

MARCH 4, 2022

Greetings, colleagues! We hope that 2022 is off to a wonderful start for you all. We have been quite busy at the CPV and look forward to sharing our work and updates with you below.



## LATEST NEWS

### **Grant Funding Opportunity: Advancing Family Medicine through Artificial Intelligence and Machine Learning**

The American Board of Family Medicine (ABFM) Foundation has just released a [Request for Proposal \(RFP\)](#) for grants to support and enhance the capacity for Artificial Intelligence and Machine Learning (AI/ML) methods in Family Medicine to study primary care research questions using real-world, primary care data.

**Purpose:** This grant program is part of the larger ABFM **Foundation Enterprise Artificial Intelligence and Building Long-term Capacity (EnAIBL-Capacity)** for Family Medicine Program. The intentions of this RFP are to:

1. Ask and answer questions of high relevance to practicing primary care clinicians of real-world primary care data using AI/ML methods;
2. Build capacity for AI/ML methodology in family medicine departments/divisions and build access to institutional data and informatics resources;
3. Build collaborations between departments/divisions for AI/ML capacity;
4. Seed subsequent research proposals; and
5. Seed development of AI/ML clinical decision support tools derived and tested on real-world primary care data.

**Project Term and Available Funding:** Individual projects requesting up to \$500,000 for a study period of 4 years (\$125,000/year) will be considered. The ABFM Foundation will award up to 4 projects.

**Eligibility:** This program is open to all post-doc (MD, PhD, or equivalent) researchers embedded in or connected to Family Medicine Departments/Divisions at academic medical centers or other healthcare organizations. A fuller description of eligible applicant institutions is detailed within the RFP announcement.

**Application Due Date:** Key dates/deadlines are available in the RFP link and at this website: [Artificial Intelligence/Machine Learning for Family Medicine \\$500,000 Grant Opportunity | The Center for Professionalism and Value in Health Care](#)

**Informational Session:** The ABFM Foundation leadership will host an information session on March 10, 2022, from 1:00-2:00 PM Eastern. This session will provide potential applicants the opportunity to ask questions in advance of submitting the required LOI and application. **To attend this informational session, please register [HERE](#) for the webinar.**

Should you have questions regarding this RFP, please contact [danaprice@theabfm.org](mailto:danaprice@theabfm.org).



## VISITING SCHOLARS

With COVID-19 cases on a rapid decline, the CPV is excited to be able to host in-person Visiting Scholars again! We have had the pleasure of hosting three wonderful Scholars so far this year, but always have room for more visitors in 2022. Please read more about the Scholars below and the amazing projects they are currently working on.

### Sydney Doe

Sydney Doe is a proud Chicago native and a current PGY-2 at Northwestern's Family Medicine program based out of Erie Family Health, a teaching health center. As a medical student, she was elected to serve as a Student Representative to the American Academy of Family Physicians (AAFP) Congress of Delegates. She also sits on the Illinois Physicians for a National Health Program Steering Committee. In her free time, she likes playing board games with her in-laws and visiting museums. Per Sydney, so far, the DC museums have been knocking it out of the park!

#### *Project for month at CPV:*

At the Center, Sydney is working on a project to promote tying residency program funding to outcomes like resident burnout and the percentage of graduates that pursue primary care. She is excited by the possibilities for physician training were it to be held accountable to the needs of both patients and trainees.



### Derek Baughman

Dr. Baughman is chief resident at WellSpan Good Samaritan Hospital Family Medicine program with career aspirations of leadership in medicine, health care administration, and the federal government. He serves in multiple state and national leadership positions at the AAFP and the American Medical Association (AMA), and he currently serves on the Annals of Family Medicine's editorial advisory board. His keenness for value-based care has focused his research interest in clinical quality measures and health economics. After residency, Dr. Baughman will serve in the US Air Force and he is considering MBA programs and health policy fellowships to tackle the financial problems in health economics. Eventually, he would like to lead at the federal level, designing insurance payer-models. His personal interests include: spending time with his wife and two young daughters, musicianship, reading, athletics, sci-fi and superhero movies, pizza, and strong coffee.



#### *Project for month at CPV:*

Dr. Baughman is in the process of completing a scoping review of primary care quality measurement focused on comprehensiveness. This annotated bibliography will contribute to development of a potential primary care model at The Center for Medicare and Medicaid Innovation (CMMI). With his credentialing at CMMI, he will have the opportunity to 1) contribute to quality measurement approaches; 2) provide clinical context for development of quality measurement strategies; and, 3) provide insight on value-based payment model history in primary care (i.e. CPC, CPC+, PCF) and future-looking reports (i.e. NASEM primary care report). Dr. Baughman will also participate with ABFM's CPV staff on external stakeholder discussions (including panelist participation in the Continuity of Care Technical Expert Panel) and continue working with CMMI after his scholar month in ongoing value-based payment model development.

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## Allen Archer

Allen Archer is currently an undergraduate senior majoring in Health Administration at East Tennessee State University. Allen has been accepted and, upon completion of his bachelor's degree in the Summer of 2022, will attend medical school at the Quillen College of Medicine as an MD/MPH student.

