

Director's Message



D' Alessio

Summer in Durham means hot, humid days, Bulls games, and some respite from the usual fast pace of our work in Duke Endocrinology as most people take a well-earned vacation.

One of the summer highlights for the division is welcoming a new crop of fellows and getting them oriented and started on their path to becoming endocrinologists. Under the directorship of Dr. Matt Crowley our fellowship has really taken flight. We get great applicants and we are able to select from a pool of talented and motivated young physicians, this year being no exception.

Maintaining a pipeline of bright, interested trainees is a critical underpinning of our division, as most of us enjoy teaching and the satisfaction of generating the next crop of endocrinologists is a constant source of motivation. Moreover, excellent fellows often make excellent faculty members and one of the central strengths of Duke has been our ability to build through our training programs.

Nationally, growth in endocrinology has been static with a steady census of 6500-7000 specialty trained physicians over the past two decades. Some 200 endocrinology training programs in the United States mint only about 220 new specialists a year, a number that has not changed very much since Coach K won his first national championship.

It does not require complex mathematics to understand that the need for endocrinologic care over that time has not been static, hence the increasing demand for our services. For a chronic disease specialty, managing a steady pressure of new requests on top of a panel of established patients has become a central challenge for the division. And demand for service is not simply more people wanting to see an endocrinologist, it is what they expect once they get an appointment. Electronic records, patient portals, email and the sense that health care should be available 24/7 means that practice does not end once the clinic closes.

Managing the public's new expectations for their health care, or at least their new capacity to pursue these expectations, is our second major clinical challenge. Not unique to endocrinology, not unique to Duke, but a sea change in medical practice that is going to force us all to make some navigational adjustments.

For Duke Endocrinology the response to increased demand for services has been growth. We now have more than 60 specialty providers at three hospitals and two free-standing clinics. We will open a new clinic in Cary next year and have plans to expand further in Wake County. Raleigh has a paucity of endocrinology options that is remarkable for an affluent, growing city.

(continues on next page)

While opening more sites seems straightforward, our goal is to integrate with our health system more efficiently, partnering with other Duke practices around specialty diseases, e.g. thyroid and pituitary tumors, medical oncology, weight loss medicine; and coordinating long-term management with Duke Primary Care to minimize the number of visits patients need to keep up with their health. We adhere to the mantra that 'if you aren't changing, you aren't getting better', and believe that developing new modes of practice is as academic as training fellows and doing research. We think we are getting better.

Hope you are well. Drop by and see us next time you are in town.



David D'Alessio, MD
Professor, Dept of Medicine
Director, Division of Endocrinology
Ph: 919-684-5778 | david.d'alessio@duke.edu

Fellows Corner: Words from the Program Director

It has been another great year for our fellowship. Our first-year fellows – **Drs. Arya Sharifzadeh, Neesha Namasingh, and Randol Kennedy** – have served as the faces of our division on the inpatient wards at Duke and the Durham VA this year. All of our first-years have provided excellent clinical care and are developing plans for their scholarly pursuits. Great job, gang!

Our upper-level fellows likewise continued their outstanding work. **Dr. Felicia Williams** completed her clinical track fellowship in June, after which she entered practice in the Charlotte area. **Dr. Tamara de Souza** pursued an excellent opportunity to join faculty at the University of Miami in July 2023. **Dr. Athavi Jeevananthan** continues as a research fellow this year, and is engaged in exciting work examining provider and patient perceptions about the use of hormone replacement therapy for postmenopausal symptoms. Our lone third-year fellow, **Dr. Lucy Esteve**, entered practice in the Austin, Texas area, where she continues her scholarly pursuits.



Pictured left to right: Drs. De Souza, Williams, and Jeevananthan at the Fellows graduation party.

I am also thrilled to report that we had another stellar recruiting season. Three outstanding new fellows joined us in July 2024:



Courtney Dominguez, MD

Courtney graduated from Texas Tech University Health Sciences Center School of Medicine and completed her Internal Medicine residency at Duke. She served as the 2023-2024 chief resident for Quality and Safety at Duke/Durham VA. Courtney has strong interests in gender medicine and clinical education, and will explore these scholarly areas during fellowship.

