

Editorial

Advancing Family Medicine through Innovation, Evidence, and Patient-Centered Care

Family medicine is undergoing a profound transformation. Rapid advances in clinical science, digital technology, medical education, and chronic disease management are reshaping how primary care is delivered worldwide. At the same time, aging populations, the growing burden of obesity and multimorbidity, and increasing expectations for evidence-based, person-centered care demand that family physicians continually expand both their clinical expertise and educational approaches. The five papers featured in this issue of the Middle East Journal of Family Medicine collectively illustrate this evolution. Although they address diverse topics—from dementia assessment and obesity pharmacotherapy to residency education and mentorship—they converge around a common message: excellence in family medicine depends on integrating scientific evidence with lifelong learning, innovation, and holistic patient care.

One of the defining challenges facing primary care is the growing prevalence of dementia. As populations age across the Middle East and globally, family physicians increasingly serve as the first point of contact for patients and families concerned about cognitive decline. The comprehensive review on **Clinical Assessment of Dementia** reinforces an important principle that remains highly relevant despite remarkable advances in biomarkers and artificial intelligence: dementia remains fundamentally a clinical diagnosis. The review reminds clinicians that careful history taking, collateral information, functional assessment, behavioral evaluation, neurological examination, and thoughtful interpretation of investigations remain the cornerstones of diagnosis. While emerging blood biomarkers, advanced neuroimaging, and AI-assisted diagnostics promise earlier and more precise disease classification, they should complement, not replace, sound clinical reasoning. This balanced perspective is especially important in primary care, where physicians must distinguish dementia from depression, delirium, medication effects, and other reversible conditions before initiating long-term management.

Another major public health challenge addressed in this issue is obesity, now recognized as one of the most important chronic diseases confronting modern healthcare systems. The review of **incretin-based obesity pharmacotherapy** highlights how treatment has evolved beyond achieving weight loss toward long-term management of cardiometabolic risk and overall health. Landmark trials involving semaglutide and tirzepatide have transformed expectations regarding pharmacologic therapy, while evidence regarding maintenance treatment emphasizes that obesity requires sustained management rather than short-term intervention. Particularly noteworthy is the emphasis on the central role of family physicians, who are uniquely positioned to coordinate individualized treatment plans, monitor long-term adherence, manage comorbidities, and integrate pharmacotherapy with lifestyle interventions. As obesity increasingly affects every aspect of primary care, this review provides timely guidance for translating rapidly evolving evidence into everyday practice.

While advances in clinical science are essential, improving patient care also requires excellence in physician education. Three educational studies from Qatar provide complementary perspectives on how residency training can evolve to meet future healthcare needs.

The proof-of-concept study evaluating an **asynchronous problem-based learning (PBL) curriculum** demonstrates the potential of flexible, technology-enabled educational models to strengthen clinical reasoning while accommodating the realities of modern residency training. The findings suggest that carefully designed asynchronous learning environments encourage deeper reflection, evidence-based discussion, and meaningful engagement with complex clinical problems. Rather than replacing traditional bedside teaching, asynchronous PBL appears to enrich it by promoting self-directed learning, collaborative knowledge construction, and higher-order clinical reasoning—competencies that are increasingly essential in contemporary family medicine. Educational success, however, depends not only on curriculum design but also on understanding how residents learn.

The study examining **factors influencing ABFM In-Training Examination performance** explores the relationships among learning styles, academic stress, prior academic achievement, and examination outcomes. Its findings reinforce the multifactorial nature of educational performance. While kinesthetic learning preferences were associated with improved examination performance, academic stress emerged as an important negative predictor, whereas undergraduate GPA remained a strong positive predictor. Perhaps the most important message is that residency programs should move beyond one-size-fits-all educational approaches. Supporting learners requires attention not only to instructional methods but also to learner well-being, stress reduction, and individualized academic support.