### *Project for month at CPV:*

During his time as a visiting scholar with the CPV, Allen will be investigating the impact of combined family-preventive medicine residency training programs on primary care/public health integration efforts. Allen has also been selected for the U.S. Air Force's Health Professions Scholarship Program and intends to pursue training in a primary care specialty.



## POLICY EFFORTS

### **RWJF Awards Grant to ABFM Foundation for Collaboration with Stanford and US Census Bureau to Support Research on Using Social Determinants of Health Indices to Adjust Payments to Physicians**

It is with great pleasure that we announce the Robert Wood Johnson Foundation has awarded a new two-year grant to support "Testing the predicting power of social determinants of health indices on outcomes to improve Medicare payment," a research collaboration between the ABFM Foundation, the Stanford Center for Population Health Sciences, and the U.S. Census Bureau. The period of the grant began on December 1, 2021 and will carry through November 30, 2023. Please read more about this great news [here](#).



## COVID-19 RESEARCH

### **ABFM and Stanford Support CDC to Monitor COVID-19 Incidence, Prevalence and Long-term Symptoms**

The Centers for Disease Control and Prevention (CDC) has contracted with ABFM and the Stanford Center for Population Health Sciences to help monitor social inequalities in COVID-19 and assess the prevalence and severity of long-term symptoms of COVID-19. While numerous studies are starting to report the long-term complications from COVID-19 illness, few have included diverse populations from primary care practices or have the ability to address health disparities. This contract utilizes electronic health record data from the American Family Cohort database that includes millions of patients across the U.S. It will provide insight into the impact of the COVID-19 pandemic that can be applied to clinical practice to improve outcomes for patients and their families. Many rural areas have limited access to specialists, so more responsibility falls on primary care to identify and manage COVID-19 and long-term COVID-19. [Please read more about this amazing work here.](#)



## PUBLICATIONS

**Phillips RLJ**, George BC, Holmboe ES, **Bazemore AW**, Westfall JM, Bitton A.

[\*Measuring Graduate Medical Education Outcomes to Honor the Social Contract\*](#)

The graduate medical education system is heavily subsidized by the public in return for producing physicians who meet society's needs. There is little public accountability for nearly \$19 billion in funding is used. There are good examples of institutions, states, and training consortia that assess GME outcomes. We can have a graduate medical education system that better meets the needs of society and better honors what is now only an implicit social contract.

Dai M, Chung Y, **Peterson LE**, Petterson S, **Phillips R**.

[\*Family Practices in Transforming Clinical Practice Initiative Showed No Changes in Medicare Costs or Utilization\*](#)

TCPI's transforming efforts, such as the outcomes examined in the study, might need a longer time frame to manifest and require evaluation after the full 4-year participation period. The indistinguishable effect of PTN participation may also be attributed to the fact that non-PTN practices might have participated in other initiatives that changed their care and curbed health care utilization and costs consequently.

**Phillips RL**, **Bazemore A**, Westfall J

[\*Increasing Transparency for Medical School Primary Care Rankings: Moving from a Beauty Contest to a Talent Show\*](#)

The U.S. News & World Report (US News) annually ranks educational institutions on several criteria that affect many readers' views of their institutional reputations. One critic of the US News rankings recently declared the medical school rankings a "beauty contest". In attempt to persuade US News to shift the source of its data and diversify the foci of its medical school rankings to reflect a broader range of social mission metrics. Focus was placed on this effort on US News' "Best Medical Schools: Primary Care" ranking because of the ongoing erosion of the primary care physician workforce and because, for some schools, it is a specific social mission.

**Yang Z**, Silcox C, Sendak M, Rose S, Rehkopf D, **Phillips R**, **Peterson LE**, Marino M, Maier J, Lin S, Liaw W, Kakadiaris I, Heintzman J, Chu I, **Bazemore AW**

[\*Advancing Primary Care with Artificial Intelligence and Machine Learning Corresponding\*](#)

Primary care is the largest healthcare delivery platform in the US. Facing the Artificial Intelligence and Machine Learning technology (AI/ML) revolution, the primary care community would benefit from a roadmap revealing priority areas and opportunities for developing and integrating AI/ML-driven clinical tools. This article presents a framework that identifies five domains for AI/ML integration in primary care to support care delivery transformation and achieve the Quintuple Aims of the healthcare system. We concluded that primary care plays a critical role in developing, introducing, implementing, and monitoring AI/ML tools in healthcare and must not be overlooked as AI/ML transforms healthcare.

**Eden AR**, **Bazemore AW**, **Morgan ZJ**, Jabbarpour Y.

[\*Family Physicians Increasingly Deliver Care in Diverse Languages\*](#)

The proportion of family physicians reporting provision of patient care in Spanish changed little between 2013 to 2020 but rose substantially for care delivered in other non-English languages. Physician-patient language concordance is associated with better clinical outcomes and higher patient satisfaction, serves as a proxy indicator for workforce diversity, and should be monitored and encouraged as the US population continues to diversify.

