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It is with mixed emotions that I write what will be my last chair’s message for the annual report. I have been doing this for more than 20 years, and now a new chair has been selected. J. Nwando Olayiwola, MD, MPH, assumed the position as chair of the Department of Family Medicine at The Ohio State University Wexner Medical Center, effective September 1, 2019. At that time, we turned the leadership over to her, allowing me to focus on my responsibilities as the Executive Physician Consultant for the Health System’s Ambulatory Services.

Holly Cronau, MD, also retired from the Department in December 2018. Holly joined the department in 1995 and served as our Director of Medical Student Education for many years. She received many awards over the course of her career and has also led several pre-doctoral grants. Her honors include Ohio State Family Medicine Residency Teacher of the Year Award and the Ohio Academy of Family Medicine Physician Educator of the Year award.

We will surely miss her leadership.

We have had several promotions in the department and are extremely proud of our faculty:

Dr. Randy Wexler was promoted to Professor of Family Medicine
Dr. Bethany Panchal was promoted to Associate Professor of Clinical Family Medicine
Dr. Shalina Nair was promoted to Associate Professor of Clinical Family Medicine
Dr. Riza Conroy was promoted to Associate Professor of Clinical Family Medicine
Dr. Anosheh Behrooz was promoted to Associate Professor of Clinical Family Medicine
Dr. Bushra Siddiqi was promoted to Associate Professor of Clinical Family Medicine
Dr. Rebecca Grant was promoted to Associate Professor of Clinical Family Medicine

Dr. Joel Wood was recently named Fellow of the American Academy of Family Physicians by the Academy’s Commission of Membership and Membership Services. Dr. Wood will attend a Fellowship Convocation Breakfast in Philadelphia, PA this fall.

Dr. Milisa Rizer was chosen a Fellow of the American Medical Informatics Association. She was part of the inaugural class of fellows and was inducted at their annual conference in April.

Dr. Robert Crane is a Clinical Professor of Family Medicine in our department and has been working diligently for the national Tobacco 21 initiative. He is the founder and president of the Preventing Tobacco Addiction Foundation, an organization dedicated to increasing awareness of the risks of nicotine addiction and secondhand smoke, and raising the legal minimum sale age for all nicotine products to age 21. He is also the recipient of the 2011 Public Health Award from the American Academy of Family Physicians and the 2014 C. Everett Koop Award from the American Lung Association. We congratulate Dr. Crane on his recent successes in this work.

Cynthia Sieck, PhD was awarded an NIH R01 grant for “Total Engagement and Activation Measure (TEAM): Developing a measure of the capacity for patients to engage in their health care.” The $2,442,898 grant included Ann McAlearney, ScD, Tim Huerta, PhD, Dan Walker, PhD and Mary Jo Welker, MD from the Department.

In January 2019, the department opened its third Walk-In Care site. Locations include Upper Arlington, Worthington, and Outpatient Care East. These clinics are staffed by nurse practitioners to provide timely care to our patients as well as individuals from the community. They had a very successful year and were able to care for over 13,000 patients in FY19.
Fellowship Update for The Department of Family Medicine:

- Our Sports Medicine Fellowship continues to fill with quality applicants with an excellent teaching environment.
- We have added the Clinical Informatics Fellowship which is done in conjunction with Nationwide Children’s Hospital and supported by the IT faculty at both institutions.
- We are in the third year of our Psychology Fellowship and are excited about this and the undergraduate psychology students that we train in our practice environment.
- Effective August 1, 2019 we started our Integrative Medicine Fellowship with our first fellow, Dr. Kristen Phillips.
- We hope to begin an Ultrasound Fellowship in July 2020 in collaboration with our Department of Emergency Medicine.

The three-year Primary Care Track program in our department is doing well. We matched four students who started in July 2019 and are well on our way with the first two classes in this program. It was also featured in Ohio Patient-Centered Primary Care Collaborative’s (OPCPCC) winter newsletter.

Dr. Faraz Ahmad, Clinical Assistant Professor of Family Medicine, was recently selected for STFM’s Emerging Leaders Class of 2020. The yearlong Emerging Leaders Fellowship provides essential leadership training and support to family medicine educators.

Dr. Aaron Clark, Associate Professor of Clinical Family Medicine and Associate Chair, accepted a nomination from the American Osteopathic Association to serve on an AHRQ expert panel being conducted by the RAND Institute. The purpose of this panel is to convene a diverse set of expert stakeholders to assess the current state of federally-funded primary care research (PCR), and to identify research gaps, areas of overlap, and strategies to improve the coordination of the Federal PCR enterprise.

Residents, faculty, staff, and family members came together to celebrate the graduation of the Class of 2019. We filled in the match for the next residency class and they started in June with orientation and plans for the coming year.

Dr. Rebecca Grant has established a Family Medicine Teen Clinic to better serve our adolescent population within Columbus. Ohio State Family Medicine is committed to expanding services to provide a personal medical home to teenage patients where they can transition seamlessly into adult care. Adolescent care is a passion for Dr. Grant, which was cultivated through her residency training here at Ohio State. She honed these skills while working at Nationwide Children’s Hospital Teen Clinic for the past several years, with a focus on serving at-risk youth.

Mindfulness in Motion was created by Maryanna Klatt, PhD here in the Department of Family Medicine. Now The Ohio State University Wexner Medical Center has embarked on an initiative to help Faculty and staff mitigate the impact of stress and to build resilience through offering the program as part of the larger Gabbe Health and Wellness Initiative that began July 2018. Mindfulness in Motion is an evidenced-based 8-week, one hour a week program that is offered both at the main hospital campus and various ambulatory sites. A nutritious meal is provided at each session as part of the program.

Through Mindfulness in Motion participants will learn how to:

- Improve sleep quality
- Eat mindfully
- Be more present with your patients and at home
- Change your reaction to stress
- Be aware of your body and inner experience through mindfulness
The program has been shown to significantly:
- Increased resilience
- Increased work engagement
- Decrease burnout (22-26% decrease thus far!)
- Decrease perceived stress.

January 18 saw the successful kick-off event of the Family Medicine Leadership Excellence and Development (LEAD) program. This event was the start of a yearlong leadership development program for our Family Medicine lead physicians and practice managers. Dr. Scott Graham, Dr. Aaron Clark, and Christine Harsh led the group through a series of self-assessment and relationship building exercises. As the year progressed, this program provided monthly sessions with a curriculum to include such topics as emotional and social intelligence.

We are starting to work on social determinants of health with two initiatives that will come to fruition in the coming fiscal year:

- First is the MidOhio Farmacy done in conjunction with the MidOhio Food bank. This will help our patients with food insecurity to obtain fresh produce weekly rather than monthly. We will pilot it at the Outpatient Care East site in September and then expand to other sites across the medical center. This is being done with grant dollars from our Upper Payment Limit funds.
- Second is the start of Medication Assisted Therapy (MAT) in family medicine for those patients with addiction issues. This is done in collaboration with our substance abuse program in the department of psychiatry who are graciously working with us to expand the access to these services.

**Financial Performance**
- Family Medicine saw 179,284 visits in FY19 across all locations.
- We ended the year within 1% of our budgeted gain/loss target.
- A notable success story is Ohio State Integrative Medicine and the turnaround of their financial status in beating their FY19 budget by 96.0%! Strategic interventions and a partnership with the VA helped them increase their volumes and provide VA patients with much needed access to integrative care. Congratulations to this team on this turnaround!
- Our patient satisfaction scores continued to improve and the department finished the fiscal year with a score of 94.2% through June 2019.

**Talent and Culture**
We recruited the following providers to the department in FY19:
- Larry Nolan, DO - Gahanna
- James E Questel, DO - Gahanna
- Michael Williams, DO – Gahanna
- Nevraj Pannu, MD - Upper Arlington
- Nicole Hollingshead, PhD – Upper Arlington
- Jamie Robinson, MD - Worthington
- Gregory Jungwirth, MD - Worthington
- Amanda Pannu, MD – Rardin
- Sophia Tolliver, MD – East
- Risa Long, PhD – East
- David Banas, MD – Lewis Center

In addition, we have welcomed the following new staff to our management team:
- Elizabeth Lanker, Practice Manager, New Albany
- Rhonda Wright, Practice Manager, Lewis Center
- Allison Beedy, Practice Manager, Total Health and Wellness
- Michelle Courter, Care Coordination Manager, Family Medicine
- Greg Schwitzgable, Program Manager, Family Medicine
**Welcome from Dr. Olayiwola!**

It is such an honor to assume the role as the new chair of the Department of Family Medicine, effective September 1, 2019 and to follow in Dr. Welker’s footsteps leading this Department to where it is today.

As I reflect on the many accomplishments of this department over the past year, I am amazed by the passion, interests, and tenacity of our faculty, clinicians, staff and residents, as well as the commitment to our students. There are so many successes highlighted in Dr. Welker’s letter and the rest of this report, which should make us all proud.

The energy that this department demonstrates towards clinical excellence, research and scholarly activity, community and public health, caring for vulnerable populations, addressing the social determinants of health, health policy, wellness, resilience, inter-professional collaboration and educating and inspiring the next generation of family physicians is impressive.

As we look forward to this next year, I am confident that we will continue to expand our efforts and impact at the College of Medicine, The Ohio State Wexner Medical Center, central Ohio and beyond, and look forward to partnering with you all as we soar in family medicine excellence together.

Thank you for all of the hard work that you do every day, and let’s have a great year!