Equally important is the recognition that successful residency education depends upon effective mentorship. The mixed-methods study examining participation in formal mentoring programs highlights that although residents highly value mentorship, its perceived effectiveness declines during the later years of training. Time constraints, competing clinical responsibilities, and evolving career priorities appear to diminish engagement, suggesting that mentorship programs must remain dynamic rather than static. Protected meeting times, structured mentoring relationships, and career-focused discussions tailored to different stages of residency may help sustain meaningful faculty–resident interactions throughout training. In an era where physician burnout and workforce retention have become global concerns, strengthening mentorship may be as important as strengthening curricula.

Taken together, these five contributions illustrate an increasingly integrated vision of family medicine. They remind us that clinical excellence cannot be separated from educational excellence. Better-trained physicians provide better patient care, while advances in clinical science require educational systems capable of rapidly translating evidence into practice. Likewise, innovations in education ultimately serve patients by producing clinicians who think critically, adapt continuously, and embrace lifelong learning.

Several themes emerge across the issue. First, **patient-centered care** remains the guiding principle whether evaluating cognitive impairment, managing obesity, or teaching clinical reasoning. Second, **evidence-based practice** requires not only access to new knowledge but also the ability to critically interpret and apply that knowledge within individual clinical contexts. Third, **innovation** should enhance rather than replace the human dimensions of medicine. Artificial intelligence, digital learning platforms, biomarkers, and novel therapeutics all represent powerful tools, but their value ultimately depends on thoughtful integration into compassionate, individualized patient care.

These themes also reflect broader changes occurring throughout healthcare systems in the Middle East. Countries across the region are investing heavily in primary healthcare reform, postgraduate medical education, digital health, and chronic disease management. Family physicians are increasingly expected to lead multidisciplinary teams, coordinate complex care, manage aging populations, and incorporate rapidly evolving technologies into routine practice. The studies presented in this issue demonstrate that regional investigators are not merely adopting international developments but actively contributing meaningful evidence that addresses local educational and clinical priorities while maintaining international relevance.

While effective pharmacological treatment represents a major advance in obesity management, prevention remains the cornerstone of long-term population health. The paper Obesity and Sedentary Lifestyle – A Practical National Initiative Using Existing Digital Technologies expands the discussion beyond individual patient management by examining how existing digital technologies can be leveraged to promote physical activity at a national level. Building upon the World Health Organization's recognition that physical inactivity affects nearly one-third of adults worldwide and substantially increases the risk of cardiovascular disease, type 2 diabetes, and several cancers, the author describes an innovative public health strategy that combines wearable

technology, smartphone applications, behavioural incentives, and measurable activity targets to encourage sustained lifestyle modification.

The proposed model is particularly relevant to family medicine because it illustrates how primary care can move beyond treating established disease toward facilitating prevention through digital engagement. Family physicians increasingly operate within healthcare systems that incorporate remote monitoring, patient-generated health data, and technology-assisted behavioural interventions. Such approaches complement rather than replace traditional counselling by providing continuous feedback, enhancing patient motivation, and promoting long-term adherence to healthy lifestyles. As healthcare systems increasingly embrace digital transformation, initiatives of this nature demonstrate how readily available technologies can be integrated into national prevention strategies without requiring complex new infrastructure.

The Middle East Journal of Family Medicine remains committed to publishing work that bridges clinical medicine, education, health systems, and research. By bringing together investigations spanning dementia, obesity, educational innovation, examination performance, and mentorship, this issue highlights the breadth of modern family medicine while reinforcing its unifying mission: improving the health of individuals, families, and communities through comprehensive, evidence-informed primary care.

As healthcare continues to evolve, so too must family medicine. The future belongs to clinicians who combine scientific rigor with clinical judgment, embrace innovation without abandoning fundamental principles, and recognize that excellence in patient care begins with excellence in education. The contributions in this issue provide valuable guidance toward achieving that future and underscore the continuing importance of primary care as the foundation of resilient, equitable, and high-quality healthcare systems.

Warm regards,
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