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**Eden AR**, Jones DD, **Bazemore AW**, Jabbarpour Y.

[\*Informing Equity & Diversity in Primary Care Policy and Practice: Introducing a New Series of Policy Briefs, Commentaries, and Voices\*](#)

Recent events remind us that deeply embedded inequities in health care access and health outcomes are rooted in historically white, and male, systems of power. Authors have documented how, in the United States, medicine was built on racist and patriarchal foundations that excluded and marginalized Black and other people of color and women from entering medicine.

Jabbarpour Y, Wendling A, **Taylor M**, **Bazemore AW**, **Eden AR**, Chung Y.

[\*Family Medicine's Gender Pay Gap\*](#)

Female physicians earn less than their male counterparts, and many explanatory factors have been offered to account for these differences. An analysis of the 2019 American Board of Family Medicine New Graduate Survey Data demonstrates that women make 16% less than men, regardless of experience or hours worked.

**Phillips RL**, Devoe J, Krist AH.

[\*FROM ABFM: BREAKTHROUGHS: WHAT HAS THE NASEM REPORT DONE FOR YOU LATELY?\*](#)

Earlier this year, the National Academies of Sciences, Engineering, and Medicine (NASEM) published the first formal consensus study of primary care in 25 years. The consensus committee's report, "Implementing High-Quality Primary Care: Rebuilding the Foundation of Health Care," built on the 1996 Institute of Medicine primary care report. Since the report's launch on May 4, 2021, there have been several efforts to elevate its recommendations as well as some recent breakthroughs in supporting them. Major efforts have included 4 publications in high-impact journals summarizing the report's recommendations; 6 NASEM workshops with high-profile panelists talking about what effective implementation of the recommendations would look like; and dozens of webinars, briefings, and feedback sessions. Discussed in this article are breakthroughs in 4 major areas and acknowledge a need for champions for report objectives that have not been as successful.

**Taylor MK**, Kinder K, George J, **Bazemore A**, Mannie C, **Phillips R**, Strydom S, Goodyear-Smith F.

[\*Multinational primary health care experiences from the initial wave of the COVID-19 pandemic: a qualitative analysis\*](#)

This analysis was done to learn from primary health care experts' experiences from the COVID-19 pandemic across countries. Qualitative thematic analysis was applied to open-text responses from a multinational rapid response survey of primary health care experts assessing response to the initial wave of the COVID-19 pandemic. Respondents' comments focused on three main areas of primary health care response directly influenced by the pandemic: 1) impact on the primary care workforce, including task-shifting responsibilities outside clinician specialty and changes in scope of work, financial strains on practices, and the daily uncertainties and stress of a constantly evolving situation; 2) impact on patient care delivery, both essential care for COVID-19 cases and the non-essential care that was neglected or postponed; 3) and the shift to using new technologies. Primary health care experiences with the COVID-19 pandemic across the globe were similar in their levels of workforce stress, rapid technologic adaptation, and need to pivot delivery strategies, often at the expense of routine care.

## PROFESSIONALISM

**Please be sure to keep up to date on the latest professionalism articles in our [Professionalism Library](#).**

The Library includes peer-reviewed publications, commentaries/blogs, and issue briefs/reports relating to professionalism. The database is reviewed monthly and updated.

Raquel Sofia Sandoval, Spencer Dunleavy, Titilayo Afolabi, Jordan Taylor Said, Jade Connor, Azfar Hossain, Bina Kassamali, Tamina Kienka, Maahika Srinivasan, Anita Cheng, Daniele Ölveczky, Avik Chatterjee  
[Equity in medical education: Addressing microaggressions and discrimination on the wards](#)  
Medical Teacher, December 2021

Tmam A Al-Ghunaim, Judith Johnson, Chandra Shekhar Biyani, Khalid M Alshahrani, Alice Dunning, Daryl B O'Connor  
[Surgeon burnout, impact on patient safety and professionalism: A systematic review and meta-analysis](#)  
AM J Surg. December 2021

Edris Kakemam, Masoud Ghafari, Mahtab Rouzbahani, Hamideh Zahedi, Young Sook Roh  
[The association of professionalism and systems thinking with patient safety competency: A structural equation model](#)  
J Nurs Manag., January 2022

Penelope Smyth, Clair Birkman, Carol S Hodgson  
[Development of professionalism vignettes for the continuum of learners within a medical and nursing community of practice](#)  
Canadian Medical Education Journal, December 2021

Saba Hoobehfekar, Fariba Asghari, Azadeh Sayarifard, Maliheh Kadivar, Shayan Kashefnejad  
[Medical students' perception of professionalism climate in clinical settings](#)  
Journal of Medical Ethics and History of Medicine, August 2021

Rabih Soubra, Ibrahim Hasan, Louna Ftouni, Adam Saab, Issam Shaarani  
[Future healthcare providers and professionalism on social media: a cross-sectional study](#)  
BMC Medical Ethics, January 2022

Please let us know if you are interested in hearing more about our work or if you would like to collaborate with us.

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