacy of infection treatment, but also potential drug-related toxicities. This clinic, headed by Dr. Josh Eby and Heather Cox from the UVA Pharmacy has filled a significant need in patient care and safety at UVA.

Overall, the clinical activity of the Infectious Diseases Division has expanded compared to previous years and is expected to continue.

## ID RESEARCH UPDATES

Research in the Division of Infectious Diseases and International Health includes a wide breath of both international and domestic projects that range from bench to bedside in scope. A few of our recent research accomplishments include Amy Mathers’ ground-breaking research identifying sink traps as a source spread of antibiotic resistance in health care settings, and characterizing antibiotic resistance transmission by novel plasmids. With funding from the CDC Dr. Mathers is developing innovative methods to understand, contain and control the spread of antibiotic resistance bacteria. Chris Moore has developed a new triage tool to identify hospitalized patients at the greatest risk for death in sub-Saharan Africa. This tool has been validated using data from six countries in Africa that includes approximately 6,000 hospitalized patients. He is now testing this tool as part of a multicenter study in several African countries. James Platts-Mills, Jie Liu, Mami Taniuchi, and Eric Houpt have used quantitative molecular diagnostic methods to reassess causes of diarrhea in large global multi-site studies and determined that the majority of the cases could be attributable to a small number of pathogens, particularly noteworthy being Shigella. Their findings are prompting large investments in Shigella vaccine development.

Research activities in the division are supported by more \$21.3 million annual extramural funds. A brief description of our most recently funded activities are: Becca Dillingham, in collaboration with Scott Heysell, is applying her expertise in retention in care for HIV positive persons to HIV/TB positive people in Siberia. Determining and overcoming the barriers to obtaining potentially curative treatment for hepatitis C is also one of Becca’s projects. Kate McManus has tackled understanding health care disparities in HIV patients, and the impact of changes in health care access, including the Affordable Care Act. Mami Taniuchi’s work on polio environmental surveillance is contributing to the World Health Organization’s goal of achieving a polio free world. Bill Petri’s research program, funded by three active R01s, is also global in nature, and includes studies on innate protection from *C. difficile*, amebiasis and IBD and field studies on *Cryptosporidium* with Carol Gilchrist, and with Mayuresh Abhyankar, identifying adjuvants for an amebiasis vaccine. Bill also leads two NIH/NIAID T32 training grants that provide research training and support for our ID fellows, as well as 7 predoctoral BIMS students. Stacey Burgess is examining the role of the microbiota and epigenetic changes in the bone marrow in the setting of amebiasis and reactive airway disease. Scott Heysell’s work on tuberculosis has global reaches in Siberia and Tanzania, and is looking at the impact of co-morbidities such as HIV and diabetes, and with Tania Thomas is investigating pharmacokinetic evaluations of anti-TB drugs.

**FULL LIST OF PUBLICATIONS ON OUR WEBSITE [HERE](#)**

# DIVISION SPOTLIGHT - INFECTIOUS DISEASES

## ID PROJECTS AND AWARDS

### *Examples of some of our other active research projects include:*

Molly Hughes- Chemokine defenses against antibiotic resistant bacteria

Patrick Jackson- Role of HIV Rev-RRE regulatory system in transmission and latency

Chelsea Marie- Identifying of host targets in Cryptosporidium infection

Shannon Moonah- Identifying novel anti-parasitic targets and protein turnover pathways

Dick Guerrant- Impact of diarrheal diseases on childhood growth and development

Barb Mann- Development of Francisella vaccines

Joann McDermid- Role of breast milk immunology and nutritional supplementation on infectious diseases outcomes

Girija Ramakrishnan- Mechanisms of bacterial persistence

Jae Shin- C. difficile in an aged host

Circle Warren-Role of central nervous system in C. difficile colitis

Wen Yuan- Developing new and improving existing HIV therapeutics

### *Awards are listed below:*

Stacey Burgess: NIH R21 “Microbiota mediated protection from amebiasis”

Rebecca Dillingham: NIH R21 “Exploring mHealth to Improve the Delivery of Palliative Care and Cancer Pain Management in Nepal: An interdisciplinary community based approach.”

