University of Maryland
School of Medicine

DEPARTMENT OF EPIDEMIOLOGY AND PUBLIC HEALTH

Fiscal Year 2018 Annual Report
(July 1, 2017-June 30, 2018)

Chair:
Jay Magaziner, PhD, MS Hyg
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The executive summary below outlines the department’s activities in fiscal year 2018 (FY2018).

**Research.** EPH faculty remained focused on reaching the SOM mission areas related to research. EPH faculty published a total of 238 peer-reviewed papers. One hundred twenty grant applications, requesting $68.6m in TCS (all years), were submitted, representing a 3% increase compared to FY2017.

EPH is the primary academic home to faculty in five cost centers. Active extramural awards to all faculty with primary appointments in EPH totaled more than $34m and averaged $654,046 per full time EPH faculty member. Overall, awards were up by 8% from FY2017 (details provided on following pages). Five EPH faculty have multiple R01s (or R01 equivalents) including Adebamowo (U01, U54, U10, P30), Harris (2 R01’s, R18, U54, K24), Magaziner (P30, two R01s, R37, T32) Terrin (U01, R01, U24) and White (U19, R24, 2 OT’s). Ninety-two percent of EPH faculty receive funding from federal sources and the department will strive to maintain this high level of funding in FY2019.

The Program in Health Disparities and Population Health continued to grow in FY2018; our membership now includes 64 faculty members and collaborations developed through the program have led to multiple interdisciplinary grant applications.

**Education.** Guided by the SOM strategic plan, EPH continued to grow the academic programs associated with the department. During FY2018, 39 students graduated and there was a significant leadership transition for the academic programs with Diane Marie St. George, PhD, becoming the Vice Chair for Academic Programs for EPH. Additionally, the department continued to lead the Epidemiology Section in the medical school curriculum and students continued to score well on the epidemiology sections of the USMLE. The MPH Program revamped its core curriculum to come into compliance with the new Council on Education for Public Health (CEPH) accreditation criteria.

**Clinical Service.** Six EPH faculty provided clinical care. Faculty members provided medical evaluations and consultations for children with possible child abuse and neglect, as well as preceptorship of medicine and pediatric residents at Sinai Hospital. In addition, five faculty lead the UMMC and Baltimore VAMC Infection Control Programs, and attend at the UMMC and/or the medicine inpatient unit at the VA.

**Community Outreach.** During FY2018, the Community Outreach Program implemented several research-related and education-related community based initiatives. These initiatives provided faculty with the opportunity to grow research collaborations, engage students in real-world public health activities, and jumpstart potential new grant collaborations. The Community Outreach Program faculty and staff continue to implement the department’s engagement plan and have offered multiple outreach opportunities, including community service and public health education activities during National Public Health Week.

**Administration.** During FY2018, EPH was able to fill the remaining vacant administrative position which enabled the department to become fully self-sufficient. EPH faculty and staff effort reporting is balanced, employee timesheets are submitted and approved in a timely manner, and the department has diminished the number of outlier payroll actions. The EPH social media presence continued through Facebook and Twitter. The department also continued to publish *EPH Weekly*, a digest of accomplishments and events.

**Finance:** All state and revolving accounts were balanced at year-end (unless otherwise noted below) and the year-end balance in the DRIF account was $413,835.

**Development:** In FY2018, we received $161,000 in new funds and gifts. Fifteen new prospects were identified. The annual Renee Royak-Schaler Lecture in Health Disparities was held on April 11, 2018 with Margarita Alegria, PhD, as the speaker.
FISCAL YEAR 2018 ACCOMPLISHMENTS

Research.
The department is the primary home to 52 faculty members in five different cost centers. EPH faculty published a total of 238 peer-reviewed publications and articles, presented 12 presentations, and have 101 active grants. Department faculty submitted 120 grant applications totaling $68.6m in total costs (all years). This represents a 3% increase in the number of applications submitted by EPH faculty in FY2017. In addition, EPH faculty had key roles in the preparation and submission of multiple SOM grant applications with PIs outside the department.

