Progressive Development of Medical Technology for Health

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In recent years, health issues have gained prominence, with a focus on health promotion and disease prevention [11; 30; 31]. Healthy diet and exercise have therefore gained popularity [33]. Digital transformation has accelerated this trend even further [27]. Online sources that allow easy price comparison and reservation are being used to sell medical goods and services [28]. This results in greater interest in promoting health [16]. Healthcare companies are expected to enter the online market in the future, as everyone wants to have good health and long life [18].

Currently, artificial intelligence (AI) technology is being used. in the delivery of healthcare services to improve the efficiency of patient care [6]. be a tool to collect data and provide various information quickly and accurately to both patients and medical staff, including electronic medical records (EMR), which is a medical document stored in electronic format [4]. In electronic format Electronic Documentation System (EDS) to store documents in treatment [13; 15] and patient care Personal Health Records (PHR) Patients' personal health records where patients can record their own health information, and e-Nursing Kardex, a patient record system recorded by the nurse caring for the patient [21]. instead of writing the information down on a notebook, enter it into the data center. to increase the accuracy of data collection The cloud service stores all patient- and treatment-related data and makes it accessible in real time and from any location [9; 20].

In terms of health diagnosis, A variety of technologies have been developed. And new technological discoveries and innovations have been used in many medical examinations. A simple example is the widespread use of AI in diagnosis, which helps analyze medical images [22]. It displays the results in the form of a heat map, helping doctors find abnormal areas faster and more accurately [26]. in addition to neurological diseases such as Alzheimer's and Parkinson's [14]. This is just another example of AI in the medical profession. It can transmit 3D ultrasound images in real time and upload data to the cloud service so that the data can be accessed anywhere. And there is a system that helps to automatically characterize and diagnose images [25]. The files can also be forwarded to specialists in different locations for viewing. This is currently one of the treatment options for various conditions and diseases [7; 35]. In the future, rehabilitation medicine, especially organ transplantation, will become more efficient after the introduction of 3D printer technology [32]. The value of medical 3D printing is expected to reach $6 billion by 2027. As a result, medical 3D printing technology will be reliable [1; 2] and access to more capabilities with more complex materials and systems, for example, the cost and time to produce durable implants can be reduced [8] or fully functional bionic prosthetics [10] or surgical instrument design and customized or personalized medical devices [12]. Helps make treatment more effective.

In preventive medicine, AI is used for predictive analytics. By using patient data from the past, future trends can be identified [29]. This can help physicians understand the risks and possibilities of disease progression and the patient's health status. This allows them to design a more effective care plan. Telecommunication technology, which is developing day by day, will cause various systems to become more advanced and faster [3]. We can now shoot images using our cell phones. Record video clips, listen to music, or link to other web media so that we may see moving graphics while still hearing our chat partner's voice. For the medical and public health field. This technology has been used to care for patients who are far away. Telemedicine or telehealth by providing health services to

people who are far away by medical professionals [24]. It relies on information and communication technologies to share information useful for diagnosis, treatment, and prevention, including research studies and for the benefit of continuing education of medical personnel, and like all social media, it aims to make connections more real. As virtual communities will play an increasingly important role with patients in 2023 [17], DailyStrenght gave an example of the role virtual communities will play in helping patients share treatment experiences or providing encouragement to patients with similar conditions to help change patient behavior in a better direction [23]. And in the coming years, there will tend to be more comprehensive care for patients through a virtual society [19], especially for patients who have difficulty accessing treatment. Patients in outlying places or those in need of long-term care. As technology advances, new medical technologies will emerge to improve therapy and usher us into the domain of future health.

Based on the above health technology information, we can imagine that next, when a person is sick, you can go to the computer Open an online disease screening system and talk to your doctor or specialist. They can diagnose and order medicines over the Internet or have them delivered shortly. Nano systems or computer systems give this capsule the order to run along the organs through the body. If something is wrong, an alert is immediately sent to your personal doctor.

No matter how advanced medical technology is to support diagnosis, prevention and control, continuous and timely medical treatment, but the incidence of disease has not decreased. On the contrary, sometimes modern technology causes new diseases and recurrent diseases, including chronic diseases with frequent occurrence, which is a serious problem for health promotion. Therefore, when selecting and using health-related technology, it is necessary to consider the purpose. You should use technology that is convenient to use. can be used properly and considers the benefits of the desired health technology. There may be hazards or risks to health and safety.

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