Sincerely,

Nwando
Family Medicine Services

John, McConaghy, MD, Vice Chair, Quality and Randy Wexler, MD, MPH, Vice Chair - Clinical Services, continue to lead our family medicine services along with our lead physicians for our family medicine practices including: Riza Conroy, MD, Balpreet Jammu, MD, William Buoni, MD, Faraz Ahmad, MD, Janice Westphal, MD and Joel Wood, MD. Under their leadership, we continued our work towards improving the health of our patient population.

Family medicine practices are in year three of Medicare’s Comprehensive Primary Care Plus (CPC+) program, a national advanced primary care medical home model created to strengthen primary care through payor reform and the transformation of care delivery. There are only 2900 offices nationwide that have been accepted into this program. The cornerstone of the program is a monthly per member per month care management fee that is utilized to help build a team-based infrastructure to support patient care. As such we have been able to integrate, and recently expand our team of pharmacists, diabetes educators, dieticians, mental health providers and care-coordinators embedded into all of our practices. We also use CPC+ data to make clinical and strategic decisions as to where to evolve touchpoints of care. Based on this data we saw a higher rate of ED utilization in two geographic areas where we care for patients. Because of this, we opened walk in clinics at those locations. Preliminary data shows a reduction in ED utilization as hoped. We also participate in Ohio’s CPC program (OCPC) which is the Ohio Department of Medicaid’s version of CPC+. As part of this program medical groups are required to pass a minimum of 10 out of 20 quality metrics. Our Practice Improvement and Quality Committee and managers from the family medicine practices meet monthly to address quality and practice improvements through multiple initiatives. These initiatives weave together the mandates of the CPC+ program, regulatory mandates, value-based contracting, the electronic health record (EHR) and population health, to develop robust, team-based, coordinated care processes of patients and populations with the goal of maximizing patient care quality and value. We are now evaluating whether to opt in for the Ohio CPC Kids version of this model.

We have preliminary data from our eVisit pilot. An eVisit is an electronic patient visit whereby through our patient portal, patients may communicate to their provider about common, and often minor problems. This can include upper and lower respiratory tract infections, diarrhea, back pain, and headaches.

The branching logic of the questionnaire means that answers and questions will be varied, even if the patient starts out with the same symptoms, thereby ensuring each presenting symptom is not automatically treated the same. During the pilot, 80% of patients who used this type of visit did not need to seek face to face care for that problem. This will be rolled out to all of primary care going forward. We continue to employ video visits mainly in the areas of pharmacy reconciliation, undertaken by our clinical pharmacists, as well as
care coordination efforts led by our nurse care coordinators. In an ongoing effort to enhance patient care in our offices, we are utilizing Upper Payment Limit grants focused on diabetes and blood pressure management. We began deploying hand held retinal scanners to our offices and will eventually have this equipment in all locations.

We are now in the process of adding community health workers to the team to help us engage patients with a better understanding of their socio-economic needs and barriers to care.

The department is working with the AAMC on Project CORE “Coordinating Optimal Referral Experiences”, through the use of eConsults. An eConsult is a PCP-initiated, electronic communication tool sent to a specialist in order to get their recommendation to further advance a diagnostic and/or management plan for a patient. This model of care aims to improve both access and quality of care while reducing overall costs by improving communication and coordination of care between PCPs and specialists. These asynchronous visits utilize condition-specific templates with branching logic to allow for improved integration of care with easy and efficient communication between providers. The eConsults program was initially implemented in 2017 with dermatology and has since expanded to other specialties in 2018 and 2019. The implementation process starts with a kickoff meeting to introduce the program to the specialists, review their referral patterns, and discuss appropriate conditions. The next phase is template development to ensure the templates have the required information and data necessary for the specialist to make a recommendation but that they also meet the PCPs specifications to promote high user satisfaction and repeat utilization. The last phase is where we “go live” after which continued QA is necessary to ensure a successful program. We are currently “live” with eConsults for dermatology, pulmonary, gastroenterology, otolaryngology, hepatology, hematology, and nephrology. We are in planning stages with endocrinology, cardiology, urology, psychiatry, neurology, general surgery, rheumatology, and wound care. We are in discussions with several other specialties and we aim to continue to expand this program.

Departmental quality improvement (QI) and practice improvement (PI) initiatives and education are also integrated into our family medicine residency and medical student curricula. Our residency continues to develop a robust quality and patient safety curriculum and students participate in the Advanced Health Systems Plus (AHSS+) (previously called Health Systems, Informatics, and Quality Project -- HSIQ) longitudinal experience. These curricula are designed to create competency in the delivery of safe, timely, effective, efficient, equitable and patient-centered care as defined by the Institute of Medicine. One arm of a current Health Resources and Services Administration (HRSA) grant partners medical students and residents to work on QI and PI in the practices. For example, medical students, as part of a multidisciplinary care team work with high utilizing patients, (often known as hot spotters), to help them better navigate the health care system and reduce utilization in cost. As a result of these collaborations, the department of family medicine exceeds central Ohio averages in the vast majority of metrics tracked. Finally, we partnered with the OSU Health Plan to improve depression screening rates in our practices.
**Dietetics and Nutrition**
Over the past year, the nutrition team grew to three full-time Registered Dietitian Nutritionists. Each family medicine office as well as our Integrative Medicine office has weekly coverage by one of our dietitians. The dietitians meet individually with patients to discuss how their food choices are impacting their health. The dietitians work collaboratively with each patient to develop realistic lifestyle changes to support health goals. Follow-up appointments are encouraged to support lasting behavior change. Additionally, our dietitians are involved in group education for patients with pre-diabetes and diabetes.

**Pharmacists**
The clinical pharmacy team has a presence at each family medicine office and continues to collaborate with physicians and nurse practitioners to provide diabetes management and education, medication therapy management for patients with complex medication regimens, and tobacco cessation counseling and management. Pharmacists also serve as medication specialists, answering questions regarding drug interactions and dosing, and assisting the providers with other additional disease management (hypertension, hyperlipidemia, COPD, CHF) as needed. The team assists with value based metrics as part of CPC+, ensuring patient are receiving cost-effective and appropriate care.

**University Health Service**
The department continues to have faculty provide services at University Health Services which is a clinic that is located on the medical center campus and is available for faculty, staff and dependents covered by the OSU Health Plan. This past year, we continued the transition from primarily an urgent care clinic to a better mix of urgent and primary care at this location through the addition of primary care clinical time.

**Occupational Medicine Services**
We continue with our occupational medicine services through our management of the Employee Health Clinic which covers the entire university, as well as our Occupational Medicine at our Outpatient Care East practice that covers both occupational health needs as well as serves the refugee community of the City of Columbus and Franklin County. Additionally, we have several contracts where we cover onsite occupational services.

**Geriatric Services**
During the 2018-2019 year, Dr. Mack continued as medical director at Heartland of Dublin and Heartland of Westerville Skilled Nursing Facilities, which have been our teaching facilities for long-term, post-acute, and hospice services since 2014. Medical students, family medicine and internal medicine residents, and geriatric fellows rotate in these facilities. Dr. Mack also continues as a team physician with Heartland Hospice, as an Inpatient Geriatric Consultant, as faculty with the Ohio State Geriatric Medicine Fellowship, and nationally as a faculty member for the Core Curriculum of Certified Medical Directorship with the Society for Post-Acute and Long-Term Care Medicine.
Psychology and Behavioral Health

The Department of Family Medicine was again fortunate enough to have clinical psychology practicum students from the Ohio State Clinical Psychology doctoral program place with family medicine for the 2018-2019 year. These students, Briana Brownlow, MA, Gina Gerardo, MA, and Jacob Landers, MA, worked under the direct supervision of Dr. Scott Olenick at Worthington Family Medicine. Practicum students saw family medicine patients to address a broad range of behavioral health concerns including depressive and anxiety disorders, bipolar disorders, obsessive-compulsive disorders, and posttraumatic stress disorders utilizing empirically supported treatments. Students also completed integrated assessments for Attention Deficit Hyperactivity Disorder (ADHD) and other psychological issues upon referral from providers from the departments of family medicine and sports medicine. Each practicum student received one hour of individual supervision per week and one to two hours of group supervision per week for the entire year. Group supervision was dedicated to enhancing students’ clinical knowledge and skills through didactic trainings and case conceptualizations. In total, students provided 791 hours of individual counseling, conducted 178 initial psychiatric evaluations, and performed 16 ADHD evaluations for family medicine patients.

In addition to the student trainees, we continued to recruit additional behavioral health professionals including LSIW staff to help with the integration of behavioral health at our locations that are not currently covered by one of our psychologists or psychiatrists. There are social workers employed within family medicine. Each of them is a licensed independent social worker (LISW-S). The social workers provide individual counseling, complete brief interventions during the doctor appointments, following up with at risk patients, and assist with linkage to community resources. Referrals are made from the PCP and range from depression, anxiety, trauma, insomnia, chronic pain, and weight issues. Treatment modalities that are used include cognitive behavioral therapy, acceptance and commitment therapy, behavioral therapy and psychology education.
Community Partnerships

We continue to enhance existing, and develop new and innovative partnerships with community agencies in the central Ohio region. These partnerships provide clinical and educational opportunities for our department. Clinically, we now have three faculty physicians (Drs. Robinson, Questel and Rastetter) who are providing care in local area Federally Qualified Health Centers (PrimaryOne Health and Equitas Health). From an educational standpoint, we are starting into our fourth consecutive year of a very successful pediatric emphasis longitudinal clinic training for the Urban Track Family Medicine residents at PrimaryOne Health. Utilizing preceptor faculty from the department, this collaboration has continued to contribute to the high quality training our residents receive by providing opportunities for enhanced pediatric care experiences. Additionally, there continues to be collaboration on the HRSA Primary Care Training and Education (PCTE) grant which has resulted in clerkship rotations for medical students training alongside advanced practice registered nursing students from the College of Nursing at several PrimaryOne Health sites.

