

# The Vital Role of Scholarly Concentrations in Medical Education: A Johns Hopkins Perspective on Mentoring and Collaboration at Bezmiâlem Vakıf University

✉ Stephen M. SOZIO<sup>1,2,3</sup>, ✉ Mary Catherine BEACH<sup>1,2,4,5</sup>

<sup>1</sup>Johns Hopkins University School of Medicine, Department of Nephrology, Baltimore, United States of America

<sup>2</sup>Johns Hopkins Medical Institutions, Welch Center for Prevention, Epidemiology, and Clinical Research, Baltimore, United States of America

<sup>3</sup>Johns Hopkins Bloomberg School of Public, Department of Epidemiology, Baltimore United States of America

<sup>4</sup>Johns Hopkins Bloomberg School of Public, Department of Health, Behavior and Society, Baltimore, United States of America

<sup>5</sup>Johns Hopkins University School of Medicine, Berman Institute of Bioethics, Baltimore, United States of America

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## Introduction

As medical education continues to evolve, there is growing recognition that a well-rounded medical school experience cannot be solely defined by classroom lectures and clinical rotations. Today's medical students must be equipped not only with a mastery of basic and clinical sciences but also with the critical thinking, analytical skills, and intellectual curiosity necessary to contribute to the advancement of medicine. One of the most exciting trends in contemporary medical education is the rise of Scholarly Concentrations programs-academic tracks that allow students to explore research, clinical innovation, public health, or other focused areas of study outside the traditional curriculum (1,2). These programs provide students with the opportunity to engage deeply with a subject of personal or professional interest, all while receiving mentorship and guidance from faculty members (3).

At Johns Hopkins University School of Medicine, we have long understood the importance of scholarly

inquiry and the value of research as an integral part of medical training. The Scholarly Concentrations program at Hopkins has been a transformative experience for many of our students, providing them with the tools and frameworks to engage in meaningful research that can have a lasting impact on their careers (4-6). We were, therefore, thrilled to work with our colleagues at Bezmiâlem Vakıf University Faculty of Medicine on establishing their own Scholarly Concentrations program (7). Watching this program grow and seeing the students of Bezmiâlem immerse themselves in research has been a truly inspiring experience.

## The Role of Scholarly Concentrations in Shaping Medical Students

The core value of a Scholarly Concentration is its ability to cultivate a mindset of inquiry and discovery in future physicians. Medical education, while rich in its emphasis on patient care and technical knowledge, often leaves

**Address for Correspondence:** MD Stephen Sozio, JJohns Hopkins University School of Medicine, Department of Nephrology; Johns Hopkins Medical Institutions, Welch Center for Prevention, Epidemiology, and Clinical Research; Johns Hopkins Bloomberg School of Public, Department of Epidemiology, Baltimore, United States of America  
**E-mail:** ssozio@jhmi.edu



limited time for students to explore the broader intellectual dimensions of medicine. Traditionally, medical schools have focused on preparing students to diagnose, treat, and manage diseases, but the complexities of modern healthcare demand more. Physicians must not only provide care but also contribute to the knowledge base that informs the practices they adopt.

By encouraging students to pursue a Scholarly Concentration, we give them the opportunity to develop as independent researchers, critical thinkers, and innovators. Research training is vital not only for those students who will become future academic clinicians or basic scientists but also for all physicians. The critical skills learned through scholarly inquiry—such as problem-solving, data analysis, and evidence-based reasoning—are transferable to nearly every aspect of medical practice. Students involved in research are often better equipped to question assumptions, identify gaps in medical knowledge, and approach clinical problems with a nuanced and evidence-based mindset.

Furthermore, the process of engaging in research gives students the chance to develop a deeper understanding of the scientific method. They learn how to formulate research questions, design experiments, analyze data, and interpret results—all while navigating the challenges of working with human subjects, ethical concerns, and the limitations of current scientific knowledge. In the process, students gain confidence in their ability to contribute to the evolving landscape of medical science and healthcare.