Dominguez

Maria Martinez Cruz, MD

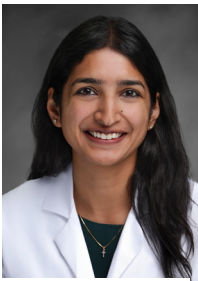
Maria graduated in the top 1% of her medical school class at the Universidad del Zulia in Venezuela. She completed her Internal Medicine residency at Medstar Health Internal Medicine in Baltimore, where she was a chief resident. Maria has extensive experience with clinical and health services research; her work during fellowship will center on health equity and focus on diabetes and obesity.



Cruz

Sarah Jacob, MD

Sarah was a senior internal medicine resident at Washington University in St. Louis with a background in clinical research related to adrenal incidentaloma, and she will explore her interests in diabetes technology, gender medicine, and clinical education during fellowship.



Jacob

Finally, a few other notable recent events to share:

We held our first Duke Endo Fellowship Alumni Happy Hour at Hi-Wire Brewery in January. Going forward, these quarterly events will bring together our current and former fellows for some fun socializing and networking.

We wished Duke legends **Drs. Ann Brown** and **John Guyton** a happy retirement with a party at the Washington Duke in February. This was a wonderful event during which our alumni and other faculty were able to thank Ann and John for all they have meant to our program over the years.

In April, we hosted the North Carolina Endocrinology Fellows Series gathering at Duke Molecular Physiology Institute (DMPI). These sessions bring together fellows and faculty from the Duke, UNC, Wake Forest, and ECU programs to network and present interesting cases. As always, our fellows excelled in this context, demonstrating that we attract some of the best trainees in the country.

Thanks so much to all of our fellows and faculty for making our fellowship thrive! Looking forward to more good times ahead.



Fellows attend NC Endocrinology Fellows Series at DMPI.

Thanks,

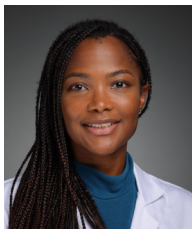
Matt Crowley, Program Director
Traci Womble, Program Coordinator



Tamara De Souza

De Souza

Dr. De Souza is now a certified Bonehead with continued interest in health care disparities affecting patients with disorders of bone mineral metabolism. Tamara has been fortunate to join the Hall lab at the National Institute of Environmental Health Sciences where she is applying genome-wide association studies to a local multi-ethnic patient cohort searching for small variations, called single nucleotide polymorphisms or SNPs, related to bone loss. She joined the department of Endocrinology at the University of Miami Miller School of Medicine as an assistant professor this summer. Prior to departing for Miami, she continued to enjoy participating in community outreach here in Durham and delivered a talk entitled Diabetes Drugs: Finding the Right Fit at the 10th annual Women's Health Awareness conference this spring. Along with her husband Mikhail, she looks forward to welcoming a couple new additions to their family this fall.



Felicia Williams

Williams

Dr. Williams is a second-year fellow in the clinical track. Her interests include general endocrinology as well as a budding interest in thyroid and pituitary subspecialty areas. She completed a project with her mentor, Dr. Susan Spratt, on the effectiveness of a virtual personal health planning program on diabetes distress, hemoglobin A1c, blood pressure and lipid profile in patients with type 2 diabetes. This study is being submitted for publication this year. In addition, she will be joining Atrium Health Endocrinology in Charlotte, NC this fall. In her words, "I am thankful for the educational opportunities I've had at Duke and the amazing people I've had the honor and privilege to meet during my career here."