2019 also brings the start of a new and innovative partnership with the MidOhio Food Bank. Called the MidOhio Farmacy, this program creates a mechanism for high risk patients who screen positive for food insecurity to be linked to enhanced access to free fresh produce. Patients with uncontrolled hypertension, diabetes and/or obesity are being screened for food insecurity. If positive, they are linked to the MidOhio Farmacy program. This partnership project allows us to close the community resource referral loop thereby making screening for food insecurity a meaningful activity which we can track and evaluate for effectiveness over time. This project has broad health center support and is poised for hopeful expansion to larger populations of patients over the coming years.

Finally, a strong partnership between our department, the College of Pharmacy, our General Internal Medicine and Addiction Medicine colleagues and the Ohio University Physician Assistant Program led to the development of a successful opiate use disorder grant submission to the Health Resources and Services Administration. Unfortunately despite a high application rating and project approval, funding allocations ran short and for the moment this initiative remains unfunded. Work is being done to develop alternative funding resources and if successful, would allow for the creation of a high quality hub for medication assisted treatment utilizing a primary care team based approach to combating the opiate crisis here in central Ohio. In preparation for these next hopeful steps, we now have numerous faculty with DATA waivers who will being prescribing medication assisted treatments for opiate use disorder across several of our clinical locations over the coming year.

Primary One Health

A collaborative relationship with PrimaryOne Health has continued to grow. While both Mark Rastetter MD and Jamie Robinson MD have been providing clinical care, our third year Urban Track family medicine residents continue to rotate there for a longitudinal pediatrics experience  PrimaryOne Health is a central Ohio based Federally Qualified Health Center (FQHC) with 10 locations serving those in the community who experience financial, social or cultural barriers to health care. This collaboration has helped to build on the strong foundation of clinical care, resident/student training and clinical research missions of the Department of Family Medicine. 2019 will mark the beginning of the fourth consecutive year of pediatric longitudinal clinic training for the Urban Track Family Medicine residents at the Agler Road PrimaryOne Health clinic location. Utilizing preceptor faculty from the department, this collaboration has contributed to the high quality training our residents receive by providing opportunities for enhanced pediatric care experiences.
Family Medicine at Rardin

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John McConaghy, MD
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Fred Miser, MD
Bethany Panchal, MD
Amanda Pannu, MD
Milisa Rizer, MD
Kristen Rundell, MD
Ernesto Ortiz-Cruzado, MD
Janice Westphal, MD
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Bryant Walrod, MD
**Sports Medicine Clinical Services**

James Borchers, MD, MPH continues to serve as the Director for the Division of Sports Medicine in our department as well as the Clinical Lead for the Ohio State Sports Medicine multispecialty group.

Ohio State Sports Medicine Center, a multidisciplinary treatment center, offers family medicine, orthopedics, physical therapy, psychological and nutritional counseling services by individuals trained and experienced in dealing with competitive and recreational athletes. This expertise is applied to patients who are physically active or wish to embark on a healthier lifestyle. The Department of Family Medicine is a partner with the Department of Orthopedic Surgery at the Ohio State Wexner Medical Center.

During the 2018-2019 year, our faculty covered services at the Jameson Crane Sports Medicine Institute, Outpatient Care Stoneridge, Outpatient Care Lewis Center, and Healthy New Albany in the outpatient setting. Drs. James Borchers, Kendra McCamey, Steve Albrechta, Bryant Walrod, Nicole Korneder, and Clinton Hartz provide therapeutic and diagnostic ultrasound to patients. Primarily, ultrasound is used for guided procedures. Sports Medicine receives many referrals for hip injections, SI injections, piriformis injections as well as requests to help with difficult knee and shoulder injections. The physicians also provide orthobiologics platelet-rich plasma injections for musculoskeletal conditions.

The Sports Medicine Center provides care for all 36 varsity sports at Ohio State. Faculty members of the division provide comprehensive care for all athletes at Ohio State along with event coverage for the entire athletic department. Dr. Borchers serves as Head Team Physician. Drs. Kendra McCamey, Bryant Walrod, Ray Pongonis and Clint Hartz joined him to serve at team physicians for Ohio State Athletics. Ohio State Sports Medicine provides medical coverage for Ohio State Club and Recreation Sports, the ROTC program and continues to support Capital University, covering its athletic programs and student health. Physicians also provide medical coverage to the Columbus Destroyers Arena football team. High school coverage continues to be a priority of sports medicine. Faculty and fellows provide care for many local high schools and for state tournaments for the Ohio High School Athletic Association. Significant time is dedicated to the care of student-athletes from Columbus City Schools, Upper Arlington City Schools, Olentangy Local District, Granville Schools, Columbus School for Girls, Big Walnut, Licking Heights and Grove City Christian.

**Sports Medicine Research Activities**

Research is a vital mission of both the Sports Medicine Center and the Department of Family Medicine. Faculty members participate as PIs, Co-PIs, and investigators on studies in the division as well as collaborating with orthopedics, departments within the College of Medicine, and other colleges across the campus as appropriate. Faculty members travel to regional and national meetings to present their research through education, platform and poster sessions, and participation on discussant panels on a wide variety of Sports Medicine topics. The faculty presented over 13 presentations at the international, national, state and local levels. As a group, the Sports Medicine Center authored over 93 peer-reviewed papers.
Sports Medicine Fellowship

The Sports Medicine Center is dedicated to advancing education by offering a one-year ACGME accredited Fellowship in Sports Medicine leading to eligibility to complete the Certificate of Added Qualifications (CAQ) in sports medicine. The program accepts two fellows each year, and is under the direction of Dr. Kendra McCamey; who became the fellowship director for the 2018-19 academic year. Fellows are expected to pass the CAQ exam once fellowship is completed. In addition, fellows are expected to submit an abstract or case for presentation at either an ACSM or AMSSM national meeting during their year at Ohio State. Scholarly writing in the form of a systematic review with faculty involvement is also expected. George Matic, MD presented abstracts at the AMSSM annual meeting during the spring of 2019. Dr. Matic presented a clinical case study poster titled “Acute Hand Injury in a High School Football Player” and a research poster on “Epidemiology of Injuries in Incoming Division I Collegiate Rowers: Comparison of Women’s Varsity Rows and Novice Rows”. Jock Taylor, MD presented a clinical case study poster titled “A Case for the Masses: An Unusual Case of Shoulder Weakness”, and a research case poster on the “Prevalence of Anxiety and Depression Among Incoming NCAA Division I Collegiate Athletes”. Dr. Matic has accepted a position with Beacon Orthopedics & Sports Medicine in Sharonville, Ohio. Dr. Taylor has accepted a position with UHMP Center for Orthopedic Surgery in Broadview Heights, Ohio. Our incoming fellows for the 2019-2020 program year have started. Margaret “Maggie” Doe, DO, completed medical school at the Des Moines University College of Osteopathic Medicine and completed her residency at St. Joseph Hospital and Rose Family Medicine at the University of Colorado. Jess Miller, MD, completed medical school at the University of Minnesota Medical School and completed his residency at Spokane Family Medicine.

Fourth Year Medical Student Rotation
The Sports Medicine Center is committed to medical student education and offers a four week elective to fourth year medical students in sports medicine. Dr. Bryant Walrod leads the rotation.

The primary goals of the rotation are:

• Exposure to a multidisciplinary approach to the practice of sports medicine
• Become familiar with common problems encountered in sports medicine, their presentation, diagnosis and management
• Learn and refine musculoskeletal physical examination skills
• Become familiar with common procedures used in sports medicine (i.e. injection techniques, fracture care, splinting/casting)

Requirements of the rotation include:

• Office hours with assigned physician(s)
• Attendance at weekly sports medicine conferences
• Attendance for training room coverage with their assigned physician
• Attendance at three athletic events over the four week rotation with their assigned physician
• Complete required readings
• Presentation with a written paper on topic of choice at the end of the four week rotation

The rotation is offered for six four week blocks during the academic year. Three students completed the rotation during the 2018-2019 Academic Year.
The 2018-19 year brought significant growth at Ohio State Integrative Medicine. There has been concerted effort by faculty and staff to expand outreach at multiple events throughout The Ohio State University and the Columbus community to increase awareness of clinical services. The national opioid crisis has created a unique position for Ohio State Integrative Medicine. More physicians and clinicians are referring patients for non-pharmacological treatments for pain. This includes a significant increase in referrals from the Veterans Administration to treat this population with Acupuncture, Chiropractic Medicine, Osteopathic Manipulative Medicine and Therapeutic Massage. All of these factors have led to more than a 10% increase of patient visits, totaling 15,194 visits for FY2019.

Clinical Services

Ohio State Integrative Medicine offers a patient-centered, multidisciplinary team approach to health care. Clinical services offered include Acupuncture, Ayurvedic Medicine, Chiropractic Medicine, Integrative Oncology, Integrative Medicine, Mind & Body Medicine, Nutrition/Dietary Services, Osteopathic Manipulative Medicine and Therapeutic Massage. A wide variety of classes including Yoga and Meditation are offered. Clinical care is offered in both outpatient and inpatient environments. All services are offered at the Integrative Medicine clinic on Kenny Road while some individual services are offered at other clinics throughout Ohio State. Select Integrative Medicine services are available throughout the medical center, including the Brain and Spine Hospital, The James Cancer Hospital, Ross Heart Hospital, Jameson Crane Sports Medicine Institute, and select units in University Hospital.