Rebecca Dillingham: Virginia Department of Health: Conquering Hepatitis via Micro-Elimination (CHIME)

Eric Houpt: CDC “Syndromic Molecular Diagnostic Capacity Building for Global Health Security in West Africa, East Africa and South Asia”

Eric Houpt: CDC “Clinical and microbiologic outcomes in patients treated for multidrug-resistant Shigella infections in Dhaka, Bangladesh

Chris Moore, Jenny Guler (Biology & ID), Nathan Swami (Engineering): “Isolation and analysis of patient-derived malaria parasites”

Scott Heysell/Rebecca Dillingham: Elton John Foundation “Bridge Irkutsk: Scaling up testing for target populations and linkage to and retention in care for people living with HIV.”

Scott Heysell/ Tania Thomas with collaborators at Rutgers: NIH/NIAID R01 “Urine Colorimetry for Pharmacokinetics Evaluation in Children and Adults.”

Scott Heysell with collaborators from U Copenhagen and U Groningen (Netherlands) and Kibong’oto Infectious Diseases Hospital in Tanzania: Denmark Gov funded “ADEPT: halting the dual tuberculosis and diabetes epidemic in Tanzania.”

Amy Mathers: CDC “Novel Interventions and Approaches to Mitigating Carbapenemase Producing Gammaproteobacteria in Healthcare Premise Plumbing”

Kate McManus: NIH/ NIAID K08 “Deconstructing HIV disparities: multistate study of data, outcomes and mediators”

Bill Petri: NIH Global Network for Women’s and Children’s Health Research grant “A partnership dedicated to improving maternal and child health outcomes and building health research capacity in resource-poor settings”

Bill Petri: NIH R01 “Advanced Development and Clinical Evaluation of a Synthetic Intranasal Entamoeba histolytica Vaccine Containing Adjuvant”

Bill Petri & Carol Gilchrist: NIH 2 R01 “Field Studies of Cryptosporidiosis in Bangladesh” (year 20)

Bill Petri: NIH 2R37AI026649 “Role of CREM in Amebic Colitis and Inflammatory Bowel Disease” R37 award extends R01 by 5 years.

Bill Petri: NIH/NIAID Biothreats Research Training and Career Development. NIH/NIAID. This program provides training in infectious diseases biothreats to 1 postdoctoral and 2 predoctoral fellows.

Bill Petri and Mayuresh Abhyankar: NIAID subcontract from Infectious Disease Research Institute (IDRI, Seattle) “Advanced Development and Clinical Evaluation of a Synthetic Intranasal Entamoeba histolytica Vaccine Containing Adjuvant”.

James Platts-Mills: Gates Foundation, “MAL-ED Campylobacter sequencing and B. infantis carriage”

Mami Taniuchi: Gates Foundation, “Poliovirus sequencing from the Matlab transmission study”

Mami Taniuchi: Gates Foundation, “The role of asymptomatic enteropathogen infections in diarrhea risk among infants in Bangladesh”

Mami Taniuchi: Gates Foundation, “TaqMan Array Card method for polio environmental surveillance”

## ID EDUCATION

Led by Program Director, Dr. Chris Moore, and Associate Program Director, Dr. Kate McManus, UVA's Infectious Disease Fellowship for MDs is a three-year program supported by two NIH T-32 training grants that aims to produce world-class physicians dedicated to a career in academic infectious diseases. Our program offers rigorous training and supervised experience with faculty members who have broad clinical and research expertise. The first year of training is dedicated to research and the second and third years of training are divided between clinical training and research. There are opportunities to stay on one of the T-32 training grants for an additional fourth year.

