

## LETTERS TO THE EDITOR

# PANDEMIC-ERA MEDICAL GRADUATES AND HEALTHCARE'S NEW LANDSCAPE

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## ABSTRACT

This article explores the preparedness of doctors trained during the COVID-19 pandemic, focusing on their clinical competency, psychological resilience, and adaptability. The shift to virtual learning and reduced clinical exposure has raised concerns about the adequacy of their training, particularly in hands-on clinical skills and patient interactions. However, this generation of medical professionals has also gained unique strengths, such as adaptability and crisis management skills, due to their training during a global health crisis. The article discusses the enriched medical curriculum that includes pandemic management, telehealth, and digital medicine, debating whether this new focus could lead to gaps in traditional medical education. It also addresses the vital role of ongoing training and support in bridging potential gaps, emphasizing the importance of tailored residency programs, mentorship, and lifelong learning. Ultimately, the article argues for a balanced perspective, recognizing both the challenges and the unique capabilities of these new medical professionals. It suggests that with the right support and continued education, pandemic-era medical graduates can effectively contribute to modern healthcare, despite the unconventional circumstances of their training.

**Keywords:** *medical education, COVID-19*

## INTRODUCTION

The COVID-19 pandemic, an unprecedented global health crisis, has left an indelible mark on various sectors, not least on the field of medical education. As medical schools worldwide scrambled to adapt, a pivotal question arose: Are doctors trained during this tumultuous period as well-prepared as their predecessors who completed their education

before the pandemic? This question is crucial, as the readiness of these new medical professionals directly impacts the quality of healthcare delivery in a post-pandemic world.

The pandemic ushered in a seismic shift in medical education. Traditional, hands-on clinical training was suddenly overshadowed by virtual classrooms and remote learning. The necessity for social distancing and the strain on healthcare systems led to reduced access to in-person clinical experiences, a cornerstone of medical training. Moreover, the overwhelming focus on COVID-19, while essential, risked sidelining other vital areas of medical education. This shift has sparked a debate in the medical community about the adequacy of the training these future doctors received (1). Are they as adept in clinical skills and patient management as their counterparts trained in more conventional settings? This

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article delves into the heart of this debate, exploring the ramifications of a pandemic-era medical education and its implications for the healthcare sector.

### **EVALUATING CLINICAL COMPETENCY AND KNOWLEDGE**

The COVID-19 pandemic's impact on medical education, particularly in clinical training, has been significant. Traditional hands-on experience in a clinical setting, essential for developing practical skills and patient interaction, was largely replaced by virtual classrooms and simulated clinical scenarios. This shift raises questions about the adequacy of clinical competency among recent medical graduates.

The reduced direct patient contact and increased reliance on virtual learning tools have likely impacted essential skills development. For instance, mastering physical examination techniques and bedside manner traditionally relies on in-person interactions, an opportunity that was significantly diminished during the pandemic. This reduction in hands-on experience could potentially affect graduates' confidence and proficiency in these areas (2).

Furthermore, decision-making and diagnostic abilities, typically honed through real-life patient encounters, might have been impacted by the lack of traditional clinical experiences. The opportunity to navigate complex cases under the supervision of experienced practitioners is crucial in developing these skills. Without regular exposure to a variety of clinical conditions and patient interactions, graduates may find themselves less prepared in these aspects of medical practice (3).

On the other hand, the unique challenges of learning during a pandemic might have equipped these students with other valuable skills. For instance, adaptability, quick learning, and managing healthcare in crisis situations are competencies that have been inadvertently emphasized during this period. These skills, while not a direct substitute for traditional clinical training, are increasingly important in the modern healthcare landscape.

### **PSYCHOLOGICAL RESILIENCE AND ADAPTABILITY**

The psychological impact of training during a global health crisis, such as the COVID-19 pandem-

ic, cannot be overstated. Medical students faced unprecedented challenges, including rapid changes in their educational environment, heightened exposure to health risks, and the emotional toll of a persistent global crisis. This environment, while challenging, has likely contributed to fostering greater psychological resilience and adaptability among these students.

Resilience, the ability to recover from or adjust easily to adversity or change, has been an essential trait for medical professionals throughout the pandemic. Students have had to adapt to new methods of learning, cope with the uncertainty and stress related to the pandemic, and maintain their academic and professional development in a rapidly changing environment. This continuous adaptation process may have enhanced their ability to cope with stress and uncertainty, traits that are invaluable in the unpredictable world of healthcare.