Active extramural awards to all faculty with primary appointments in the department (N=52) totaled $34,010,385. (broken down by cost center: $15,656,049 to those in the primary EPH cost center (N=39); $7,903,793 to those in centers/institutes (N=12); and $10,450,543 went to faculty in the Cooperative Studies Coordinating Center (CSPCC) in Perry Point (N=1)). Overall, awards were up by 8% from FY2017. Dollars per faculty member remained high with an overall average of $654,046 per faculty. (By cost center: $401,437/faculty in EPH cost center; $658,649/faculty in centers/institutes; $10,450,543 CSPCC.) Five EPH faculty have multiple R01s (or R01 equivalents) including Adebamowo (U01, U54, U10, P30), (Harris (2 R01’s, R18, U54, K24), Magaziner (P30, two R01s, R37, T32) Terrin (U01, R01, U24) and White (U19, R24, 2 OT’s). Total FY2018 federal funding increased nearly 20% over FY2017. Finally, 92% of EPH faculty receive funding from federal sources. The department will strive to maintain this level of federally funded research, while at the same time maintaining excellence in education, clinical care and community service.

Program in Health Disparities and Population Health: The Program combines research, education, and service to advance health equity by addressing the critical health issues often influenced by the social determinants of health. Under the continued leadership of Wendy Lane, MD, MPH, David Marcozzi, MD, MHS-CL, FACEP, and J. Kathleen Tracy, PhD, the program has secured funding for research grants. The program also developed an online research project inventory of program affiliate grants to foster collaboration and grant submissions, concluded three seed grants and expanded the membership to 64 faculty affiliates.

Research Honors/Awards

• Søren M. Bentzen, PhD, DMSc, a professor in the Department of Epidemiology and Public Health (EPH) at the University of Maryland School of Medicine (UM SOM), has been awarded a gold medal from the American Society for Radiation Oncology (ASTRO). This is the highest honor bestowed upon ASTRO members. It recognizes a distinguished scientist who has made major contributions to the field of radiation oncology.

• Judy LaKind, PhD, has become a member of the Health and Environmental Sciences Institute (HESI) RISK21 Science Advisory Board.

• Judy Lakind, PhD, became a member of the Health Effects Institute Energy Research Committee. The committee selects studies for funding, and provides oversight and feedback while studies are ongoing.

• Clement Adebamowo, ScD, was named as a 2018 Fellow of the American Society of Clinical Oncology.

Education.
Overall, the EPH educational programs continued to thrive in FY2018 and the graduates are strong representatives of the School of Medicine’s public health and epidemiology training. Wendy Lane, MD, MPH, was recently awarded funding from the AAMC/Donaghue award as the Principal Investigator for B’more for Healthy Babies Upton/Druid Heights, a community-based and community-engaged intervention to improve birth outcomes.

Below are brief updates about each academic program.

• Clinical Research Education and Training Program - MS in Epidemiology and Preventive Medicine, Clinical Research Track and Certificate in Clinical Research: Under the continued leadership of Kristen Stafford, MPH, PhD, the program continues to receive institutional support from the Dean’s office. This year we accepted six MS students, including one MD/MS student and one recent UM SOM graduate remaining for a fifth year to do the MS, in the Clinical Research track and three students in the Certificate program. Revenue from tuition remission increased by 53% over last year.
PhD and MS Programs in Epidemiology and Human Genetics: Ann Gruber-Baldini, PhD, continued to lead Epidemiology and Human Genetics Program and Jennifer Albrecht assumed leadership of the Epidemiology track within the program in August 2017. FY2018 saw a 23% decrease in the number of applications received when compared with FY2017 (applications were down overall for GPILS programs), although we maintained high quality in the applicant pool. Forty-five PhD students will be enrolled this fall, including six new students. There will be five new Human Genetics students in the MS Program (an increase from two students in Fall 2017). Eight PhD students and three MS students graduated in spring 2018.