Current Infectious Diseases Fellows			
Year 1	Residency	Mentor	Research
Bree Campbell	UTexas-Medical Branch	Becca Dillingham	Mobile Health for HIV retention in care
Sagal Mohamed	UTennessee	Scott Heysell	Diabetes and Tuberculosis in Tanzania
Stacy Park	UVA	Amy Mathers	Molecular epidemiology of multidrug-resistant organisms
Year 2			
Greg Madden	Yale	Costi Sifri	Diagnostic stewardship for <i>Clostridium difficile</i> testing
Jackie Sherbuk	Yale	Becca Dillingham	Hepatitis C infection continuity of care and associated outcomes
Kevin Steiner	Brigham and Women's Hospital	Bill Petri	<i>Cryptosporidia</i> immunology and pathophysiology
Year 3			
Molly Fleece	UVA	Eric Houpt	MDRO enteric infections in Tanzania
Megan Gray	UVA	Becca Dillingham	Injection drug use associated endocarditis
Amanda Schnee	MUSC	James Platts-Mills	Diarrheal illnesses in Bangladesh
Year 4			
Elizabeth Gulleen	U Minnesota	Chris Moore	Neutropenic fever in Uganda

Opportunities abound for rich interdisciplinary research experiences in cutting-edge basic science and translational, clinical, and epidemiologic infectious diseases research. Research takes place in state-of-the-art laboratories, clinics, and hospitals, at UVA and in facilities around the world. Research themes include care for patients with HIV; modeling and outcomes related to critical care and severe sepsis; epidemiology of multi-drug resistant organisms; global health; diagnostics; immunology; host susceptibility to infection; host-pathogen interactions; and pathogenesis of infectious diseases.

We welcome hearing from residents and students who are interested in working on research projects in the Division. Please contact Chris Moore (ccm5u) or Kate McManus (km8jr) if you would like to be connected to a project and follow our Twitter feed (@UVA\_ID) to stay up to date with our news and activities!

## ID SPOTLIGHT PROFILES

### STAFF PROFILE - Liz Olmsted

I grew up in Staunton, went to JMU, and then lived in Northern Virginia and Washington, DC for 15 years during which time I got married and had two children, now ages 25 and 22. We moved to Charlottesville in 1998 for a calmer and less expensive life and, after having bounced around in different industries since college, finally found a home at UVA where I've been since 2001. I started in the TV News office as a temp and have slowly worked my way to grant administration which I find very rewarding. As Dr. Guerrant says, it is important to do work that serves more than your own interests; and supporting inspiring researchers in ID and the Center for Global Health has allowed me to feel a great sense of satisfaction.



*Why research?* Every day is a different challenge (in a good way).

*What Brought You To Charlottesville?* A better milieu to raise myself and family.

*What Excites you About Your Work?* I feel like I am doing my little part to help make the world a better place.

*Proudest/Greatest Achievement Outside the Professional Realm* I successfully completed 5 marathons.

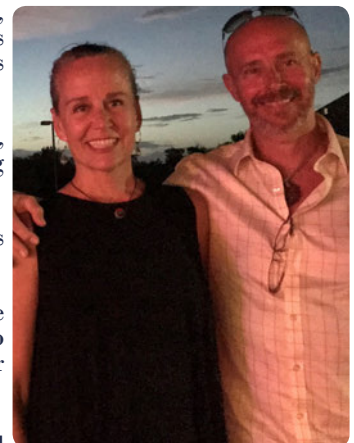
*Next Life* Living on our 160 acre property with my husband, bees, goats, and chickens in as peaceful and compatible a way as possible with the trees, beavers, deer, fox, wild turkeys and bears who already live there.

*What are you Doing in Your Spare Time* Since I can't run anymore, I've been swimming and slowly getting more into bicycle riding with my husband (who is very patient).

*Favorite Vacation Activity/Spot* Losing myself for hours and hours doing physically demanding work at the property.

*Most Admired Person and Why* The witch archetype because she represents someone who knows and uses her power and chooses to live outside mainstream society / in nature rather than repress her true self.

*Best Advice Anyone Ever Gave You* Find and do what makes you happy.



*What About You Would Surprise Us?* That I am 'grandmother' and now primary caretaker of a spoiled little cockatiel bird named Ollie Gershwin who sits on my shoulder while I'm getting ready for work in the morning and loves to eat tortilla chips.