Additionally, the experience of training during a crisis has potentially equipped these future doctors with enhanced crisis management skills. Being on the frontline or near-frontline as students during a global health emergency offers a unique perspective on handling healthcare crises. This exposure to real-world crisis situations, even in a learning capacity, provides an understanding of disaster response and pandemic management that could not have been replicated in a traditional learning environment (4).

The question arises whether these traits of resilience, adaptability, and crisis management could compensate for potential gaps in traditional clinical training. It is possible that these psychological competencies could make up for some of the practical skills that were harder to develop during the pandemic. The ability to remain calm under pressure, think critically in crisis situations, and adapt quickly to changing scenarios are all crucial skills in medical practice. While they do not replace the need for hands-on clinical experience, they certainly add a layer of competence that is highly relevant in today's healthcare context.

### **THE ENHANCED CURRICULUM: A DOUBLE-EDGED SWORD?**

The COVID-19 pandemic has led to an enrichment of medical curricula, integrating key areas such as pandemic management, telehealth, and digital medicine. These additions address the evol-

ing landscape of healthcare and aim to prepare students for the challenges of modern medical practice. The question, however, is whether this shift in focus makes pandemic-era doctors more or less prepared for future healthcare challenges.

On one hand, this enhanced curriculum has potentially made new medical graduates more adept in dealing with public health crises. Their education has been uniquely tailored to include aspects of pandemic management, a critical area given the increasing likelihood of similar global health emergencies in the future. Furthermore, the emphasis on telehealth and digital medicine is a timely response to the growing trend of technology-based healthcare delivery. These areas of expertise are becoming increasingly relevant and necessary, equipping new doctors with skills that were perhaps not as emphasized in traditional medical training (5).

However, there is a concern that this focus on COVID-19 and related topics might have inadvertently led to a neglect of other important areas of medical education. While pandemic management is undeniably important, medicine is a vast field with numerous specialties and sub-specialties, each requiring in-depth knowledge and expertise. The urgency and all-consuming nature of the pandemic could have resulted in less time and fewer resources being devoted to other critical areas of medical study. This could potentially leave gaps in the overall education of new medical graduates, impacting their preparedness for a broader range of medical issues beyond infectious diseases and public health crises (6).

### **BRIDGING THE GAP: THE ROLE OF ONGOING TRAINING AND SUPPORT**

The transition from medical school to practicing as a doctor is a critical phase, and for those trained during the COVID-19 pandemic, this phase demands careful navigation to ensure they are not at a disadvantage. Practical steps, such as tailored residency programs, mentorship, and continuous professional development, are essential in bridging the potential gaps in their training.

Tailored residency programs can play a pivotal role in this transition. These programs can be designed to address specific areas where pandemic-era graduates might lack experience. By provid-

ing hands-on, supervised experience in a variety of clinical settings, residencies can compensate for the clinical and practical skills that might have been underdeveloped due to pandemic-related disruptions in medical education (7).

Mentorship is another key element. Experienced physicians can offer invaluable guidance, support, and practical insights to new doctors. This relationship can help bridge the gap between theoretical knowledge and practical application, offering a safe space for recent graduates to discuss challenges, seek advice, and learn from real-world experiences. Medical institutions and healthcare systems should actively facilitate mentorship programs, recognizing their importance in the professional development of new medical practitioners.

Moreover, continuous professional development is crucial. Medicine is an ever-evolving field, and lifelong learning is essential for all doctors. This is particularly true for those who graduated during the pandemic, as they may need to catch up on aspects of medical practice that were deprioritized or overlooked during their education. Online courses, workshops, and conferences can provide ongoing education and help these doctors stay abreast of the latest developments in their field (7).

Medical institutions and healthcare systems have a significant role in supporting these graduates. They must recognize the unique challenges faced by pandemic-era medical graduates and provide structured support systems to aid in their professional development. This could include dedicated training programs, access to continuing education resources, and opportunities for clinical skill enhancement.

### **CONCLUSION**

The training of doctors during the COVID-19 pandemic presents a unique blend of challenges and strengths. While there are valid concerns about their preparedness due to reduced hands-on clinical experiences and the heavy reliance on virtual learning, these doctors also possess distinctive skills. Their education amidst a global health crisis has fostered resilience, adaptability, and a profound understanding of public health emergencies. It's crucial to maintain a balanced perspective, recognizing both the potential gaps in their training and the unique capabilities they bring to the medical profession. Address-

ing these gaps through ongoing support and training while valuing their unique strengths is essential. In doing so, the medical community should neither be oblivious to the challenges these new professionals face nor underestimate their adaptability and readiness to contribute effectively to modern healthcare.

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