Lucy Esteve

Esteve

Dr. Esteve's research interests focus on the use of technology for early detection of diabetes and prevention of diabetes related complications. She is working in collaboration with the "Big Ideas Lab" group within the Biomedical Engineering Department at Duke University on the use of wearable devices (particularly smartwatches) for glycemic health monitoring. She is also working with Dr. Jennifer Green on the MASTER study, a remote study that uses thermovisual monitoring devices to reduce the rate of re-ulceration in patients at risk of recurrent diabetic foot ulcers. She is the lead author of a study conducted by Dr. Leonor Corsino looking at a transition of care model for Hispanic/Latino adults with diabetes transitioning from the hospital to the community. The manuscript is currently under review.

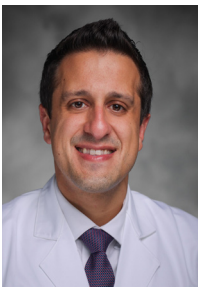


Athavi Jeevananthan

Jeevananthan

Dr. Jeevananthan is a second-year research fellow with interests in menopause, thyroid, and gender medicine. She is investigating providers' perceptions regarding menopause care. She plans to investigate prescribing practices for menopause care at Duke Health. She is assisting in the current women veterans' health evidence map led by Dr. Karen Goldstein (Duke/VA) and an external multi-site project assessing estradiol levels following injectable therapy led by Dr. Aaron Misakian (Stanford). She received Dr. Lewis E. Braverman Education Grant to support her menopause medicine focused external rotation at the University of Utah with Dr. Camille Moreno in the Fall 2024. She received exam scholarship from The Menopause Society to get the Menopause Society Certified Practitioner Certification in 2024. She will be presenting a poster about provider perceptions of menopause care at The Menopause Society Conference in September 2024. She is currently taking classes through Clinical Research Training Program and Learning Health Systems Training Program.





Arya Sharifzadeh

Dr. Sharifzadeh is a first-year fellow on the Clinical Track who has greatly enjoyed his transition to fellowship here at Duke. Highlights of the year so far include learning from all the incredible faculty across the program's training sites, the remarkable variety of pathology encountered on inpatient consult services, and getting to know and care for the wonderful people that make up the greater Durham community at large. He will be joining his first-year colleagues on a QI project that aims to standardize 72-hour fasting protocols at DUH. Tapping into a passion for medical history, he also looks forward to an upcoming project to serialize landmark discoveries in clinical endocrinology through historical vignettes.

Sharifzadeh



Randol Kennedy

So far, Dr. Kennedy has a clinical interest in thyroid disease and thyroid cancer. He has worked with Dr. Afreen Shariff in being a part of a multi-institutional collaboration to develop consensus disease definitions for endocrine immune-related adverse events from immune checkpoint inhibitors. Under her mentorship he has also taken part in a multi-institutional collaborative review article on immune checkpoint inhibitor associated endocrinopathies, which is currently under review. Finally, he presented a case at the endocrine society in June discussing the intricate work up of a "well placed" insulinoma showing multifocal distribution on a selective arterial calcium stimulation test.

Kennedy



Neesha Namasingh

Dr. Namasingh is one of the first-year endocrinology fellows, and is completing the T32 research track. She is interested in studying the role of Endocrine Disruptor Chemicals (EDCs) in the development of T2DM and obesity as well as other reproductive health diseases such as PCOS. She is interested in pursuing a career that marries research, direct patient care, and teaching. She is really enjoying her endocrinology fellowship thus far, and she has really enjoyed getting to know all the endocrine providers.

Namasingh

Duke Endocrine Faculty & Duke Molecular Physiology Institute Members Publish Landmark Studies Sponsored by the NIH Common Fund-sponsored Molecular Transducers of Physical Activity Consortium (MoTrPac).

Duke Endocrinology faculty members, **Drs. Olga Ilkayeva** and **Christopher Newgard** along with other DMPI members **Drs. Bill Kraus, Kim Huffman** and **Mike Muehlbauer** publish the first three papers from a large NIH common fund, MoTrPac Consortium, in *Nature*, *Nature Metabolism* and *Cell Metabolism*.

