



DIGITAL SKILLS IN HEALTHCARE (BMSW4003)

Assessment 1



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Introduction

Digital skills mean having the faculty and knowledge of using technology such as digital devices, communication applications and network to access and manage information. Digital skills in the healthcare sector are useful for therapeutic innovation, communication between patients and doctors, and search for information.

This assignment is structured as follows: it will talk about the development of the technology and how it had an impact on the world and especially on the healthcare sector, it will explain the importance of the new technology during the pandemic period (COVID-19), whether it was an advantage or a disadvantage.

We can see that digital communication is very important for healthcare in the 21st century, over time it has improved and become very useful, it will talk a little bit about it, and show how the digital communication improved.

It will also address the topic 'digital literacy', explain its importance for healthcare and how it impacts their living, learning, working, participating, and thriving in a digital society.

Finally, in the last topic it will discuss what is importance of data handling.

➤ **The use of contemporary technology in healthcare**

Technology is a product of science and engineering that includes a set of tools, methods, and techniques for solving problems. It is a practical application of scientific knowledge in various fields of study. Affects the way people communicate, learn, and think, help society, and determine how people interact every day. It has a positive and negative impact on the world and affects daily life.

In medicine and healthcare, digital technology can help transform unsustainable healthcare systems into sustainable ones, balancing the relationship between healthcare professionals and patients, providing cheaper, faster, and more effective solutions to disease - technology can also help us win the fight against cancer. Consequently, it improved the quality of life over time, and it has saved many lives.

Therefore, technology plays a very important role in the field of medicine or health. This technology has many advantages in the medical industry, but it also has disadvantages. These are some examples of advantages and disadvantages:

✓ **Advantages:**

1. **Communication Systems in Healthcare Hospitals:** There are many devices made for patients who contact a doctor or nurse. These kinds of digital devices are made for patients deployed in hospital rooms and wards of hospitals. In case of emergency, the patient can click a button on these devices. It notifies the doctor or nurse when it is coming for the patient.
2. **Technology to improve medical services in hospitals:** There are many technical equipment and equipment that can improve the medical services or treatment of patients. Portable defibrillators, medication management technology, MRI systems, and electronic vein monitors are new technical equipment to improve patient healthcare.
3. **Electronic Patient Health Records in Hospitals:** Patient Health Records are now stored on a computer. Most of the time in hospitals or at specialists, the complete medical files of the patient are stored on the computer. Patient medical records are stored in databases or on cloud servers. records in computer system faster than working on paper. Take less time instead of paper documents.

✓ Disadvantages:

1. Rising patient treatment costs: Rising treatment costs are also one of the drawbacks of medical technology. Almost all treatments and surgeries that are performed through technology are very expensive, such as robotic surgery, while other types of technical mechanical surgery are very expensive. And most of the patients are in rural areas, they are poor. For poor patients, it is impossible to pay for expensive operations. technology increases healthcare, but also increases its cost. It is impossible to pay for the patient.
2. Lack of Patient Information: Lack of information is also a disadvantage of medical technology. Safety and privacy are part of the hospital's laws to protect patient privacy. However, technology can break this law. Patient information stored in a hospital's computer database may be exposed. Computer systems may be hacked, and confidential information about patient care may be stolen or altered. If someone changes the overall history of the patient's treatment. Therefore, it can be dangerous for the patient's next treatment.
3. Automatic machine treatment: There is a machine attached to the patient's body. Analyse the patient's body and insert a drug into the patient's body according to fitness. This machine is created by programming if there is a mistake and a bug. Patients can insert an incorrect diagnosis into the patient's body. It is therefore very harmful to the patient. A significant state of the patient and the death of.

➤ The use of technology during Covid-19

In times of isolation due to the pandemic, new forms of communication were created due to social distancing and new ways of serving the public. New technologies have been of great help in improving virtual life and these improvements are here to stay, there is every indication that they will be used in the future.

Being able to communicate with others while living apart will alleviate some of the negative effects of isolation as well as the economy. With new demands and the adoption of new habits, demand for certain types of services has increased. Teachers and students have had to adapt to distance education through online tools. Companies are looking for new features to be able to integrate teams and stay productive while working remotely. Businesses based on direct selling start operating through online sales.

➤ **The use of digital communication, collaboration, and participation**

Digital communication, collaboration, and participation analyse how you interact with others. It focuses on how you work with people, how to come together and make connections through digital media. There are many types of digital communication, usually called digital communication channels. These include email, phone calls, video conferencing, and various types of instant messages, such as text messages and web chats. Even blogs, podcasts, and videos are considered forms of digital communication.

DIGITAL COMMUNICATION: The capacity to communicate effectively in digital media and spaces.

DIGITAL COLLABORATION: The capacity to participate in digital teams and working groups.

DIGITAL PARTICIPATION: The capacity to participate in, facilitate and build digital networks.

Digital communication has helped a lot in communication between patients and doctors. Nowadays, it is much easier to share a diagnosis or send a prescription using email, messages, etc. without going to the hospital or the GP. Using video calls makes communication more practical and reduces the contagion of certain diseases.

➤ **The use of digital literacy for professional career development**

Digital literacy means being able to understand and use technology. It involves the ability to find, use and create information online in a beneficial and useful way. Digital literacy also means knowing the limits of technology and understanding the dangers and precautions involved in its use.

Digital Literacy is essential for communication, collaboration, and advocacy in the medical world. Patients have become more empowered to use the internet and social media to obtain medical information and to use digital devices / apps to manage their health. Meanwhile, telemedicine and mobile health are emerging. However, many hospitals show slow speeds to integrate the latest technology into their systems, separating them from the mainstream and potentially limiting the quality of treatment offered by their providers.

It can improve your professional and personal life in several ways:

- ✓ Making connection with friends, family, or colleagues.

- ✓ Saving time.
- ✓ Increased safety
- ✓ Creating an online presence
- ✓ Getting information on a globe scale.
- ✓ Learning faster and teaching others.
- ✓ Lifelong learning.

➤ **The relevance of technical proficiency for data handling and information**

The data refers to the original input, which will produce significant output after being processed or arranged. Information is usually the result of data processing. When data is processed into information, it becomes interpretable and meaningful. In TI, symbols, characters, pictures, or numbers are all data. Data management is an integral part of the functioning of a healthcare organization. It helps vendors communicate with each other and makes organizations run more smoothly. More importantly, it improves the health outcomes for the patients in the system. The management of health data is regulated by law, in particular HIPAA.

Health data includes but is not limited to:

- Patient demographics.
- Medical notes.
- Laboratory test results.
- Procedures and surgeries.
- Imaging, like x-rays, computerized tomography (CT), and MRI.
- Prescriptions.
- Referrals and other communication.
- Provider information, etc.

➤ **Conclusion**

As a result of a lot of research and a lot of new information that we have obtained, we can conclude that technology is advancing more and more, because each of the advances and improvements in technology has its own drawbacks and advantages. I believe that in the future, there are more ways to explore our health and more ways to improve our health by discovering cures for almost every disease, including cancer and HIV. As technology is always changing, education for healthcare professionals and seniors will also increase.

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