Ph.D. in Gerontology: The dual-campus program (UMB/UMBC) continued to thrive in its 17th year under the co-leadership of SOM faculty, Denise Onwig, PhD and UMB faculty, John Schumacher, PhD. There are 48 program faculty affiliates across the UMB and UMBC campuses. As of May 2018, a total of 40-students have graduated, with 2-new graduates this fiscal year. One of the graduates is a Postdoctoral Research Fellow at the Wilmer Eye Institute of Johns Hopkins in the Swenor Research Group. The second is a Research Public Health Analyst with RTI International. Two full-time students enrolled for the fall 2017 bringing the total enrollment of the program to 20 students. The students were primarily funded on faculty grants or state GRAs. There were 9 student publications, 6 oral presentations, 11 poster presentations, and 6 student awards. The program created and distributed their fourth annual newsletter.

Medical School Teaching: Kerri Thom, MD, MS, continued to lead as the Director of the Epidemiology Section in the medical school curriculum. In that capacity, Dr. Thom coordinated the epidemiology and biostatistics curriculum, arranged and scheduled lectures/small group sessions, and is active on the Comprehensive Curriculum Committee and the Year 1/Year 2 subcommittee. Dr. Thom also served as Course Director for two clinical year electives, PREV 540 and PREV 546. Six EPH faculty members gave 15 lectures in epidemiology and biostatistics: and 17 primary/secondary faculty members served as small group facilitators for epidemiology small group sessions. Dr. Thom is a member of the Executive and Steering Committees for Curriculum Review and Enhancement with a plan to implement a new medical student curriculum in 2020.

Master of Public Health (MPH) Program: The MPH Program, directed by Diane Marie St. George, PhD, graduated 21 students and enrolled 24 new students ending the spring 2018 term with a total of 46 students. Rhiya Dave, MPH was named as one of the 2017-2018 President’s Fellows. The Beta Tau Chapter of Delta Omega Honorary Society inducted two new student members (Clare Donofrio, MSW, MPH and Breana McKinnon, MPH), three alumni members (Timileyin Adediran, MPH, Whitney Burton, MSW, MPH and Darlene Robinson, MD, MPH) and one faculty member (Jessica Brown, PhD). The Program has revamped its core curriculum to come into compliance with the new Council on Education for Public Health (CEPH) accreditation criteria.

Preventive Medicine Residency: One resident had her work from her Research Practicum class accepted for publication in the American Journal of Public Health. Both residents who graduated in 2017 took the American Board of Preventive Medicine examination in the fall and passed. Dr. Lane completed her first full year as Program Director and completed a Program Self-Study for the ACGME.

Academic Honors/Awards:
- Appendix C provides a detailed reporting of the faculty, staff and student academic honors/awards for FY2018.

Clinical Service.
EPH has a limited number of faculty providing clinical care services. During FY2018, six outstanding faculty members provided clinical care services. Wendy Lane, MD, MPH, continued to provide medical evaluations and consultations for children with possible child abuse and neglect. She ran several components of an annual full-day retreat to train pediatric interns to identify and treat children suspected of abuse and neglect. Dr. Lane served as a Core Faculty member of the CHAMP program (Child Abuse Medical Professionals), a statewide program to train and support health professionals throughout the state who provide care to children with
suspected abuse and neglect. Also, she provided pediatric care at the Baltimore Child Abuse Center, an affiliate of Sinai Hospital. Anthony Harris, MD, MPH, continued as an Associate Hospital Epidemiologist. Surbhi Leekha, MBBS, MPH, continued to serve as Medical Director of the UMMC Department of Infection Prevention and Hospital Epidemiology. Daniel Morgan, MD, MS, continued to serve as the chief hospital epidemiologist for the Baltimore VA Medical Center and Mary-Claire Roghmann, MD, was an associate hospital epidemiologist for the VA Maryland Healthcare System. Additionally, Kerri Thom, MD, MS, served as Patient Safety and Quality Improvement Advisor to the University of Maryland Medical System (UMMS) and served as an Associate Hospital Epidemiologist. Drs. Leekha and Thom had clinical attending responsibilities in infectious disease or internal medicine at the UMMC. Surbhi Leekha, MBBS, MPH, served as Hospital Epidemiology at the University of Maryland Medical Center. Drs. Thom and Harris served as Associate Hospital Epidemiologists.

