

## Lifestyle Medicine: Healthcare's Missing Piece

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Lifestyle medicine is a branch of medicine that focuses on the prevention, treatment, and potential reversal of chronic diseases through evidence-based lifestyle-focused therapeutic interventions [1]. It is gaining increasing recognition because, it represents a significant shift in healthcare from a reactive model that mainly manages symptoms to a proactive approach that targets the root causes of disease [2]. This approach contributes to long-term improvement in health outcomes and reduces the risk of developing non-communicable diseases (NCDs) such as diabetes, hypertension, and obesity, as lifestyle factors are key determinants of these conditions [2].

Lifestyle medicine is based on the implementation of six essential pillars: healthy nutrition, regular physical activity, adequate sleep, stress management, avoidance of harmful substances such as tobacco and alcohol, and strengthening social connections [1]. Evidence from various studies suggests that lifestyle modifications can prevent, control, and even reverse certain chronic conditions, including type 2 diabetes, hypertension, obesity, and cardiovascular diseases, by addressing underlying risk factors [2-4].

This field promotes an integrated and multidisciplinary approach in which physicians, nutritionists, psychologists, and other healthcare professionals collaborate to provide comprehensive and holistic care. Such an approach not only improves physical and mental health outcomes but also fosters a stronger connection between physical, psychological, and social well-being. A patient-centred model further empowers individuals to take an active role in managing their health [3].

Lifestyle medicine complements rather than replaces conventional medical treatment. Its purpose is to create synergistic effects by combining pharmacological management with structured patient education on healthy diet, physical activity, stress reduction, and cessation of harmful substance use [3]. This approach is particularly cost-effective for developing countries, as it emphasizes prevention and health promotion, thereby reducing the overall burden of disease and healthcare expenditure [5, 6].

Despite its proven benefits, several challenges hinder the widespread implementation of lifestyle medicine. These include limited consultation time and insufficient training for healthcare

providers, lack of awareness about its effectiveness, inadequate resources—especially in rural settings—poor patient adherence to lifestyle changes, limited research evidence, insufficient insurance coverage, and disparities in healthcare access due to unequal resource distribution [7, 8].

To address these barriers, healthcare systems need to invest in provider education and training to enhance awareness and competency in lifestyle-based care. Payment models should support longer patient consultations to facilitate counselling and behavior change. Additionally, strengthening multidisciplinary teams and increasing research funding will help expand the evidence base and promote broader implementation. Advances in artificial intelligence may also support the development of innovative digital tools and applications to deliver lifestyle interventions, particularly in resource-constrained urban and remote settings [7-10].

### CONCLUSION

Lifestyle medicine is an emerging discipline that is transforming the overall approach to healthcare by emphasizing prevention, patient-centered care, and holistic well-being. It encourages treating patients as individuals rather than merely clinical cases, with attention to their physical, mental, and social health needs. Integrating lifestyle medicine into routine clinical practice and health policies is essential to address the growing global burden of chronic diseases and to build a sustainable and patient-centered healthcare future.

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### CONFLICT OF INTEREST

Declared none.

### REFERENCES

- [1] Evang L, Lewis JE, Nicanord EJ. Effects of the six pillars of lifestyle medicine on the performance of high school athletes: A systematic review. *Am J Lifestyle Med* 2025; 14: 15598276251388632 [Online ahead of print]. doi:10.1177/15598276251388632.

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- [2] Pikula A, Gulati M, Bonnet JP, Ibrahim S, Chamoun S, Freeman AM, *et al.* Promise of lifestyle medicine for heart disease, diabetes mellitus, and cerebrovascular diseases. *Mayo Clin Proc Innov Qual Outcomes* 2024; 8(2): 151-65. doi:10.1016/j.mayocpiqo.2024.01.003.
- [3] Rosenfeld RM, Grega ML, Gulati M. Lifestyle interventions for treatment and remission of type 2 diabetes and prediabetes in adults: Implications for clinicians. *Am J Lifestyle Med* 2025; 25: 15598276251325802 [Online ahead of print]. doi:10.1177/15598276251325802.
- [4] Sannidhi D, Abeles R, Andrew W, Bonnet JP, Vitale K, Niranjan V, *et al.* Lifestyle medicine for obesity in the era of highly effective anti-obesity treatment. *Nutrients* 2025; 17(14): 2382. doi:10.3390/nu17142382.
- [5] Whittington MD, Goggin K, Tsolekile L, Puoane T, Fox AT, Resnicow K, *et al.* Cost-effectiveness of lifestyle Africa: An adaptation of the diabetes prevention programme for delivery by community health workers in urban South Africa. *Global Health Action* 2023; 16: 2212952. doi:10.1080/16549716.2023.2212952.
- [6] Bettini R, Sehgal V, Esquivel MK, Abraham AJ. Lifestyle medicine and mitigating the rising cost of healthcare. *Am J Lifestyle Med* 2026; 5: 15598276261423086 [Online ahead of print]. doi:10.1177/15598276261423086.
- [7] Frates B, Ortega HA, Freeman KJ, Co JPT, Bernstein M. Lifestyle medicine in medical education: Maximizing impact. *Mayo Clin Proc Innov Qual Outcomes* 2024; 8(5): 451-74. doi:10.1016/j.mayocpiqo.2024.03.003.
- [8] Koomen LEM, Deenik J, Cahn W. Barriers and facilitators of taking a lifestyle history and referral to lifestyle interventions in mental health. *Am J Lifestyle Med* 2024; 13: 15598276241261670 [Online ahead of print]. doi:10.1177/15598276241261670.
- [9] Saeed DK, Nashwan AJ. Harnessing artificial intelligence in lifestyle medicine: Opportunities, challenges, and future directions. *Cureus* 2025; 17(6): e85580. doi:10.7759/cureus.85580.
- [10] Chaput JP, Lopes MVV, LeBlanc AG, Goldfield GS. Is it time to better harness artificial intelligence for improving lifestyle behaviours? *Int J Public Health* 2026; 71: 1609519. <https://doi.org/10.3389/ijph.2026.1609519>