Acupuncture: Visits for Acupuncture have continued to grow. The past year saw an increase of 752 visits for a total of 4,196 Acupuncture visits. The demand for Acupuncture has been partially led by referrals from the Veterans Administration and the medical community for non-pharmacological treatments for pain.

Chiropractic Medicine: Dr. John Grandominico continues to offer Chiropractic Medicine at the Kenny Road clinic. Chiropractic care has remained steady with 2,468 visits. Increased referrals for non-pharmacological treatments contribute to the consistent request for chiropractic care.

Therapeutic Massage: Therapeutic Massage remains a popular service offered by Ohio State Integrative Medicine. Services have expanded this past year across the Ohio State Wexner Medical Center and are now offered at Brain and Spine Hospital, Dodd Hall, Women & Infants, Ross Heart and The James Cancer Hospital. Therapeutic Massage was offered on the Med-Surgery floor in late 2019. Additionally, outpatient massage continues at the Kenny Road clinic as well as at Jameson Crane Sports Medicine Institute. Patient demand has led to the hiring of an additional full time massage therapist.

Nutrition Services: Lori Chong, Registered Dietitian, continues to see patients at the Kenny Road clinic and provides comprehensive dietary and nutrition advice. The past year has also included the addition of community nutrition seminars. These classes specifically focused on educating patients on specific diets including: the Mediterranean diet, low FODMAPs diet and Anti-Inflammatory diet.
Community Engagement

Community engagement continues to be a core value at Ohio State Integrative Medicine. Developing community programming that complements individuals’ health and wellness care and offering classes for both physical and mind-body health are a major focus. Due to a growing interest in Gentle Hatha, Beginner and Level One Yoga, Therapeutic Self-Massage, Tai Chi for Health and Nutrition, these classes have been added to our Community offerings. We also offer Mind-Body classes which include Mindfulness in Motion and Spontaneous Meditation. Training courses for health care professionals include Reiki and Urban Zen Integrative Therapy.

Education

Growing the next generation of clinicians in Integrative medicine is of major importance as an academic medical center and for future expansion of Integrative Medicine to the community. With this in mind, multiple educational activities are offered at Ohio State Integrative Medicine. Diane Habash, PhD, is Director of Education for Ohio State Integrative Medicine. Together with other faculty and staff, Dr. Habash facilitates the following educational activities:

Advanced Competency in Integrative Medicine: Approximately ten fourth year medical students per year participate in this 150-hour multi-tiered training. The primary goal of the Advanced Competency is to expose students to the diverse fields and practitioners at Ohio State Integrative Medicine. The program offers significant didactic and hands-on training and projects but also insists upon experiential learning dedicated to evidence-based therapies and to understanding and planning for their own optimal self-care.

Culinary Medicine: Approximately twenty first and second year medical students participate in the 8-module series of culinary classes which include didactic, case study, and hands-on culinary lessons per module. The training is run through a local nonprofit culinary organization, Local Matters.

Elective Rotations: A month-long elective rotation at the Kenny Road clinic remains popular among Ohio State College of Medicine third and fourth year students and with resident physicians throughout different medical specialties at Ohio State. Interest has also grown among nurse practitioner students at the Ohio State College of Nursing.

Research Activities

Research at Integrative Medicine has continued with the BraveNet PRIMIER Collaborative Study. Total patient recruitment at Ohio State was 130 participants, with a total national recruitment of over 5000 participants. The PRIMIER study is comparing the impact of various integrative therapies on patient reported clinical outcomes. The collected data set will be utilized to generate seed grants to investigate clinical outcomes.

Future of Integrative Medicine

Ohio State Integrative Medicine is poised for growth. Patients seek a comprehensive, holistic and personalized approach to health care uniquely offered through integrative medicine. Perhaps more importantly, the current opioid epidemic plaguing our country and the devastation caused to many of our local communities, has created a social imperative to use non-pharmacological alternatives in the treatment of pain. Ohio State Integrative Medicine offers these evidence-based treatments.

Hospital-based Integrative Medicine services at Ohio State Wexner Medical Center are expanding. With the additional offering of therapeutic massage throughout the hospital system and plans for the reintroduction of Integrative Oncology and Acupuncture services at the James Hospital, there will continue to be an increase in patient demand for integrative services.
During the 2018-2019 year, the faculty in the department continued to be active with regards to obtaining extramural funding. While we have a small number of faculty involved in research, they have been successful in obtaining funding for and completing collaborative research projects.

Randy Wexler, MD continues to serve as Co-Investigator on the grant titled: Urine Antimicrobial Proteins in Older Adults: Aging, Infection and Innate Immunity. The four-year $2,805,735 grant is funded by the National Institute of Aging. The grant goal is to identify the role that urinary antimicrobial peptides play in diagnosing UTI in older adults. This has both clinical as well as policy implications. Clinically, if we are able to identify patients as high risk, we can intervene quickly with respect to potential urinary tract infections and reduce the risk of sepsis. From a policy standpoint, this will help to inform how basic science can be used to provide value-based care and achieve the goal of improving care while reducing cost.

The National Institute on Minority Health and Health Disparities awarded a 5-year grant of $2,267,628 for research in Translational Candidate-Gene Studies of Simvastatin-Induced Myopathy in African Americans in September 2017. Leon McDougle, MD, MPH, is a Co-Investigator on this project. The primary goal of the project is to investigate genetic variation in a prominent metabolizing enzyme in order to improve medicine and dose selection strategies for improved pharmacotherapy outcomes in African American patients.

Dr. Leon McDougle continued to serve as Co-Investigator on the National Institute of Medical Science grant, Core: Ohio State University Discovery Prep for Biomedical Research. The five-year, $873,030 grant aims to accept 5 underrepresented students each year into a one year research intensive post baccalaureate to increase the diversity of PhD and MD/PhD biomedical scientists.

The Department of Family Medicine was awarded a five-year, $2.5 million grant from The Health Resources and Services Administration HRSA on July 1, 2016. The HRSA-funded Primary Care Training and Enhancement grant entitled Expanding, Enhancing, and Enriching the Primary Care Workforce through Clinical Transformation Education was directed by Mary Jo Welker, MD, this year. This is a collaborative grant by the Colleges of Medicine and Nursing with interdisciplinary partners representing the School of Health and Rehabilitation Sciences, the College of Pharmacy, and the College of Social Work. This grant is comprised of 4 objectives and spans all four years of medical school training and extends into residency training. In 2017, the grant was awarded supplemental funding in the amount of $78,998 to address the opioid epidemic. This funding lead to the creation of 14 opioid use disorder modules. In 2018, an additional $90,563 was awarded to enhance the existing modules to be more user friendly plus create two additional modules on MAT for special populations, and video vignettes of motivational interviewing. A virtual patient module is being created to focus on the MAT visit.
Led by Executive Director Ann McAlearney, ScD, the Center for the Advancement of Team Science, Analytics, and Systems Thinking (CATALYST) in Health Services and Implementation Science Research has helped advance research in the Department of Family Medicine and the College of Medicine as a whole. DFM faculty who are members of CATALYST include Timothy Huerta, PhD; Cynthia Sieck, PhD; and Daniel Walker, PhD. CATALYST is focused on using a team science approach to advance research and discovery at Ohio State in the delivery of health services across the continuum of care, and on providing a well-recognized hub for health services and implementation science research efforts within the College. Through CATALYST, our faculty members serve critical roles across Ohio State and in the national and international medical communities. Their collective mentorship of undergraduate and graduate students, service on dissertation committees and grant review panels, and as peer reviewers for established journals helps to broaden the reach and impact of the Department in the area of health services research.

Research team members continue to review grants for numerous agencies including the Agency for Healthcare Research and Quality (AHRQ), the National Science Foundation (NSF), the National Institutes of Health (NIH), the National Cancer Institute (NCI), the Patient-Centered Outcomes Research Institute (PCORI), and BC Cancer. They also provide peer reviews for numerous high-impact journals including the New England Journal of Medicine, Health Affairs, Medical Care Research and Review, the Journal of General Internal Medicine, Health Services Research, Medical Care, Journal of American Board of Family Medicine, International Journal of Academic Medicine, the Journal of Family Practice, and the Annals of Family Medicine.

Researchers in CATALYST are currently leading health services research projects representing over $17 million in grants and contracts, and we have an additional $19 million in grants under review. This year we have had over 39 peer-reviewed articles, books or book chapters published or in press, with another 22 articles under review.

Projects of the Health Services Research Team:

**Optimizing Healing in Ohio Communities (HEAL):** Drs. McAlearney, Huerta, and Walker are Co-Is on this project led by Dr. Jackson. Funded by the National Institutes of Health, this project will implement and evaluate the effectiveness of an integrated set of evidence-based prevention, treatment, and recovery programs for opioid use disorder in 19 highly affected urban and rural counties in the state. HEAL aims to reduce opioid overdose deaths by 40% in the affected communities in three years.

**Super Care Coordination MEDTAPP Project:** Funded by the Ohio Department of Medicaid, Dr. Huerta is the PI of this project designed to assess the effect of the Franklin County Super Care Coordinator (FC-SCC) on the identification of high-risk women, their health care utilization, and their birth outcomes by tracking participants and profiling their health and social risk factors as well as monitoring the services they receive.
Ohio Medicaid Equity Simulation Project, Evaluation Core: Dr. McAlearney is Co-PI and Dr. Walker is a Co-I on this project designed to improve equity in care by examining the effectiveness of simulation-based training. Training simulations focus on cultural awareness and are designed to increase attention to cross-cultural situations as well as improve communications and critical thinking among physicians and residents.