Please click the link below to read more:

<https://duke.is/8/uswp>



Teamwork at DMPI advances the science behind time-restricted feeding

Modern, cutting-edge metabolic research is multidisciplinary, comprehensive, technically sophisticated, and fast-paced. Breakthroughs occur when diverse groups of scientists with distinct talents, expertise, and viewpoints can exchange ideas freely and solve problems collectively. This collaborative approach to science was on full display in recent work conducted at DMPI.

A team of DMPI investigators explored the role of muscle ketone flux in conferring the health benefits of time-restricted feeding (TRF), a dietary regimen that constrains eating to a specified window of six to 10 hours each day and purportedly promotes metabolic resilience in both animals and humans.

According to the physiology textbooks, ketones produced by the liver during extended fasting periods serve as crucial fuels for the brain. This is because neurons prefer glucose and have limited capacity for oxidizing fatty acids, the alternative energy source used by most cells when carbohydrate supply diminishes. By contrast, skeletal and cardiac muscles have robust fat burning machinery, prompting the DMPI team to question if and why these tissues might need ketones.

Their interests in this topic were further piqued by growing evidence that the principal circulating ketone, beta-hydroxybutyrate (BOHB), confers unique bioenergetic properties, which might underlie reported therapeutic effects of ketones in the context of heart failure and cognitive decline. The study, which was published in the February issue of *Cell Metabolism*, showed that ketone oxidation specifically in skeletal muscles and heart does indeed contribute to TRF-induced metabolic reprogramming. The two co-first authors of the paper, **Drs. Ashley Williams** and **Scott Crown**, along with senior investigator, **Deb Muoio**, professor in the division of Endocrinology, were joined by a multidisciplinary team of scientists with expertise in whole animal physiology, mitochondrial bioenergetics, proteomics, metabolomics, and assessment of metabolic flux using stable isotope tracers.

During the first phase of the project, Dr. Williams found that an intermittent TRF schedule (4 d/wk) resulted in marked systemic adaptations in ketone flux along with improvements in body composition and glucose homeostasis. Dr. Williams states that current clinical studies are trying to figure out if caloric restriction versus the fasting time are important.

“We wanted to see if the actual fasting period is important with rising ketones,” she says. Her studies suggest that oxidation of beta hydroxybutyrate in the fasting state is metabolically beneficial with time restricted feeding. This work is also important given current data also suggests ketone oxidation in the skeletal muscle is important for maintaining lean body mass which is important when considering dietary regimens that promote weight loss.

Application of tools available in the DMPI Proteomics Core, led by **Dr. Paul Grimsrud**, assistant professor in the division of Endocrinology, revealed wide-ranging impacts of TRF on the muscle proteome, including several proteins that regulate mitochondrial energy metabolism. In the second phase of the study, Dr. Williams used mice with muscle/heart-specific deficiency of BDH1, a mitochondrial enzyme required for BOHB oxidation, to show that muscle ketolysis is in fact required for the full adaptive benefits of TRF. The adverse effects of disrupting ketone flux were evident at the level of whole-body lean mass, the muscle metabolome and proteome, and in vitro assessments of mitochondrial bioenergetics. To decipher the underlying mechanisms, Dr. Crown leveraged his expertise in metabolic flux analysis and partnered with DMPI colleague, **Dr. Guofang Zhang**, director, DMPI Metabolic Flux Core, to examine the impact of BDH1 deficiency on mitochondrial trafficking of ketones and fatty acids.

“Skeletal muscle is often considered as a singular entity, but our work has emphasized the importance of fiber-type differences (i.e. oxidative/red fibers vs. glycolytic/white fiber) in ketone metabolism. Specifically, BDH1 expression is markedly greater in ‘red’ compared to ‘white’ fibers,” Dr. Crown said. “Red muscle fibers are higher in mitochondria, more reliant on oxidative metabolism and more vulnerable to BDH1 knock out than their white fiber counterparts.”