## FACULTY PROFILE - *John Hogan*

I graduated from the UVA College of Arts and Sciences in 2007, completed a year of infectious disease research in 2008, and finally graduated from the UVA School of Medicine in 2012. After nine years in Charlottesville, as much as I loved the community here and valued the education that I received at UVA, I decided that I wanted to gain a broader experience in a different medical system as I applied to residency programs. I completed Internal Medicine residency at Massachusetts General Hospital in 2015. From 2015 to 2018 I completed clinical fellowships in general ID, HIV, and immunocompromised ID through the combined Harvard affiliated program at Massachusetts General and Brigham and Women's Hospitals. After completing my medical training in Boston, I was fortunate enough to be hired as a new member of the clinical faculty on the immunocompromised ID service at UVA in August of 2018.

### *Why clinical care?*

We all have in our minds a definition of what the ideal physician should be. For many in academics, the primary motivation is to generate cutting edge research that helps advance the medical field as a whole. For other physicians in our community, developing lifelong, durable relationships with patients provides the greatest sense of satisfaction. For me, the bedside clinician at a major academic medical center embodies all of the attributes that my ideal physician strives to attain. Every day on the inpatient service reminds me that I never have the right to say that I've had a "bad day." I don't have necrotizing fasciitis today. I routinely meet patients on the worst day of their lives, and recognizing this fact is the greatest motivation that an acute care provider can have. Relying on a thorough history and exam, clinical reasoning, and a knowledge base that encompasses infectious processes affecting every organ system in the body, I have the opportunity to guide some of the most medically complex patients in the hospital through the course of life-threatening infections. Seeing patients who were recently critically ill convalescing well after discharge is one of the most satisfying experiences that my role affords me.



### *What brought you to Charlottesville?*

There aren't many primarily clinical jobs available in academic ID. Most training programs today still place much greater emphasis on cultivating stellar researchers rather than developing the next generation of outstanding clinicians. UVA attracted me as a major academic medical center that recognized the importance of having dedicated clinicians on staff. At this tertiary care center I have the opportunity to continue to improve my clinical skills on a daily basis. All this combined with opportunities to learn from seasoned clinicians in our division, a location that is much closer to my family, a very favorable cost of living, fantastic food, plentiful opportunities to enjoy the outdoors, and a competitive salary made this position at UVA very attractive. I lived here for nine years before I moved to Boston for training, and moving back to Charlottesville was an easy transition for me.

### *What excites you about your work?*

On a daily basis I have the opportunity to assist in the evaluation and management of some of the most complex, challenging cases in the hospital. Necrotizing Rhizopus infection of the lung. Disseminated Nocardia infection with CNS involvement. Severe Legionella pneumonia in a liver transplant. This job never gets old, and I'm constantly learning.

### *Proudest/greatest achievement outside the professional realm?*

First place in a judo tournament. Threw my opponent for ippon and finished him with a straight arm bar. Almost as satisfying as graduating from med school.

### *Next life?*

Homicide detective. For. Sure.

### *What are you usually doing in spare time?*

I enjoy outdoor activities like hiking and kayaking a great deal. My tick prevention techniques have thus far been flawless.

### *How did you meet your partner?*

I first met my wife when I was an overnight intern at Massachusetts General. She helped me place a nasogastric tube in a grossly delirious patient. Admittedly, these were not the most romantic circumstances that one could ask for, but I'll take understanding, listening, and cooperation over the perfect Romeo and Juliet scenario any day.

### *Favorite vacation/activity spot?*

Bar Harbor, Maine. Great hiking, kayaking, wildlife, and food.

### *Most admired person, and why?*

It may sound a bit trite, but I'd still have to say my father. He never pressured me to attend medical school, but he was the first physician in my life to set an example for me as an outstanding clinician. Yes, it's still annoying to be grilled about neuroanatomy over Thanksgiving dinner, but the pros of having a father in the medical field have definitely outweighed the cons. Okay, maybe I'm embellishing just a little bit. It's not quite at the level of "grilling."

### *Best advice anyone ever gave you?*

Regardless of what field you eventually go into, don't skip your psych lectures. I always attended lecture in medical school, and I suspect that even in transplant clinic I must use some of the lessons I learned during psych lectures at least a few times a week.

### *What about you would surprise us?*

The thought of taking antibiotics makes my stomach churn.