At Johns Hopkins, students in our Scholarly Concentrations program work in areas including basic science, clinical research, public health, history of medicine, and (humanism, ethics, education, and the art of medicine). Students are paired with faculty mentors, who guide them through the process of conducting original research, presenting their work at conferences, and publishing their findings. The

program not only provides students with the chance to explore their academic interests but also helps them forge meaningful relationships with faculty who share their intellectual passions.

### **The Collaborative Effort at Bezmialem Vakif University**

When we began discussions with the faculty of Bezmialem Vakif University Faculty of Medicine, we were excited by the prospect of helping to shape their Scholarly Concentrations program. Our experience has shown us how powerful these programs can be in broadening the educational experience of medical students, and we were eager to share our insights and collaborate in a way that could benefit the students at Bezmialem.

The collaboration with Bezmialem has been a rewarding process, not only for the growth of the Scholarly Concentrations program at their institution but also for the faculty involved (8). It has been truly inspiring to see how excited Bezmialem's students are to embark on their research journeys. Many of whom are now actively contributing to the generation of new knowledge. We have watched them grow from curious novices to skilled researchers, developing confidence in their ability to ask the right questions, challenge assumptions, and contribute to ongoing discussions in their chosen fields.

In the early stages of this partnership, we helped Bezmialem faculty design a curriculum that would integrate research with clinical education, ensuring that students had access to high-quality mentorship and resources to carry out meaningful research projects. We also worked together to establish research opportunities that would appeal to a wide variety of interests, ranging from basic science to health policy and global health issues. The flexibility of the program at Bezmialem has allowed students to pursue their individual passions while also contributing to the institution's research culture.

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One of the most exciting aspects of our work with Bezmialem has been seeing how the Scholarly Concentrations program has sparked a renewed interest in research among students who might not have otherwise considered it as a potential career path. The program is cultivating a new generation of physicians who are not just trained to practice medicine, but are eager to contribute to the scientific discoveries that will shape the future of healthcare.

### **The Impact on Students and the Medical Community**

Perhaps the most gratifying part of our work with Bezmialem has been watching students gain confidence and enthusiasm for their research projects. Several of them have already published their findings in peer-reviewed journals, presented their work at international conferences, and received accolades for their innovative approaches to addressing medical challenges.

The students at Bezmialem have demonstrated a remarkable level of dedication and enthusiasm, and they have proven that there is a growing hunger for research-driven education in medical schools around the world. In addition, faculty mentorship in this student-centered experience provides a nurturing environment for Bezmialem students to pursue interests, challenge assumptions, and explore research and careers. By fostering a strong research culture through programs like Scholarly Concentrations, institutions like Bezmialem can ensure that their graduates are not only well-versed in the clinical skills required, to be competent physicians but also equipped with the intellectual tools to advance medicine in meaningful ways.

This collaborative effort between Johns Hopkins and Bezmialem reflects a broader trend in medical education: The recognition that medical schools must go beyond training students to be clinicians, and must prepare them to be leaders in a rapidly changing healthcare environment. Research and innovation are key components of that preparation, and the Scholarly Concentrations program is an essential part of this broader vision for medical education.

### **Looking Toward the Future**

As we reflect on our experiences with Bezmialem's Scholarly Concentrations program, we are excited for the future. The program is now in its 11th year, and we have already witnessed the profound impact it has had on the students involved. Their enthusiasm for research, their intellectual curiosity, and their commitment to improving healthcare are truly inspiring. As the program grows and evolves, we look forward to seeing even more students at Bezmialem engage in meaningful research and contribute to the future of medicine.

We are proud to be part of this effort, and are excited to continue working alongside the dedicated faculty at Bezmialem to further develop and expand their Scholarly Concentrations program. We hope that this collaboration serves as a model for other medical schools around the world, demonstrating the transformative power of scholarly inquiry and the critical importance of research in shaping the future of medical education.

### **Conclusion**

In conclusion, the value of Scholarly Concentrations programs cannot be overstated. They provide medical students with the opportunity to engage in research, develop critical thinking skills, and contribute to the ever-evolving field of medicine. Our experience with Bezmialem Vakıf University has reaffirmed our belief in the power of research education and has given us hope for the next generation of physician-scientists, who will lead the way in addressing the healthcare challenges of tomorrow.

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