This is important given that ketones complement and improve efficiency of fatty acid oxidation under the fasted state. Specifically, the team discovered that loss of BDH1 resulted in elevated acylcarnitine metabolites and high rates of incomplete fat oxidation, both indicative of inefficient lipid catabolism. Together, the findings revealed that muscle ketone flux plays a critical role in fine-tuning and optimizing fat oxidation and mitochondrial respiratory efficiency, which in turn affects molecular and physiological adaptations to TRF. The results bolster the notion that BOHB might serve as a “super fuel” in some circumstances and provide impetus for clinical trials examining the potential of TRF and/or ketone supplements as strategies to improve health outcomes in humans.

Dr. Crown states that it is “broadly important to understand fiber-type effects on metabolic flux as the efficacy of lifestyle and/or pharmacological interventions may vary depending on the targeted/effected muscle fiber-type.”

Dr. Crown continues to work with the Muoio lab to unravel the causes and consequences of incomplete fat oxidation. He is also transitioning to his new role as associate director of the DMPI Metabolic Flux Core, working closely with Dr. Zhang to offer metabolic flux analysis as a shared resource now accessible to the entire Duke community.

These findings laid the groundwork for a new, collaborative NIA-supported pilot study, led by investigators at DMPI and UNC, to examine the feasibility of a TRF intervention in older humans with dementia. Additionally, Dr. Williams was awarded an NIDDK K01 grant to further investigate why TRF and other weight loss regimens improve whole body glucose control. Her current research interests center on diet-induced reprogramming of hepatocyte mitochondria and mechanisms mediating metabolic crosstalk between skeletal muscle and liver.

Leonor Corsino, MD, MHS Connects with Others through Podcasts

Tirzepatide in Hispanic/Latino patients with Type 2 Diabetes

Listen to **Alyson K. Myers, MD** and **Leonor Corsino, MD** discuss a recent #JCEM article (<https://bit.ly/4cyn16D>) on #tirzepatide in Hispanic/Latino patients with #type2diabetes (<https://bit.ly/43RabwB>).

Endocrine Society-EFL047

Endocrine Feedback Loop Podcast

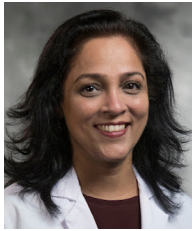
Finding Joy in Academia with Dr. Leonor Corsino

The Clinician Researcher- May 6, 2024

<https://www.clinicianresearcherpodcast.com/finding-joy-in-academia-with-dr-leonor-corsino/>



Duke Adrenal Section with a focus on Dr. Sona Sharma



Sharma

Duke Endocrinology was very fortunate to recruit Dr. Sona Sharma to Duke in 2019. She manages a variety of adrenal disorders, both common and rare, including adrenal insufficiency, congenital adrenal hyperplasia, primary hyperaldosteronism, adrenal Cushing's syndrome, and adrenal gland related tumors like adenomas, paragangliomas, pheochromocytomas, and adrenocortical carcinomas.

Her consultative practice receives referrals not only from the surrounding community but also from other academic institutions and several states in the southeast. Tumors related to the adrenal glands, such as pheochromocytomas, paragangliomas, and adrenal cancers, require extensive expertise from an endocrinologist and other specialists. Their management necessitates comprehensive communication and coordination for intricate preoperative preparation, meticulous intraoperative management, and vigilant postoperative follow-up.

Dr. Sharma collaborates with numerous specialists at Duke University, including endocrine surgeons, urologists, medical oncologists, thoracic surgeons, head and neck surgeons, radiation oncologists, nuclear medicine experts, and cancer genetics, orchestrating a multidisciplinary approach to ensure comprehensive care for patients with adrenal disorders.

Additionally, Dr. Sharma and Anica Land, NP, have partnered with the Duke Pulmonary Center of Excellence for Asthma to run a collaborative clinic for glucocorticoid-induced adrenal insufficiency. Some of these patients need to be seen urgently, so Dr. Sharma and Anica Land, NP, have created urgent slots for these patients so that they can be evaluated and treated in a timely fashion. "We follow evidence-based medicine in providing safe, effective, and comprehensive care to our patients with glucocorticoid-induced adrenal insufficiency," Dr. Sharma said.