## FELLOW PROFILE - Elizabeth Gulleen

A life-long Midwesterner, I grew up in Des Moines, Iowa (not to be confused with Idaho which is where the potatoes grow or Ohio which may almost be Midwestern but is definitely NOT the same state). Although I informed my family that I wanted to be a doctor at the age of two, I took a brief hiatus from this plan to major in music at the Wheaton College in Wheaton, Illinois. However, I ultimately decided that the life of a musician made for a better hobby than a career. Consequently, after spending a year as a nursing assistant on the neuro/trauma floor of a local hospital, I enrolled in medical school at the University of Iowa. After graduation from Iowa, I moved to Minneapolis, Minnesota for internal medicine residency in the Global Health Track at the University of Minnesota. Given my interest in medical education, I completed an additional chief resident year before moving to Charlottesville, Virginia for infectious diseases fellowship in June, 2016.

I am currently in my third year of infectious diseases fellowship here at UVA. My particular areas of interest include tropical infectious disease, providing healthcare in resource-limited settings, and the management of infections in non-HIV immunocompromised patients. I am currently working on a project examining the etiology of post-chemotherapy infections at Uganda Cancer Institute in Kampla, Uganda, where I will be living and working from January-June, 2019. Ultimately, I would love to help in the development of treatment protocols for post-chemotherapy infections in patients living in sub-Saharan Africa and practice immunocompromised infectious disease in a university setting.

### *Why Infectious Diseases and Global Research?*

I first became interested in tropical medicine when I took a parasitology course in college. Sadly, my roommates didn't understand how cool the class was and promptly banned me from discussing it after deciding it was "much too gross to talk about". I really began to consider a career in global health in medical school when I spent a summer studying leishmaniasis in the parasitology lab at Hospital Escuela in Tegucigalpa, Honduras. It was here that I started to understand the positive impact that collaborative international research could have on improving healthcare and patient outcomes in low-resource settings. It also confirmed my suspicion that the interactions between hosts and pathogens are really, really cool and that ID is the best medical subspecialty out there. This was reiterated through multiple ID rotations throughout medical school and residency where I discovered that the ID physician gets to see the most interesting cases in the hospital, acts like a medical detective, and can actually cure people!



### *What Brought You To Charlottesville?*

At my UVA interview, I was particularly impressed by the number of smart, engaged, and clinically-oriented fellows and faculty I met throughout the day. I was also struck by the program's dedication to investing in an individual fellow's unique research niche based in her interests. As a medical trainee interested in a career in international research, I was really looking for a program that appreciated the challenges and complexities of initiating a global health career and where faculty was actively striving to engage in true partnerships with local physicians and researchers. I have remained impressed by the department's willingness to support my rather unique combination of interests by providing endless support and the resources to do what I love.

### *What Excites you About Your Work?*

The ability to make a difference in a patient's outcome whether it is through providing direct patient care or figuring out optimal infection treatment protocols. I love exploring the differences in infections that patients develop based on exposure risks and varying geographic locations. This becomes particularly exciting when trying to figure out if we should be altering our treatment guidelines to fit local infectious disease profiles. I also really like working the clinicians across multiple disciplines and locations to provide good patient care.

### *Proudest/Greatest Achievement Outside the Professional Realm*

Probably making the principal clarinet player in my college orchestra. There is nothing quite like leading the clarinet section of a large orchestra while playing some of the greatest classical music ever written.

### *Next Life*

Who knows... maybe I would see what my life as a professional musician would have been like. Alternately, I really love teaching so could have been some type of a teacher.

### *What are you Doing in Your Spare Time?*

When I'm around Charlottesville, you will probably find me either at FlyDog Yoga Studio trying not to die in Maryanne's killer heated vinyasa class, in my kitchen cooking or baking, driving around the city antiquing/thrift shopping, or out with friends at a local restaurant/winery/brewery. If I'm not in Charlottesville, I'm probably traveling to visit friends or family throughout the United States or taking an international trip.

### *Favorite Vacation Activity/Spot*

While international travel is one of my hobbies, the beach is my happy-place where I go to relax when I need some down-time. My parents recently retired and now own a condo on the beach in Florida which is where I go to escape when I need a few days away from everything.

