

University of Wales Trinity Saint David

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Digital Skills and Research Methods



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Introduction

- ▶ The use of technology is increasing healthcare services to enhance the quality of care services and offer effective medication based on expert knowledge and wider research.
- ▶ This presentation shall discuss the use of contemporary technologies in healthcare and during covid-19.



The use of contemporary technology in healthcare

- ▶ **Diagnostics:** Technological intervention has a significant impact on diagnostic services, as it has increased transparency in services by providing patients, families and medical staff access to clinical documentation.
- ▶ Similarly, machine learning systems and AI-based tools are used for clinical analysis and optimising cognitive performance (healthmanagement.org, 2022).



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- ▶ **Administrative:** Technology is making administrative operations more efficient and effective.
- ▶ These operations play important roles in managing patient history and keeping records of medical staff and other resources.



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- ▶ **Care Support:** Technology-enabled care services (TECS) are gaining popularity due to convenience and wider reach.
- ▶ It is developed by NHS commissioners to maximise the value of care services for the health economy (England.nhs.uk, 2022).



The use of technology during Covid-19

- ▶ Digital technologies have been used widely during the covid-19 pandemic for supporting public health response to pandemics worldwide.
- ▶ A large number of smartphones, online datasets, machine learning and connected devices were used to create awareness about health and safety and make health consultations and testing accessible during the pandemic.



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- ▶ Data dashboards have been used extensively during the pandemic to collate real-time public health data such as testing figures, confirmed cases and deaths.
- ▶ Drones and robots were used in hospitals for transporting medicines without human intervention.



The use of digital communication, collaboration, and participation

- ▶ **Digital communication** includes the exchange of ideas and information using webinars, emails and online lectures.
- ▶ Communication using digital tools such as websites, social media, text messages and emails are used to keep track of patient health and provide timely support to avoid major health risks.



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- ▶ **Digital collaboration** indicates the capacity to participate in digital workgroups and teams (Learning, 2019).
- ▶ **Digital participation** in healthcare means active participation in building digital networks for collaborations and communication (Learning, 2019).



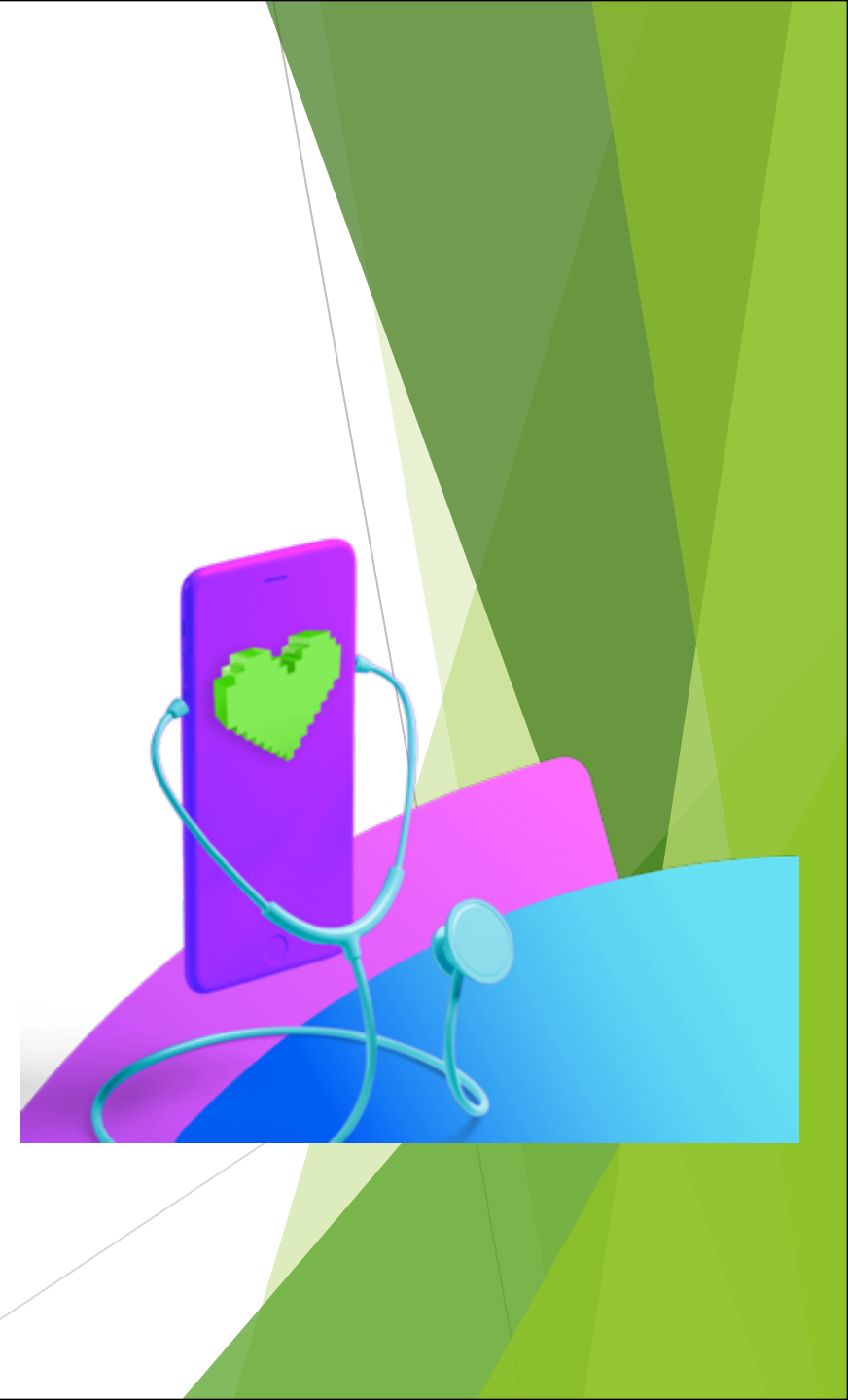
Digital identity, well-being, and safety

- ▶ **Digital identity** means the capacity to develop and project a positive identity on digital platforms.
- ▶ This is generally used to manage personal or organisational reputation during digital communication and collaborations (Richardson and Milovidov, 2019).



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- ▶ ***Digital well-being*** means the capacity to ensure personal health and safety, work-life balance and positive relationships in digital settings.
- ▶ Healthcare professionals and organisations can ensure digital well-being by being responsible and accountable for their activities on digital platforms.



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- ▶ **Digital Safety** means the capacity to use digital tools and information wisely for patient and employee safety.
- ▶ Cyber threats are increasing with the use of unsecured digital communication platforms.
- ▶ Hacking, unauthorised access and face identities are major risks related to the use of digital technologies



The use of digital literacy for employee well-being and their professional career development

The relevance of technical proficiency for data and information handling

- ▶ Technical proficiency is an important requirement for data and information handling in healthcare organisations due to the increasing use of technologies for data management.
- ▶ Information handling is a critical function in healthcare services, as small misinformation can have severe consequences.



Conclusion

- ▶ Thus, it can be concluded from the presentation that the use of contemporary technologies is increasing in diagnostic, care support and other healthcare operations. AI enables tools and wearables to be used for health monitoring and clinical decision-making. It is also seen that technology was widely used in healthcare during the covid-19 pandemic.



Reference List

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Thank You!
Any Questions?