Internationally, Dr. Sharma is a member of the Endocrine Society Adrenal Pituitary Special Interest Group(SIG). As a committee member of this SIG, her contributions include organizing webinars and events, and reviewing abstracts for annual meetings. She recently published an article on Diagnosis and Management of Pheochromocytomas and Paragangliomas in Endocrine Practice. Dr. Sharma also started an Adrenal Special Interest Working Group at Duke to help with adrenal-related QI initiatives and to improve protocols and processes for managing adrenal care at Duke. In future, Dr. Sharma plans to develop a nationally recognized multidisciplinary program for management of pheochromocytoma and paraganglioma at Duke.

Duke Thyroid Section with a focus on Dr. Todd Frieze

Duke Endocrinology welcomed Dr. Todd Frieze to the Duke Thyroid team in January 2023. Dr. Frieze is the director of Duke Thyroid Services. Prior to coming to Duke, he was a leading expert in thyroid disease for over two decades and has performed more than 20,000 ultrasounds and 5,600 fine needle aspirations (FNAs).

Since coming to Duke, Dr. Frieze has expanded our FNA services by operating two clinics per week. In the near future, he plans to provide additional nonsurgical options for thyroid neoplasia via thermal ablation techniques with the first being RadioFrequency Ablation (RFA). Dr. Frieze hopes, "I will be the medical driver of our one-stop clinic that will streamline and improve our diagnostic and follow-up care."



Dr. Frieze presents at Endocrine Society event.

(continues on next page)

Dr. Frieze also collaborates closely with Endocrine Surgery and ENT through the Duke Cancer Institute Endocrine Neoplasia Program. “The dual approach of having an experienced thyroidologist working in the same clinic the same day with thyroid surgeons is very beneficial for our patients,” he said, given, “we can see them during the same visit.” In addition to collaborating with endocrine surgery, he works closely with nuclear medicine, pathology, radiation oncology, radiology, and medical oncology to coordinate patient care.

In Dr Frieze’s short time at Duke, he has started many initiatives to improve thyroid care including dynamic thyroid protocols, lab assays, and nuclear medicine protocols. Nationally, he works closely with many thyroid and endocrinology subspecialty experts and has been a leader in bringing in national speakers to our weekly Duke Endocrinology Grand Rounds. He also speaks nationally about Thyroid Eye Disease (TED) and hopes to establish a multi-disciplinary TED clinic in the future.

Diabetes Clinic Teaches Duke Students How to Better Care for Diabetes Patients with Social Determinants of Health.

The interprofessional Diabetes Team at the Duke Outpatient Clinic (DOC) has entered its sixth year in taking a team-based approach in the management of complex patients with diabetes who are not meeting glycemic goals.

The Diabetes Clinic team members include **Dr. Diana McNeill** as the primary preceptor with faculty rotations including **Dr. Tracy Setji** and **Dr. Beatrice Hong**. In addition to teaching faculty, core team members include **Ally Rhinehart, PA** (Duke Endocrinology) and **Valerie Keck, NP** (DOC), clinical pharmacist practitioner **Holly Canupp** (DOC), clinical social workers **Jan Dillard** and **Elissa Nickolopoulos** (DOC), pharmacy technician **Catherine Snyder** (DOC), and our CDCES **Nancy Lelle-Michel** (Duke Endocrinology). The core learners rotating through the clinic include Duke internal medicine residents and endocrinology fellows. The team provides medical care, but also focuses on the socioeconomic barriers that strongly impact diabetes control.

The clinic is held twice monthly and starts off with a group pre-clinic huddle where thoughtful discussion occurs about each individual patient’s mental health needs, food and/or housing insecurity concerns, and medical comorbidities. Most of the Diabetes Clinic patients will see both the medical or pharmacy provider and the clinical social work team at each visit. The interprofessional nature of the diabetes team allows for a better understanding of the roles and value of each team member and increases competency in the management of diabetes patients with several concerns involving social drivers of health.