### *Most Admired Person and Why*

I have many amazing people in my family, but have always been particularly impressed by my great-grandmother, Evelyn Magnuson, who raised a family as a single mother during the depression after her husband died. In a time where it was often frowned upon to be a single woman working outside of the home, she was an independent lady who took on multiple jobs to support and raise her family. She encouraged all of her children and grandchildren to get a good education and to follow their own career paths. Despite her challenging circumstances, she retained a great sense of humor and was a really nice person who was always willing to help others in need.

### *Best Advice Anyone Ever Gave You*

"Balance is something you create, not something you find". In medical training, it can be really easy to focus on career-development to the exclusion of the things that make you a well-rounded and happy person. A balanced life is not something that just happens. It is cultivated through actively deciding what is important to you and making those things a priority.

### *What About You Would Surprise Us?*

For a while, I was jokingly referred to as the "bringer of disasters" due to the fact that every time I went on an international trip, some type of terrible event occurred. Thanks to this, I survived a political coup in Honduras and left Nepal just days before the huge earthquake occurred in 2015.



## ID COLLABORATIONS & EVENTS



Dr. Eric Houpt and Dr. Estomih Mduma, founders of the Haydom Global Health Institute in the Manyara region of Tanzania, East Africa. HGHI does field studies of infectious diseases.



Dr. Tania Thomas and Dr. Najeeha Iqbal from Aga Khan University collaborating on the GIDI iGrant: “Nanoparticle capture of urinary lipoarabinomannan for diagnosing childhood tuberculosis.”

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COLLABORATIONS



Mother-Infant Cryptosporidiosis Study team members, with their institutional affiliation and area of research: Marya Carmolli (U. Vermont; rotavirus vaccination); Stacey Burgess, PhD (UVA-ID; gut-lung inflammation); Mami Taniuchi, PhD (UVA-ID; polio vaccine); Poonum Korpe, MD (former ID fellow who recently joined Johns Hopkins’ faculty; cryptosporidiosis); Jeff Donowitz, MD (Pediatric Infectious Diseases Fellow, VCU; small intestine bacterial overgrowth).

# ID COLLABORATIONS & EVENTS



One of the first days in the University of Venda (Univen) HIV/AIDS and Global Health research lab for UVA Center for Global Health (CGH) University Scholars and Minority Health International Research Training (MHIRT) Scholars. Sara Krivacsy, "We grew to become very close friends with many of the brilliant and supportive people in our lab." Pictured here are University of Venda researchers including alumni of the Global Infectious Disease Research Training (GIDRT) program, MHIRT and CGH Scholars.



Sagal Mohammad (2nd from left, UVA ID fellow), and Scott Heysell with children Dahlia and Asher, with Kibong'oto Tuberculosis Hospital team in Tanzania.



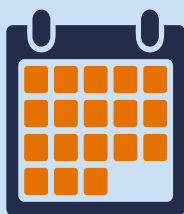
Global Infectious Disease International Research Training (GIDRT) Fellow and research leader, Mukhethwa Munzhezdi, and Center for Global Health (CGH) Scholars, Piper Shifflett and Sara Krivacsy during the first meeting with the head of the Masetoni sub-head and his family. "This was our first time in the Ha-Lambani region, and we were really nervous to be practicing our greetings and proper etiquette when meeting with such important community members. Pictured are Prof. Bessong and Dr. McQuade, along with the sub-head, his wives, one of his daughters and her son. We ended up good friends with the family, and would frequently come to spend time with them when we were in the field. He also brought us to meet with the regional chief, and worked with us to gather population data and anything else we needed for the project."



The infectious Diseases running team, 'Running a Fever'. The team ran in the Jim Ryan Community Bridges 5K in October 2018.



Dr. Bill Petri speaking at the Rotunda at Dr. Jim Ryan's inauguration as UVA's 9th president.



## UPCOMING EVENTS

### *Infectious Diseases & Global Biothreats Research Day 2019*

Monday, February 18, 2019

Keynote speaker: Jeanne Marrazzo, MD, MPH, FACP, FIDSA

Jeanne Marrazzo, MD, MPH, FACP, FIDSA is the Director, Division of Infectious Diseases, C. Glenn Cobbs, M.D., Endowed Professor in Infectious Diseases, University of Alabama at Birmingham School of Medicine