Editorial

The Future of Digital Health

In fact, digital health is the application of information theory and communication technology based on artificial intelligence (AI) to exchange medical information. Digital health involves connecting health-related data, including data generated by patients themselves, and harnessing the power of common technological tools, such as smart phones, health bands, apps, platforms, social media, and sensor devices that exist in the living environment. Digital health as the flow of data from patients (patient-generated data) remotely, not just in hospitals, to devices or health professionals (who analyze and interpret the data), then back to required devices, which describes the data, it means that finally the information and treatments needed by the patient are recommended and managed. The good news is that using AI to create intelligent processes and workflows can make healthcare simpler, cheaper, more effective, more personalized and fairer. Machine learning, a popular subfield of artificial intelligence, uses large data sets and identifies patterns of interaction between variables. These techniques can uncover previously unknown diseases, generate new hypotheses, and lead researchers and clinicians to automatically understand disease and make medical decisions and answer questions. Today, digitalization has reached all aspects of life. The convergence of innovative technologies and biomedical science is advancing rapidly and transforming medical and health services. Current health care models are in transition and are gradually becoming digital health care, moving beyond traditional hierarchies and providing valuable services to patients.

In order to achieve the strategic goals of digital health, relevant officials should try to link medical science with artificial intelligence and digital systems. It is worth mentioning that this position requires digital literacy in health that both the medical system and the patient must be taught. The important thing is that digital literacy is not only its applications, but it needs interdisciplinary connection and scientific convergence, the driving engine of which is formed in the first-hand research of basic sciences and engineering. Therefore, the future of medical services will reach personalized medicine and the infrastructure of digital systems depends on its advanced literacy. The principle of literacy is formed in transcendental education and construction goes back to engineering sciences. Therefore, medicine and health services need knowledgeable human resources in the field of digital health that are educated and cultivated in other fields. This foresight teaches us that medical science and its services need education, scientific and research integration that deserves attention now.

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