Community Outreach.
During FY2018, the Community Outreach Program implemented several research-related and educational-related community-based initiatives. These initiatives provided faculty with the opportunity to grow research collaborations, engage students in real-world public health activities, and jumpstart potential new grant collaborations. Multiple outreach opportunities were offered:
- EPH students, faculty and staff participated in community outreach activities including serving breakfast at Ronald McDonald House, participating in health/wellness fairs, and teaching healthy eating and physical activity classes (Healthiest Maryland Schools Childhood Obesity Prevention Program).
- Hosted its annual National Public Health Week (NPHW) salute with community/education activities.

Administration.
EPH administrative core is fully functioning and running at maximum capacity. The administrative core may need to add an additional FTE if large projects are funded. We are delighted to have filled the Post Award Sr. Accountant/Operations Manager (functional title: Division Manager) for the Division of Gerontology. This unit has been operating with “borrowed” administrative staff for several years. Joella Trenchard, the incumbent, transferred from the School of Pharmacy where she had approximately 3 years of experience and, prior to that, 2 years in SOM: Pediatrics.

The department’s PCA account is balanced and there was one effort report outstanding; there are no outstanding effort reports for prior fiscal years. Timesheets for nearly 125 employees have been submitted and approved on a timely basis and this is reflected in our #2 ranking in Dean Reece’s delinquent timesheet email distributed in Fall 2017. Laura Seipp is closely directing the payroll coordinator’s activities and we are pleased to report a decrease in the number of outlier payroll actions (eg., overpay, leave payout corrections, late pays, etc).

Finance: All state and revolving accounts balanced at year-end. Year-end balance in the DRIF account was $413,835. Year-end balance in the IT/LAN account was $424,699. With the exception of two modest cost centers in one account (IT/LAN) totaling ~$50,000, funds will be used for cost share (DRIF, approximately $289,000) and information technology (IT/LAN, approximately $120,000) contractual costs to ready several courses for online delivery, our annual contract to the Department of Medicine for IT/desktop support, and to upgrade nearly 20 desktop computers that are more than seven years old and out of service.

Development: In FY2018, 8 solicitations totaling $348,500. were made to individuals, foundations, and corporations resulting in $161,000 in new funds for research and scholarships, including: 1) $132,000 for Year 2 of the NH TeleED Future Care project, which exceeds the Year 1 gift of $115,000 from the same donor; 2) $15,000 in disparities-related gifts; 3) Two gifts to the PMR Program totaling $13,000. Thirty new leads were pursued, including NIMHD, PCORI, Kaiser, Commonwealth Fund, CareFirst, CHRC, and France-Merrick. Hosted Margarita Alegria, PhD., Chief of the Disparities Research Unit at Massachusetts General Hospital, and Professor in the Departments of Medicine and Psychiatry at Harvard University Medical School at the 2018 Renee Royak-Schalter Lecture in Health Disparities.
Appendix B – Publications

EPH Fiscal Year 2018 Publications


11. Pennap D, Zito JM, Santosh PJ, Tom SE, Onukwugha E, Magder LS. Patterns of Early Mental Health Diagnosis and Medication Treatment in a Medicaid-Insured Birth Cohort. JAMA Pediatr. 2018 Apr 30. [Epub ahead of print]


Appendix B – Publications


46. Margo JA, Whiting MF, Brown CH, Hoover CK, Munir WM. The Effect of Chronic Pulmonary
Appendix B – Publications


54. Roghmann MC, Lydecker AD, Hittle L, DeBoy RT, Nowak RG, Johnson JK, Mongodin EF. Comparison of the Microbiota of Older Adults Living in Nursing Homes and the Community. mSphere. 2017 Sep 13;2(5).