Accelerating Colorectal Cancer Screening through Implementation Science (ACCSSIS) in Appalachia: Dr. McAlearney is Co-I on this project, which aims to increase screening and follow-up for colorectal cancer (CRC) in central Appalachia, a geographically unique, medically underserved region of the United States that is recognized as one of three hotspots for CRC mortality.

Implementation Science Evaluation of the Hospital- and Community-Integrated Medication-Assisted Treatment (I-MAT) Program: As Evaluation Lead and Co-I, Dr. McAlearney is working with a team of physicians and researchers to improve our understanding of the barriers and facilitators to I-MAT program implementation and use.

Development of MyTBI: A Clinical Decision Support Tool for Treating Pediatric Concussions: Dr. Sieck (Site PI) is working with Dr. Yang from Nationwide Children’s Hospital to develop this decision support tool. The project is funded by the Ohio State College of Medicine Dean’s Discovery Grants Program and the Nationwide/COM Cross-Campus-Collaborative Pilot Program.

Engaging the Geriatric Population in Use of Patient Portals. Dr. Sieck is PI of this pilot study, which is utilizing a collaborative design process to develop a patient portal training intervention for older adults.

Total Engagement and Activation Measure (TEAM): Developing a Measure of Capacity for Patients to Engage in their Health Care: Dr. Sieck is PI and Drs. McAlearney, Huerta, and Walker are Co-Is for this project funded by the National Institutes of Health that aims to develop a validated tool for measuring patient engagement. In doing so, the project will give institutions, providers, insurers, and researchers the ability to determine who is engaged in their care and help develop programs and interventions to improve engagement and activation.

Infant Mortality Research Partnership, Phase 2 (IMRP2): Dr. Huerta is Co-I for this project funded by the Ohio Department of Medicaid that is an effort to develop and evaluate statistical models predicting infant mortality and preterm birth, incorporate those models into a point-of-care tool for OB/GYN physicians, and evaluate the usability of the tool.

Ohio Equity Institute (OEI) Evaluation: Dr. Huerta is PI and Drs. McAlearney, Sieck, and Walker are Co-Is for this project funded by the Ohio Department of Medicaid/Government Resource Center designed to examine the extent to which programs such as Centering Pregnancy, Home Visiting, and Community Health Workers that serve high-risk, Medicaid-enrolled pregnant women can impact health care utilization and improve birth outcomes.

Searching for Management Approaches to Reduce HAI Transmission (SMART): Dr. McAlearney is PI and Drs. Huerta, Sieck, and Walker are Co-Is of this project funded by the Agency for Healthcare Research and Quality designed to evaluate the contribution of management factors to successful healthcare-associated infection (HAI) prevention and reduction efforts using a regional and national data-gathering approach.

High Tech-High Touch (HT2): Transforming Patient Engagement Throughout the Continuum of Care by Engaging Patients with Portal Technology at the Bedside: Dr. McAlearney is PI and Drs. Huerta, Sieck, and Walker are Co-Is on this project funded by the Agency for Healthcare Research and Quality designed to assess the impact of hospital-based patient portals on patient experience, long-term engagement, self-efficacy, and post-discharge quality of care.
Patient Safety Learning Laboratories: Institute for the Design of Environments Aligned for Patient Safety (IDEA4PS): Dr. McAlearney is Project Director, Dr. Huerta is Co-Director, and Drs. Sieck and Walker are Co-Is of a Learning Laboratory. The project is funded by the Agency for Healthcare Research and Quality. With three Cores and three embedded research Projects involving 23 investigators from the medical center and beyond, the Institute seeks to improve clinical practice by designing, testing, and exploring information flows that result in adaptation of the healthcare work environment to inform the development of robust practices that lead to improved patient safety.

MyExperience@: A Patient-Centric Error Reporting Mobile Technology Application. Dr. Huerta is PI of this project to develop and test a multimodal approach to patient-centered safety incident reporting. This project leverages patient interests in being informed consumers of healthcare services along with patient use of mobile technology to manage multiple aspects of daily life.

Taxonomy for Patient-Centered Outcomes Research: Drs. Huerta and McAlearney are Co-PIs on a contract with the Patient-Centered Outcomes Research Institute (PCORI) to develop and maintain a taxonomy for comparative effectiveness research involving patient-centered outcomes, working closely with PCORI to assess and organize their funded research portfolio.
The Department of Family Medicine faculty are active in the education of medical students for the College of Medicine. Our medical student education mission is led by Kristen Rundell, MD, Vice Chair for Education, and Director of Integration Allison Macerollo, MD. We also have education leads at our family medicine clinics who help to direct the medical student education at the practice level. The education leads in 2018-2019 were Veronique Bartman, MD, Matthew Farrell, MD, Allison Macerollo, MD, Rachael McGuirk, MD, Anita Ndife, MD, Eunice Oppenheim-Knudsen, MD and Kristen Rundell, MD. While all of our faculty participate in the education of medical students during their clinical rotations, we have a lot of faculty who are also involved in teaching and leading medical student education at the college level. Drs. Michael Alexander, Riza Conroy, Holly Cronau, Matthew Farrell, Allison Macerollo, Janet Mason, Eunice Oppenheim-Knudsen, Rachael McGuirk, Kristen Rundell and Angela Tucker, all hold medical student education appointments in the College of Medicine.

Primary Care Track

The Primary Care Track started in the summer of 2017 and is led by Drs. Allison Macerollo and Kristen Rundell. This new medical school program offers students, who are planning a career in family medicine, an opportunity to complete their medical school studies on an accelerated pathway that covers three years and culminates into the Family Medicine Residency Program. This year the class was expanded to 4 students and the inaugural class will graduate in May 2020. The PCT curriculum is augmented with additional longitudinal clinical time and required objectives called Ambulatory Clinical Experiences. Faculty member preceptors for this program include: Sondos Al Sad, MD, Janice Westphal, MD, Faraz Ahmed, MD. Melissa Davis, MD Sandra Palmer, MD Nichole Kornder, MD, Tammy Lozanski, MD and Balpreet Jammu, MD.

Part 1

Part 1 of the Ohio State Lead Serve Inspire curriculum comprises the first 18 months of medical school and ends with board preparation and the USMLE step 1 exam. The Longitudinal Group and Longitudinal Practice programs span the entire 18 months and are comprised of weekly small group sessions and twice monthly complementary ambulatory experiences. Each student has a portfolio coach for the duration of their medical school experience. These coaches guide them through their medical school experience and advise them on their final portfolio presentations. Department of Family Medicine members participate as Longitudinal Ambulatory Preceptors, Longitudinal Group Leaders, Portfolio Coaches, Learning Community Leaders and Student Tutors.

Part 2 Patients Within Populations - PWP

All third year medical students complete the required four week adult ambulatory rotation as part of the Understanding Patients Within Populations (UPWP) ring in the Lead.Serve.Inspire (LSI) curriculum. The UPWP ring is a 16-week-experience involving the Departments of Family Medicine and Pediatrics.
The first week includes workshops on eye exams, and joint exams and injections, interactive didactics, small group experiences, and a patient experience workshop with patients with disabilities. The students then complete 14 weeks of clinical experiences within family medicine, pediatrics and various electives. The final week consists of assessments including: specialty shelf examinations, an Objective Structured Clinical Examination (OSCE), and a practical examination. Dr. Allison Macerollo served as the Director of Integration and oversees all activities within the ring including clinical rotations, assessments, student performance and knowledge attainment. Dr. Matt Farrell served as the Family Medicine Unit Director and has been working to increase our number of outside clinical preceptors. Dr. Holly Cronau served as an expert educator for LSI Part 2 and assists with the development of content and students who require academic support. Small Group facilitation leaders from our department were: Drs. Cronau, Farrell, McGuirk and Tucker. We continue to offer a wide diversity of practices for the four-week ambulatory experiences including: residency practices in rural, urban, suburban, and inner city sites, involving approximately 60 volunteer preceptors.

Part 3 Advanced Clinical Skills Course
This fourth year elective was introduced 4 years ago, and over the past two years has been incorporated into the clinical track program for fourth year students as an intern prep course. It will be required for all students who are interested in Family Medicine starting spring of 2019. The spring of 2019 course included discussions on Social Determinants of Health, Leadership Training, Psychology updates, Safety and Quality, Financial planning and student loan repayment. Common Family Medicine diagnosis topics in dermatology, cardiology, care of the newborn, allergy and immunology were presented. Workshops in joint injections, gynecology and suturing were offered as well as time spent discussing the importance of mindfulness, journaling and networking. There was a capstone OSCEs simulating a night on call with our Family Medicine residents “acting” as patients calling in with questions. Several residents gave presentations on how to be successful as an intern that were considered the highlights of the month.

Career Exposure, Exploration and Counseling
The Department of Family Medicine prides itself on the active engagement of faculty, staff and students in learning about and exploring family medicine. This section highlights the areas where students and faculty investigate family medicine outside of any defined course.

Summer Externship – In conjunction with the OAFP, the Department of Family Medicine supports up to twenty students in one month experiences throughout the state of Ohio. The program is highly competitive, and several of our current residents and faculty participated in the program as medical students demonstrating the positive effect this can have on our early students.

Family Medicine Interest Group- FMIG. This group is student led, but advised by Dr. Allison Macerollo. This is the largest student organization at OSU and holds over 15 lectures, 4 workshops and several outreach experiences. The group was selected yet again in 2018 to be one of 10 medical schools nationwide who won the Program of Excellence for the robust experiences for all student levels. The experiences listed below are a combination of student led or department initiatives.