Dr. McNeil and Rhinehart hold pre-clinic huddle with trainees

Honors & Awards

Diana McNeill, MD, Professor of Medicine received the 2024 Department of Medicine Career Achievement Award

Nicole Jelesoff, MD, was inducted into the 2024 Department of Medicine Clinical Excellence Society

Anna Schaffer, NP, was awarded Fellow status with the National Lipid Association (FNLA)

Tracy Setji, MD, MHS, was awarded the 2024 Department of Medicine Excellence in Education Award

Afreen Shariff, MD, was awarded Clinical Innovation Award in partnership with City of Hope

Promotions

Bryan Batch, MD, promoted to Professor of Medicine

Jessica Cannavino, PhD, promoted to Assistant Professor of Medicine

Richard Lee, MD, promoted to Associate Professor of Medicine

Kathryn Kreider, DNP, promoted to Clinical Professor at Duke University School of Nursing

Kathryn O'Donnell, MD, promoted to Medical Director of Endocrinology Clinic 1A

Afreen Shariff, MD, promoted to Associate Professor of Medicine

Susan Spratt, MD, promoted to Professor of Medicine



Setji & Criscione-Schreiber



McNeill & Cooney



Jelesoff & Brady

Special Promotion & Award

Bryan Batch, MD, is the new Faculty Director for the Duke NCCU Bridge Office. The NCCU Bridge Office recently won a NIH DEIA Prize competition.

See link below:

<https://duke.is/5/surz>



Batch



Shariff

National Presentations

SUMMER 2024

U.S. Professional Association for Transgender Health (USPATH) conference

McNeil JA, Eleazer J, Seevers J, Gombos E, Kelley C, Change A. The development and implementation of a community-based research advisory committee for a prospective cohort study of transgender and gender diverse individuals. Poster presentation at the USPATH Scientific Symposium, November 2023.

Kelley CE, Parnell HE, Weinhold A, LeGrand SH. Asynchronous online focus groups for improving participation in transgender and gender diverse health research. Poster presentation at the USPATH Scientific Symposium, November 2023.

American College of Physicians (ACP) Annual Meeting

C. Kelley. Endocrine Update. Invited Lecture. ACP annual meeting. April 19, 2024. Boston, MA.

Pediatric Endocrine Society 2024 Annual Meeting

N. Hernandez, Q. Wang, H. Hong, O. Ilkayeva, M. Muehlbauer, D.S. Hsia, J.R. Bain, M. Freemark, and P. Gumus Balikcioglu. "Metabolic signatures associated with insulin resistance and insulin secretion in non-diabetic youth: Metabolomic profiling and principal components analysis." Accepted for an oral presentation, Pediatric Endocrine Society, Annual Meeting, May 2-5, 2024, Chicago, Illinois.

ENDO 2024, Annual Meeting of the Endocrine Society

R. Kennedy, D. D'Alessio, A. Vella. "Find me if you can! A Case of a "Well Placed Solitary Insulinoma" in "The Center" of an SACST". Poster Presentation, ENDO 2024, annual meeting of the Endocrine Society, June 1-4, 2024, Boston, MA

Misakian AL, Kelley CE, Sullivan EA, Chang JS, Singh G, Jelinek SK, Kokosa S, Avila J, Cooper H, Liang JW, Botzheim B, Quint M, Jeevananthan A, Chi E, Harmer M, Hiatt L, Kowalwski M, Steinberg B, Tausinga T, Tanner H, Ho TH, Mark B, Zenger B, Hu S, Gebregzabheir A, Penny JM, Loeb DF, Strickland T, Iwamoto SJ, Rothman MS, Hamnvik OPR, Ariel D. Injectable Estradiol Use In Adult Transgender And Gender Diverse Individuals Throughout The U.S.: A Multisite Retrospective Study. Poster presentation, Endocrine Society Annual Meeting 2024, June 1-4, 2024, Boston, MA.