Appendix B – Publications


Appendix B – Publications


105. **Quinn CC**, Swasey KK, Crabbe JCF, Shardell MD, **Terrin ML**, **Barr EA**, **Gruber-Baldini AL**. The Impact of a Mobile Diabetes Health Intervention on Diabetes Distress and Depression Among Adults: Secondary Analysis of a Cluster Randomized Controlled Trial. JMIR Mhealth Uhealth. 2017 Dec 7;5(12):e183..


Appendix B – Publications


152. Rathbun AM, Shardell MD, Stuart EA, Gruber-Baldini AL, Orwig D, Ostir GV, Hicks GE,
Appendix B – Publications


153. Rubin MA, Samore MH, **Harris AD.** The Importance of Contact Precautions for Endemic Methicillin-Resistant Staphylococcus aureus and Vancomycin-Resistant Enterococci. JAMA. 2018 Feb 12. [Epub ahead of print]


156. **Re snick B,** Hebel JR, **Gruber-Baldini AL,** Hicks GE, **Hochberg MC, Orwig D,** Eastlack M, **Magaziner J.** The impact of body composition, pain and resilience on physical activity, physical function and physical performance at 2 months post hip fracture. Arch Gerontol Geriatr. 2018 Feb 15;76:34-40.


Appendix B – Publications


Appendix B – Publications


Appendix B – Publications


228. Martinez-Gomez D, Bandinelli S, Del-Panta V, Patel KV, Guralnik JM, Ferrucci L. Three-Year
Appendix B – Publications


Appendix B – Publications

2017 Aug 19 [Epub ahead of print].


EPH Fiscal Year 2018 Academic Honors and Awards for Faculty, Staff and Students

Faculty and Staff
- Jennifer Albrecht, PhD, Assistant Professor, was awarded the 2018 Epidemiology & Human Genetics Program and Gerontology Programs Faculty Mentoring Award
- Sania Amr, MD was selected to be the Mace Bearer at the UMSOM CO2018 Graduation
- Ann Gruber-Baldini, PhD, Professor, was awarded the 2018 Epidemiology & Human Genetics and Gerontology Programs Faculty Teaching Award
- Jessica Brown, PhD, was bestowed the 2018 Master of Public Health Teaching and Mentoring Faculty Award
- Kristen Stafford, PhD, Assistant Professor, was awarded the 2018 Medical School Teaching Award from the Department of Epidemiology and Public Health
- Kerri Thom, MD, MS, was selected by the UMSOM CO2018 as Graduation Hooder
- Kerri Thom, MD, MS, was inducted as a 2018 Fellow of the Academy of Education Excellence at UMSOM

Students
- Olusegun Adeyemi, doctoral student in Epidemiology, received the 2018 Renee Royak-Schaler Memorial Endowment Award
- The Abraham Lilienfeld Award for Excellence in Epidemiology and Biostatistics was awarded to Andrew Fischer, medical student (Class of 2018)
- Sarah D. Holmes, doctoral student in Gerontology, was an AGHE 2018 James McKenney Student Travel Award recipient
- Maggie Matern, doctoral student in Human Genetics, received the 2018 Patricia Langenberg Scholarship Endowment in Women's Health & Epidemiology
- Maggie Matern, doctoral student in Human Genetics, received an F31 grant funded by the NIH
- Basant Motawi, doctoral student in Epidemiology, has been awarded a Senesh Fellowship in the field of peace (http://iprafoundation.org/senesh-fellowship/)
- Jamila Torain, doctoral student in Gerontology, Meyerhoff Scholar, was chosen for the Victor E. and Dorothy M. McIntosh Award
- Doris Yimgang, doctoral student in Epidemiology, received an F31 grant funded by the NIH
- The Robley Dunglinson Award for Excellence in Preventive Medicine was presented to Alice Zhang, medical student (Class of 2018)
- Albert Zhou, MD/PhD student, was accepted into the UMB/JHU Predoctoral Clinical Research Training Program