Building Blocks series – During each block of Part 1 a faculty member is selected to speak about a clinical topic related to one of the eight blocks, such as acute renal failure during the GI/Renal block. They also spend time discussing how family physicians evaluate and treat diseases seen in that block to demonstrate the breadth of family medicine.
**MEDICAL STUDENT EDUCATION**

**Workshops** – Students are exposed to clinical topics and procedures in Family Medicine through our robust workshop series which includes topics such as phlebotomy, Joint Injections, Ob/GYN, and DO manipulation. Our workshops often fill within 30 minutes of posting to the student body to represent the popularity.

**Outreach** – Ohio State medical students participate in shadowing at the Mount Carmel Van serving the homeless and hosting diabetes screening at the Columbus Free Clinic. Students interact with providers in Family Medicine in each of these experiences.

**Primary Care Week** – Our student family medicine leaders work with students across interests in all aspects of primary care to host five weekday sessions all highlighting different aspects of primary care. At least one session is a panel of primary care providers.

**Career Exploration**

Each department in the College of Medicine is tasked to provide information and experiences about their specialty during set times of Part 1. Dr. Allison Macerollo provides a one hour lecture to all first year students in October of Med 1. Dr. Macerollo also leads eight hour workshops twice per year highlighting the breadth of family medicine through outside speakers and hands on workshops. Each workshop is attended by 20 medical students.

**Career Counseling**

Evening events were provided to third and fourth year students who are considering a career in Family Medicine. The series starts in February of Med 3 to begin discussing scheduling for Med 4, and planning for a successful recruitment season. In March, faculty celebrate Family Medicine matches by attending the Ohio State College of Medicine Match Day celebration. In April, students come together to begin discussion of personal statements and to ensure all upcoming fourth year students are aware of and how to apply and obtain funding for AAFP Resident and Student National Conference. A July meeting is set to ensure that students are clear about what to expect at the AAFP Conference, and direction in writing an excellent personal statement. The last event of the year is September with local programs sending faculty and residents to discuss preparing for interview season. Each student is offered individual counseling throughout the year to assist with determining programs to consider, competitive applications, and effective interviewing techniques.
We enjoyed another exceptional year as the program continues to strive toward excellence in educating family medicine residents. The success of the program comes from the support of the department and the outstanding efforts of the residency faculty, staff, and residents who strive toward enhancing the culture and learning environment of the program.

We have exceptional administrative support! Laura Thompson, MA continues to be a solid source of support for the program, the program director, the faculty and residents, while Whitney Brumley, MS provided outstanding support. We are blessed to have a stable and strong group of faculty who devote themselves to providing the highest degree of education and mentorship. We continue to maintain a stable and superb complement of family medicine faculty. We welcomed four new faculty members: Amanda Pannu, MD as a core faculty member who will direct our inpatient service, Rachel McGuirk, MD wo will attend on our inpatient service, David Klemanski, PsyD who will oversee our behavioral health education, and Ann Oliva, FM CNP, who will assist residents in the management of their patient care in-baskets. Unfortunately we said “goodbye” to long-standing core faculty member, Dr. Bill Buoni, who joined the Upper Arlington Family Practice.

Faculty Development Series

Fred Miser led a quarterly faculty development series for the faculty. Issues addressed included evaluation, feedback and mentoring teaching in the office, precepting best practices and and update on academic family medicine. The final meeting in June 2019 involved and in-depth review and annual program evaluation.

New Curricular Initiatives

Each year we continue to “tweak” our curriculum to ensure our residents receive the best educational opportunities. This year we combined the orthopedics and sports medicine experiences into Musculoskeletal I and II rotations. We are involved in two national initiatives aimed at enhancing our residents’ experience in our offices: Clinic First and the Family Medicine National Innovation in Continuity Clinic Experience. Strategic work of our Program Evaluation Committee included increasing the number of children we care for in our two residency practices, increasing scholarship among the faculty and residents, ensuring a culture of wellness in our program, enhancing our didactic sessions, and improving communications.

Resident Recruitment

Resident recruitment remains a top priority for our program. Laura Thompson and Dr. Fred Miser coordinated the recruitment experience for applicants, providing a personalized approach. Drs. Hiten Patel
and Chelsea Fu were residents actively involved in recruitment. Interest in our program was extremely high and the quality of applicants accepted for interviews was exceptional. We had 829 applicants for our nine positions. Between November 2018 and January 2019, we interviewed 90 applicants. Recruitment season ended on January 26, 2019 with a Second Look party at Dr. Miser’s home with more than 60 individuals in attendance. Both programs were able to match with a group of talented, motivated future family physicians. We warmly welcomed the Class of 2022 in June.

Rardin Family Practice
Logan Beckett, DO – Ohio University
Dev Desai, MD – University of South Carolina
Lilly Hetson, MD – NEOMED, OH
Dana Maxwell, DO – Ohio University
Adam Pfaller, MD – University of Wisconsin
CJ Skok, DO – Chicago College Osteopathic Medicine
Kyle Toth, DO – Ohio University

Outpatient Care East Family Practice
Ayo Adesanya, MD – The Ohio State University
Katy Anderson, DO – Ohio University

Residency Activities
We had several activities through the year to promote wellness within our program. The residents continue to compete in a volleyball league and started in a kickball league. They meet informally for a night of trivia. We held our two annual retreats: 1) Fall (August 29) – a time in which all of the staff, residents and faculty from both of our practice sites got together to focus on our triple mission of education, patient care and scholarship and to participate in fun and competitive games, and 2) Winter (March 7) – an overnight stay in a large cabin in Hocking Hills; in addition to fun and games, Dr. David Klemanski led an exercise on personal goal setting. Our annual picnic at Dr. Miser’s home on June 22nd welcomed the incoming first-year residents.

Annual Department Affiliation Conference
On October 17, 2018, the five central Ohio family medicine residency programs met at the Longaberger Alumni House for lunch, followed by a presentation by our keynote speaker Dr. Catherine Pipas, Professor of Family Medicine at Dartmouth. Her workshop, “Caring for You – Caring for Me: Strategies to Pursue Personal Health and Create a Culture of Wellness” challenged us to incorporate wellness in our own lives.

Annual ABFM In-Training Examination
Our residents continue to do well on this national October examination: 1st-year class mean 459 (national mean 402), 2nd-year class mean 517 (national mean 454), and 3rd-year class mean 585 (national mean 489). 100% of our graduating residents successfully passed the American Board of Family Medicine Certification Examination.
**Academic Residency Track**
We had two residents enrolled in the MBA degree program in the Fisher College of Business: Dr. Chelsea Fu (3rd-year), Dr. Jordan Hilgefort (3rd-year), and Dr. Hiten Patel (2nd year) in the MPH program in the OSU College of Public Health. Additionally, Dr. Selim Sheikh (3rd-year) completed an on-line MBA course from West Texas A&M University, Kenyon Texas.

**Resident Graduation**
On June 15, 2019 we celebrated the accomplishments of our graduating residents at the Country Club of Muirfield Village. Laura Thompson provided heart-felt words of wisdom to our departing residents.

Chelsea Fu, MD – Ohio State Outpatient Care at Worthington, Columbus, OH  
Jordon Hilgefort, MD – Sports Medicine Fellowship, University of Michigan  
Sam Jacobowitz, MD – Veterans Administration Practice, Washington, DC  
Matt Knapke, MD – Private Practice, Columbus, OH  
Megan Krallman, DO – Private Practice, Cincinnati, OH  
Jeff Schord, MD – Ohio State Outpatient Care at Worthington, Columbus, OH  
Selim Sheikh, DO – Ohio State Integrative Medicine, Columbus, OH  
Nicole Umanoff, MD – Private Practice, Dayton, OH

**Scholarly Activities**
Scholarship is vital for the academic environment of our program. To assist in our scholarly endeavors this year, Drs. Cindy Sieck, and Dan Walker worked closely with our residents and faculty on their projects. Our 20th annual Resident Scholarly Activity Symposium was held on May 8, 2019. Graduating residents presented the following:

- Amythest Gauthier MD, Sara Scott MD: *A Brain Under Attack: An Unusual Case of Altered Mental Status*
- Patrick Dyer MD: *Polyarthralgia and Rash – A Case Report of Disseminated Gonorrhea in a Young Male.*
- Mickey Nguyen MD: *Enterococcus Faecalis Bacteremia Complicated by ICD Lead-Related Endocarditis.*
- Shreya Reddy MD: *Kawasaki Disease Refractory to Conventional Treatment.*
- Jordan Hilgefort MD, Bryant Walrod MD: *I've Got a Bone to Pick with You! A Rare Skeletal Abnormality Discovered Following Acute Trauma.*
- Katie Kessler MD, Daniel Krajcik DO: *Unknown Cause of Prolonged Fever and Arthralgias After Hiking in the Ohio River Valley: Easy Test Question, Yet Peculiar Case.*
- Brad Christoph DO: *Viral Myositis and Rhabdomyolysis Due to Influenza*
- Chelsea Fu MD, Megan Krallman DO: *Improving T2DM Screening Rates Among High-Risk Parous Women.*
- Jordan Hilgefort MD, Bryant Walrod MD: *Fractures of the Foot.*
- Selim Sheikh DO, Amanda Pannu MD: *Monitoring Glycemic Control in a Patient with Diabetes Mellitus and Hemoglobinopathy: Utility of Fructosamine*
RESIDENCY EDUCATION