H. Cunningham, Q. Jones, and C. Kelley. Supplement Use Among Transgender Patients: Case Reports and Literature Review. Poster presentation. Endo 2024, annual meeting of the Endocrine Society. June 2, 2024. Boston, MA.

Christina Zhou, PA-S; Quinnette Jones, MSW, MHS, PA-C; Sarah Kokosa, PharmD, MHA; Carly Kelley, MD, MPH, ECN. "Estrogen Monotherapy for Testosterone Suppression in Gender Diverse Patients." Poster presentation, Endocrine Society Annual Meeting 2024, June 1-4, 2024, Boston, MA.

72nd ASMS [American Society for Mass Spectrometry] Conference on Mass Spectrometry and Allied Topics

D. Hill, M.J. Muehlbauer, D.E Lee, M. Strain, N. Rasmussen, S. Baumann, D.J. Cuthbertson, S. Hoy, L.M. Vucetich, R. Peterson, J.A. Vucetich, K. Koitzsch, L.O. Koitzsch, and J.R Bain. "Metabolomics of urine gathered from wilderness snow correlates with nutritional status of wild moose, *Alces alces*, on Isle Royale, Michigan." Accepted for an oral presentation at the 72nd ASMS [American Society for Mass Spectrometry] Conference on Mass Spectrometry and Allied Topics, June 2-6, 2024, Anaheim, California.

American Diabetes Association

Alexopoulos AS, Danus S, Parish A, Olsen M, Batch BC, Moylan CA, Crowley MJ. Feasibility and Acceptability of an Intervention to Improve Metabolic Liver Disease in Latino/a and Black patients with Diabetes. ADA, 84th Scientific Sessions, June 2024.

Bell, L., Musser, R., Frankes, J., Hong, B., McMillan, K., and Setji, T. "Active Surveillance for Patients at Risk for Euglycemic DKA from SGLT-2i." ADA, 84th Scientific Sessions, June 2024.

Matthew Crowley. "Using Telehealth to Improve Diabetes Control in Real-World Practice." ADA Diabetes Care Symposium—The Final Frontier—Implementing the Learning from Implementation Science. ADA, 84th Scientific Sessions, Saturday Jun 22, 2024 8:00 AM - 9:30 AM

Matthew Crowley. "Telehealth Interventions to Improve Outcomes in Veterans with Diabetes." United States Veterans and Diabetes—Not Gone and Not Forgotten. ADA, 84th Scientific Sessions, Friday Jun 21, 2024 3:45 PM - 5:15 PM





Recent Publications

See a listing of recent publications on our website:

<https://duke.is/g/nsvv>

Paying it Forward → → →

How to Give Back to Duke Endocrinology

The possibilities for advancing all aspects of our mission are virtually limitless. We invite you - our faculty, staff, former trainees, and friends - to join us in shaping the future of endocrinology. Generous supporters like you will make it possible for us to open doors of discovery that might otherwise remain closed, and train tomorrow's leaders in endocrinology. To find out how you can partner with us, please contact Duke Health Development and Alumni Affairs: 919-385-0059, gregory.bolwell@duke.edu



In Memory of Duke Endocrinology Nurse Gina Gammell

Gina Gammell, RN, was a beloved member of our Duke Endocrinology clinic 1A for almost a decade. She was a gentle and loving person who prided herself on patient care and education. She also was a great support figure for the providers and co-workers who knew her and worked closely with her. Her smile could warm up a room and bring peace to those around her.

Please help keep Gina's memory and legacy alive by supporting the Gina Wagstaff Gammell Memorial Nursing Education Award! This is a Duke University Health System Ambulatory Services award to help provide funds for employees seeking a nursing degree. To find out more, visit <https://duke.is/b/qu7y>

Comments to the Editor

We would love your feedback! Please send us comments, suggestions and ideas for additions to our newsletter! Jennifer Rowell, MD, has been the director and editor of the EndocriNEWS since 2020. Please send feedback to her at jennifer.rowell@duke.edu