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Introduction

This structured report is going to evaluate the use of technology, digital tools and techniques that improve efficiency in healthcare. It will look at the relevance of digital literacy for healthcare practitioners and professionals and how it impacts their living, learning, working, participating and thriving in a digital society.

It will also address the use of contemporary technology in healthcare, the use of technology during Covid-19, the use of digital communication, collaboration and participation, Digital identity, well-being and safety, the use of digital literacy for professional career development and the relevance of technical proficiency for information, data handling.

The use of contemporary technology in healthcare

Technology has presented a huge and desirable difference to the healthcare industry. Patients now have access to some of the best diagnostic tools, up to date treatments, and a myriad of minimally invasive procedures resulting in not as much pain and rapid recovery.

Distant consultations with experts, targeted treatments, and the readiness of instinctive mobile apps have guided to better patient care and a higher healthcare encounter in general. Additionally, the ease of access of up-to-date treatment technologies leading to better results has increased the quality of life of the patients as well. (Jones, 2018)

Electronic Medical Records

Imperial College Healthcare NHS Trust use A system called Cerner.

The Cerner electronic medical record (EMR) is a joined database that give a full set of competence. Cerner produced it to let healthcare professionals to electronically keep, record and access patient health information in both the acute and ambulatory care setting.

It lets you to give immediate access to patient results and clinical information beyond care disciplines, enable that healthcare organizations meet The Joint Commission requirements for patient confidentiality and acquire patient details securely from wherever and whenever it is most suitable for the care team.

Crucial Benefits are better patient care as clinicians can concentrate on the patient's general health and not just the experience, increased regulation by placing immediate, updated details with the care team in time to make fast and effective decisions and increased access to data from several locations in the health system

Cerner EMR software solutions for Imperial College Healthcare NHS Trust has specialties, such as: Patient information, Ward View Graphing, Appointments, Overview, Obs & Assessments, Allergies, Problems & Diagnoses, Procedures & Diagnoses, Histories, Orders, Results, Structured Notes, Record View, From Browser, Multimedia Manager, Activities, Medications, Drug Administrations, Drug Admin Summary, PGD, Growth Chat, Med Request, Medi Viewer Portal and Plan of Care Summary.

Imperial College Healthcare NHS Trust has decreased writing notes time by over 50 percent to give more systematic and successful care. Imperial College Healthcare NHS Trust (Imperial) carried out near immediate record of patient observations/vital signs directly into

their electronic patient record, freeing an approximately 5,800+ nursing hours to patient care over a 15-month period.¹

“That time can be used in direct patient care that supports patient outcomes, but actually supports the nurses’ well-being as well,” said (Bolger, 2021)

London-based Imperial consist of 5 main hospitals and a staff of over ten thousand who assists more than one million patient contacts yearly. (Cerner, 2021)

The use of technology during Covid-19

Digital technology has exhibited considerable ability in changing the way we provide healthcare. As a rather a up to date growth in health, it has already generated substantial opportunities for people and health systems alike, from better data sharing and analysis to lessening costs, and running the care of patients and sickness. Yet there are dangers that come with the use of digital technology, especially in terms of security, which need to be reviewed and managed with a flexible attitude. In this fast emerging and developing field, we have carried on with enlarging our work on digital health, concentrating on areas such as the use of electronic health records and healthcare data to better care quality and safety.

Ensuring better quality in AI technologies

Imperial has been collaborating with DeepMind and Google Health on the style and use of new AI technologies in healthcare, such as experimentation that we are performing with the Cancer Research UK Imperial Centre to find out whether AI could better breast screening and lead to eminent diagnostic accuracy.

We also assisted advance Streams, a digital alerting and decision aid smartphone app that is presently being tested in some NHS hospitals. In these partnerships, we have also been concentrating on growing the standards for digital and AI evidence reporting. (Imperial 2021)

The use of digital communication, collaboration and participation

Digital communication, collaboration and participation focuses on the process in which you interconnect with others. It focuses on how you function with people, unite and associate through digital means. Some examples of the types of digital competence you might think about here are: Liaising with others using a variation of tools such as email, social media, photo sharing, presentations and video. Taking into consideration of diversity when liaising with others, being cautious to steer clear of wrongdoing, style individual transmission for different reason: to convince, notify, delight and assist. Work online with others on projects,

to share files, work on records and finalise task lists. Take part in an online meeting or seminars, Share the digital information you have created with others, Some people may even be able to: set up an online community, Manage your contact online, Understand how digital content and interactions can sway a person's behaviour. (Toolkit, 2021)

Digital identity, well-being and safety

You may already be using social media platforms like Facebook and Instagram to connect with friends, but now that you are at University you should consider exactly how you are using these tools. Our Academic Skills Checklist encourages you to think about the importance of your digital identity and how you manage it.

Social media can be a great way to connect with other students, researchers and tutors. It can also give you the opportunity to engage in current academic debate. Many Departments and Schools of Study at Sussex have their own social media accounts that you can follow, along with professional services like the Library. Following academics from your field can give you an insight into the emerging conversations in your area. It can also show you how to use these networks successfully. For example, if you use Twitter, you can see how they use hashtags for certain topics. Given the potential reach of the network that you build, you should consider what your posts and photos will say about you to peers, tutors, and potential employers (not just your old college friends). A comment that you post may seem funny now, but in a few years' time will it undermine the professional image that you are trying to project?

You should also consider your online safety and think about what information you want to keep private. For example, is it a good idea to share your address in your Instagram Bio if you are posting photographs about being on holiday?

In addition to your safety, your digital wellbeing is also important. Smartphones, tablets, and laptops can be incredibly helpful when you are studying they enable you to look at lecture notes and online journals on the go - making the most of your time. However, this also means that it can be very hard to disconnect and take a break. Some of the Digital Tuesday workshops that take place in the Library Open Learning Space will show tools and apps, such as Forest, that can help you to avoid digital overload. Guidance and support for your health and wellbeing can also be found on the Health and Wellbeing and Student Wellbeing webpages. (US,2021)

The use of digital literacy for professional career development

Developing Employability (2021) Urges that "Digital literacy is the ability to identify and use technology confidently, creatively and critically to meet the demands and challenges of life,

learning and work in a digital society”. For example, having the expertise needed to reside, study, and work in a community where services and access to information happens regularly by multimedia like internet platforms, social media, and smartphones.

The relevance of technical proficiency for information, data handling

Data handling is the act of making sure that study details are put away, logged and destroyed in a confidential way throughout and following the finishing of study focus. It involves the growth of plans and course of action to control information digitally and through hard copy methods.

It provides border both computers and hard copy structure, like paperwork's, logbooks, and laboratory notebooks. Computers cover laptops, Personal Digital Assistants (PDA), storage media such as, CD, DVD, memory cards, and other electronic instrumentation. These methods could be used for keeping, documentation, sharing, and discarding information so it needs sufficient arrangement from the beginning of a study project so that the topics linked to data coherence can be looked over and communicated.

Conclusion

Beyond Digital learning has become very essential for steering our individual and work life. When we grow to a phase that we feel assured with our digital learning, it gets easier to change into learning about electronics. Such as computer literacy, it has become more mandatory for undergraduates and workers to become digitally literate, so it is better to empower ourselves with computer literacy quickly. Luckily, some organizations may teach digital skills into the first-year courses as part of the first-year experience since they acknowledge its importance.

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