- Matt Knapke MD, Selim Sheikh DO: *Impact of a Referral-Based Exercise Program on Symptoms of Depression and Quality of Life Factors in Patient Participants In a Tertiary Medical Center*
- Sam Jacobowitz MD, Nicole Umanoff MD: *Physician Perspective on an Addiction Consult Team.*
- Jeff Schord, MD: *Family Physician Knowledge on Costs of Common Laboratory and Imaging Studies*
- Michelle Mullins MD, Bill Buoni MD: 23andMe Discovery of Gonadal Dysgenesis (FMX, New Orleans)
- Selim Sheikh DO, Matt Knapke MD, Dan Fosselman DO, Elizabeth Nogan MD, Fred Miser, MD: *Impact of a Referral-Based Exercise Program on Symptoms of Depression and Quality of Life Factors in Patient Participants In a Tertiary Medical Center* (FMX, New Orleans)
- Tyler Adamson DO, David Ringel MD, Michelle Mullins MD, Fred Miser MD: *Compliance With Organization-Based Pitching Guidelines Among Youth Baseball Coaches and Monitoring of “Hidden Throws”* (American Medical Society of Sports Medicine, Houston, TX)
- Michelle Mullins MD: *A Case of Mistaken Identity: Longstanding Paresthesias in a 30 Year Old Male*” (American Medical Society of Sports Medicine, Houston, TX)
- Andy Davis MD, Jamie Robinson MD: *Serving Refugee Patients in an Urban Family Medicine Residency Clinic* (North American Refugee Health Conference, Houston TX)

2018-2019 Residents

During the retreat the residents selected their leadership for the upcoming year. Dr. Jordan Hilgefort was elected as Chief Resident, and Drs. Jeff Schord and Hiten Patel as Assistant Chief Residents.

First-Year Residents

Second-Year Residents

Third-Year Residents
Clinical Informatics Program

The 2018-2019 academic year was another first for our Clinical Informatics fellowship program, as we graduated our first two fellows – Dr. Cory Hussain and Dr. Nasser Aljehani.

Dr. Husseain is now an Assistant Professor and Associate Director of Infection Control at Denver Health in Colorado. He is actively involved in patient safety, antibiotic stewardship and clinical integration of their Data Analytics and Business Intelligence Teams.

Dr. Aljehani is an Associate Chief Medical Information Officer and Family Medicine consultant at King Fahad Medical City in Riyadh, Saudi Arabia.

The fellowship, which is a joint program between The Ohio State University Wexner Medical Center and Nationwide Children’s Hospital is a fully ACGME-accredited, two-year program designed to train the next generation of clinical informaticists and healthcare informatics leaders; there is no single skill set we seek in our trainees since clinical informatics is a large area, and the discipline is integrated into all aspects of the health care system. Our fellows may have completed any ACGME-accredited residency and be board-eligible or board-certified in any primary medical specialty. We accept up to two fellows per year.

Fellows

Jennifer Lee MD (2nd year fellow) - Dr. Jennifer Lee received her medical degree from West Virginia University and went on to complete her Pediatric residency, administrative Chief Residency, and Pediatric Gastroenterology fellowship at the University of Tennessee Health Sciences Center, Le Bonheur Children’s Hospital, and St. Jude Children’s Research Hospital working closely with their Chief Medical Information Officer on projects related to patient safety, quality improvement and end user training.

Samuel Yang MD (1st year fellow) : Dr. Yang studied electrical and computer engineering at the University of California, Los Angeles. He obtained a Master’s Degree in Civil Engineering from the University of California at Berkeley and went on to design and build data infrastructure and advanced algorithms for software systems in the fields of transportation and speech recognition. He made a shift to medicine after completing a post-baccalaureate program at Johns Hopkins University in Baltimore, Maryland, and attended medical school at The Warren Alpert Medical School of Brown University in Providence, Rhode Island, where he was elected by his classmates to the Gold Humanism Honor Society. He recently completed an Internal Medicine and Pediatrics combined residency program at The Ohio State University Wexner Medical Center and Nationwide Children’s Hospital. His interests include clinical application of data visualization, speech recognition, natural language processing, and patient digital engagement.

Faculty

Jeffrey Hoffman, MD
Fellowship Director

Milisa Rizer, MD, MPH
Assistant Director
Ohio State Site Director.

Aarti Chandawarkar, MD
Associate Program Director.
Nationwide Children’s Hospital

Kathryn Nuss, MD
Site Director
Associate Program Director
Nationwide Children’s Hospital

Courtney Hebert, MD
Associate Program Director
Ohio State Wexner Medical Center

Laura Rust, MD, MPH
Associate Program Director,
Nationwide Children’s Hospital
Psychology Fellowship Program

The Department of Family Medicine was again fortunate enough to have clinical psychology practicum students from the Ohio State Clinical Psychology doctoral program place with family medicine for the 2018-2019 year. These students, Briana Brownlow, M.A., Gina Gerardo, M.A., and Jacob Landers, M.A., worked under the direct supervision of Dr. Scott Olenick at Worthington Family Medicine. Practicum students saw Family Medicine patients to address a broad range of behavioral health concerns including depressive and anxiety disorders, bipolar disorders, obsessive-compulsive disorders, and posttraumatic stress disorders utilizing empirically supported treatments. Students also completed integrated assessments for Attention Deficit Hyperactivity Disorder (ADHD) and other psychological issues upon referral from providers from the Departments of Family Medicine and Sports Medicine. Each practicum student received one hour of individual supervision per week and one to two hours of group supervision per week for the entire year. Group supervision was dedicated to enhancing students’ clinical knowledge and skills through didactic trainings and case conceptualizations. In total, students provided 791 hours of individual counseling, conducted 178 initial psychiatric evaluations, and performed 16 ADHD evaluations for family medicine patients.
### Department Faculty

**Assistant Professor:**  
Cynthia Sieck, PhD  
Jennifer Hefner, PhD  
Daniel Walker, PhD  

**Professor:**  
Timothy Huerta, MD  
Ann McAlearney, ScD  
Leon McDougle, MD  
W. Fred Miser, MD  
Randy Wexler, MD  

**Assistant Professor-Clinical:**  
Sondos Al-Sad, MD  
Anton Borja, DO  
Stephanie Cook, DO  
Matthew Farrell, MD  
Laurie Greco, PhD  
Clinton Hartz, MD  
Allison Macerollo, MD  
Eunice Oppenheim-Knudsen, MD  
Ernesto Ortiz-Cruzado, MD  
Rupal Oza, MD  
Mark Rastetter, MD  
Bryant Walrod, MD  
Janice Westphal, MD  
Joel Wood, MD  

**Associate Professor-Clinical:**  
William Buoni, MD  
James Borchers, MD  
Aaron Clark, DO  
David Klemanski, PsyD  
Donald Mack, MD  
Kendra McCamey, MD  
Bethany Panchal, MD  
Kristen Rundell, MD  

**Professor-Clinical:**  
James Borchers, MD  
Maryanna Klatt, PhD  
John McConaghy, MD  
Milisa Rizer, MD  
Mary Jo Welker, MD  

**Clinical Assistant Professor:**  
Faraz Ahmad, MD  
Steven Albrechta, MD  
Michael Alexander, MD  
David Banas, MD  
Maria Barnett, DO  
Veronique Bartman, MD  
Robin Berner, MD  
Gordon Brown, MD  
Whitney Christian, MD  
Riza Conroy, MD  
Melissa Davis, MD  
Matthew Farrell, MD  
Juliet French-Vallabh, MD  
Mariani Giles, MD  
Stephen Graef, PhD  
Scott Graham, PhD  
Nicole Hollingshead, PhD  
Balpreet Jammu, MD  

**David Kageorge, MD**  
Andrew Keaster, MD  
Paul Kirk, MD  
Nicole Kornder, MD  
Rachael McGuirk, MD  
Yu-Ting Lozanski, MD  
Janet Mason, MD  
Shalina Nair, MD  
Anita Ndife, MD  
Mohammedreza Niktash, MD  
Elisabeth Nogan, MD  
Larry Nolan, DO  
Scott Olenick, PhD  
Sandra Palmer, DO  
Benita Petri-Pickstone, MD  
Raymond Pongonis, DO  
Jamie Robinson, MD  
Kirti Shanker, MD  
Bushra Siddiqi, MD  
Harkiran Singh, MD  
Joan Simon, PhD  
Angela Tucker, MD  
Leah Welsh, DO  
Maria Williams- Alexander, PsyD  
Michael Williams, DO  

**Clinical Associate Professor:**  
Anoosheh Behrooz, MD  
Rebecca Grant, MD  
Diane Habash, PhD  

**Clinical Professor:**  
Robert Crane, MD
University Affiliated Faculty

**Associate Professor:**
Christopher Taylor, PhD

**Associate Professor-Clinical:**
Carolyn Brackett, PharmD
Jeffery Hoffman, MD
Bella Mehta, PharmD

**Assistant Professor:**
Tory Harper Hogan, PhD
Jennifer Hefner, PhD
Thomas Huber, PhD

**Clinical Assistant Professor:**
Zainab Al-Obosi, MD
Edith Chang, MD
Gary Erdy, MD
Mimi Ghosh, MD
John Grandominico, DC
David Groen, MD
Robin Hunter, DC

Michelle Khoury, DO
Trevor Kitchin, MD
Kathryn McKee, MD
Matthew Peters, MD
Thomas Pommering, DO
Deepika Rangwani, DO
Steven Richardson, MD
Nicole Sabatina, DO
Eric Stemmer, DO
Lynn Torello, MD
Emily Vrontos, PharmD
David Wang, RAc
Samuel David Weller, MD
Sheila Westendorf, MD
Amanda Williams, DO
Hailing Zhang, RAc

**Clinical Instructor:**
Cheryl Bourne, CNP
Kathleen Carr, PhD

**Faculty Emeritus:**
Glenn Aukerman, MD
Holly Cronau, MD
Patrick Fahey, MD
Lawrence Gabel, PhD
Linda Stone, MD
Active Research and Educational Funding


Innes, K. (PI), Klatt, M., (Site-PI), 09/17-08/18 “Yoga for restless legs syndrome, a common and burdensome sleep disorder”. NIH, The National Center for Complementary and Integrative Health, R15 AT008606-01A1


Klatt, M., Pheiffer, L, Co Is: Quatman, C, Duchemin, AM, Helder, A; (PI’s) 5/1/19-4/30/20 Enhancing Quality of Patient Experience via an Innovative Reduction of Pre-Operative Anxiety. Patient Safety


Peer Reviewed Publications


Conroy, Mark J., MD; Way, David P., MEd; McCamey, Kendra, ME; Boucher, Laura, PhD; Bahner, David P., MD; Walrod, Bryant, MD; Musculoskeletal Ultrasound Immersion into Graduate Medical Education. Sixth World Congress on Ultrasound in Medical Education. Winston-Salem, NC. Sept. 13-16, 2018


Goldstein, J, Hartman, S, Meunier, M, Panchal, B, Pecci, C, Zink, N, and Shields, S. Supporting Family Physician Maternity Care Providers. Fam Med. 2018; 50(9), 662-671


Klatt, M. & Webster, O. Yoga: Theory and Practice (YTP): A Course Illustrating Why Yoga Belongs in the Academy, to The International Journal of Yoga Therapy, accepted 1/19/19. In Press


Rundell, K, Panchal, B. Being Reproductive. Primary Care: Clinics in Office Practice 2018; 45(4), 587-


Terry, T., Sijin W., Sherman, K., Klatt, M., Innes, K., Acceptability and feasibility of a 12-week yoga vs. educational film program for the management of restless legs syndrome (RLS): study protocol for a randomized controlled trial. Submitted to Trials, accepted 1/19/19. In Press
**Tolliver S**, Hefner J, **McDougle, L**. “A Descriptive Assessment of Primary Care Provider Knowledge, Attitudes, and Beliefs Regarding Hair Care Maintenance as a Barrier to Increased Physical Activity in African American Women.” The Journal of the American Board of Family Medicine –7/19.

Von Visger, T., Thrane, S., **Klatt, M.**, DeVito Dabbs, A, Chlan, L, Happ, MB Intervention Fidelity Monitoring of Urban Zen Integrative Therapy (UZIT) for Persons with Pulmonary Hypertension, Complementary Therapies in Medicine, 2019;45:45-49


**Wexler, RK**, Taylor, CT. “family Medicien Can Evolve Through Collaborative Team-Based Care”. The Ohio Family Physician. Spring 2019

Vink S, Fareed N, MacEwan S, **McAlearney AS**. 2019. An Exploration of the Association Between Inpatient Access to Tablets and Patient Satisfaction with Hospital Care. Perspectives in Health Information Management. In press
Blog Posts


Books

Sharma H, Meade JG. Dynamic DNA. New York: Select Books, 2018


Book Chapters


Walrod, B, Lateral Epicondylitis:. Textbook chapter: The 5-Minute Clinical Consult 2019 (The 5-Minute Consult Series) Twenty-Seventh Edition:

Audio Visual Material and Media

Macerollo A, Havercamp S, Prokup S, Crane J, Robinson A, Lash A. “Caring for Patients with Disabilities” The Ohio State University College of Medicine 2019
https://www.youtube.com/watch?v=P31fmSOoNF&Efeature=youtu.be


Nogan, E, City Scene Magazine

Nogan, E, 10TV Spotlight on Prevention
https://www/10tv.com/article/integrative-wellness-key-total-body-health

Nogan, E 10TV Promotion for New Albany Walking Classic
https://youtube/s5AbMb5LHpg


Tolliver, S, NPR, WOSU Radio segment and Article Contributor, July 31st, 2018. “Ohio State Helps Pave A Path For Underrepresented Medical Students” https://radio.wosu.org/post/ohio-state-helps-pave-path-underrepresented-medical-students#stream/0; accompanied by live presentation to Board of Trustees
International and National Presentations

Bermingham, R., and Mack, D. AMDA Core Curriculum Online Webinar 2, "AMDA Online, Oct. 25, 2018


Hilgfort, J, Walrod, B, I've Got a Bone to Pick with You! A Rare Skeletal Abnormality Discovered Following Acute Trauma. Poster Presentation AMSSM Annual Meeting, Houston, TX, April 2019


Kuttner, C and Mack, D, AMDA Core Curriculum Online Webinar 2,”, AMDA Online, April 4, 2019.

Lawrence, T. and Mack, D, AMDA Core Curriculum Online Webinar 2,” AMDA Online, March 27, 2019.


Macerollo A, Rundell K, Bruce E, Bridging in the Gap Between UME and GME With a "Bootcamp" Course for Fourth-Year Students, 2019 Jacksonville, FL, The Society for Teachers of Family Medicine Annual Conference


Melsop,S., Rayo, M., Klatt, M. January11-13, 2019," Working Across Disciplinary Boundaries toward Patient Safety: Designers, Human-Centered Engineers and Academic Researches Explore Design Thinking Methodologies to Collaborate Outside the Box”, 17th Annual Conference Hawaii International Conference on Arts and Humanities, Honolulu, Hawaii

Miser WF, Brown S, Pettit J, Hartl K: Enhancing the Family Medicine Residents Experience in the Office Clinic First and FM-NICCE. Oral presentation (seminar) given to the American Academy of Family Physicians Program Director’s Workshop, Kansas City, MO, April 5, 2019.

Miser WF: The Approach to the Resident in Difficulty – Prevention, Early Recognition, and Early Intervention. Oral presentation (seminar) given to the American Academy of Family Physicians Program Director’s Workshop, Kansas City, MO, April 5, 2019.

Miser WF, Haynes J, Swoyer J: Congratulations: You Have Just Become a New Program Director! Now What? Oral presentation (seminar) given to the American Academy of Family Physicians Program Director’s Workshop, Kansas City, MO, April 5, 2019

Moffatt-Bruce, SD, McAlearney, AS. 2018. Presentation of the P30 Learning Laboratory Grant Results. Presented at the first LEAN Conference in Cordoba, Argentina. Oct 2018

Panchal, B. Developing and Implementing a Point of Care Ultrasound Curriculum for a Family Medicine Residency Program. Emerging Leaders Poster. STFM Annual Spring Conference, April 2019.


Rundell, K; Cronau, H.; Macerollo, A.; Bruce, E. Bridging in the Gap Between UME and GME With a "Bootcamp" Course for Fourth-Year Students Society of Teachers in Family Medicine Conference on Medical School Education. Jacksonville, Florida. February 2, 2019.


Rundell, K Curren C. Health Coaching and Interprofessional Education


Taylor, J., Walrod, B, A Case for the Masses: An Unusual Case of Shoulder Weakness: Poster Presentation AMSSM Annual Meeting, Houston, TX, April 2019


Sharma H. Application of Ayurveda in the modern healthcare system. Third International Conference on Integrative Medicine: Role of Ayurveda and Yoga in Cancer and Palliative Care. Harvard Medical School, Boston, MA, June 22-24, 2018

Sharma H. Ayurveda – Science of Epigenetics. International Ayurveda Conference, Canadian Ayurveda Members Alliance, Toronto, Canada, August 18-19, 2018


Sharma H. Ayurveda is epigenetics. Webinar, Boston Center of Excellence and Health is Wealth Foundation, Boston, MA, June 15, 2019.
Sheikh S, Knapke, M, Fosselman D, Nogan E, Sommer A, Briggs M, Miser F, Impact of a referral-based exercise program on symptoms of depression and quality of life factors in patient participants in a tertiary medical center. FMX AAFP Meeting (October 2018), New Orleans, LA


Regional and State Presentations

Banas D, Middleton J. "I don't understand you." Using DiSC to manage relational conflict Ohio Health Doctors Hospital Family Medicine Residency Office Retreat, 9/19/18


Klatt, M. 2018. “Radiation Therapy Students: Mindful Cuing”, 8/24/18 Kent State University, Salem, OH.


Mack, D, Geriatric Case Presentations on The 3 D’s of Geriatrics, Multimorbidity, Frailty, and Choosing Wisely,” OAFP Family Medicine Workshop, Columbus, Ohio, January 26, 2019.
McCray J, Stotz S, Banas D, Cramer C. "Wraparound Care: Panel Discussion". Regional Conference for Integrating Science into Eating Disorder Care, The Central Ohio Food Bank, 5/3/19

Miser WF. Preparing Your Patient for Worldwide Travel. Oral presentation given with Allen J, Davis J, The Ohio State University MedNet 21 (Medication Webcast for the 21st Century), Columbus, Ohio, May 3, 2019


Sharma H. God in you, dynamic DNA and Ayurveda (Science of Life). Phoenix Books, Columbus, OH, November 16, 2018

Sharma H. How the Supreme Reality works through the human physiology. Soul Connections Group, First Unitarian Universalist Society of Marietta, Marietta, OH, June 12, 2019

Walrod, B. Non-operative treatments/injections for common hip disorders. The Ohio State University 8th Annual Hip Symposium. Columbus, Ohio November 30, 2018.


NATIONAL AWARDS

Walker, DM, Menser T, Yen P, McAlearney AS. Included in the 2018 AMIA Annual Symposium Year in Review of most important papers published during the year. Paper entitled: “Optimizing the User Experience: Identifying Opportunities to Improve Use of an Inpatient Portal.”