

Group LOL

Digital skills and research methods

UWTSD CERT.HSC

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Telemedicine



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Greater patient
engagement



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Memory aids



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Lifeline personal
service



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Communication aids



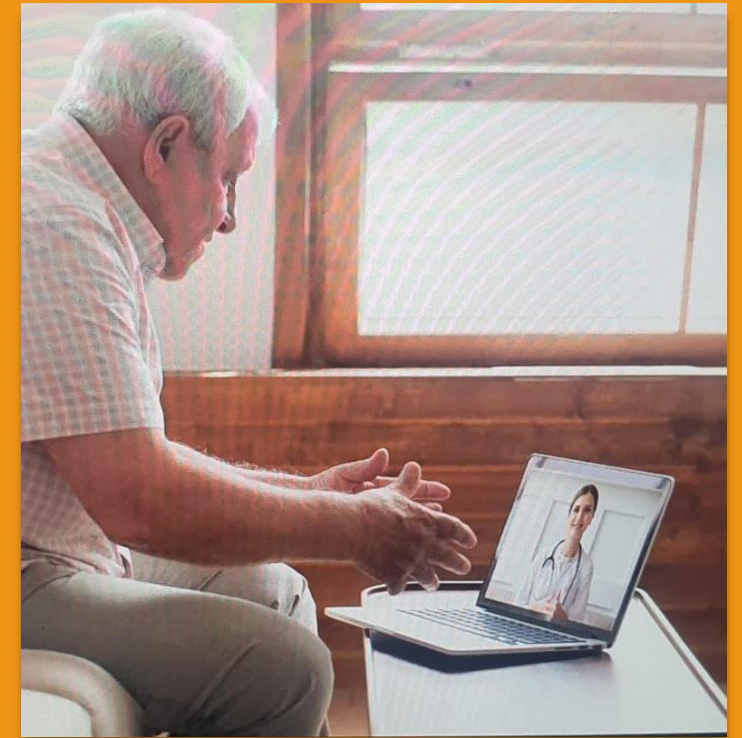
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Introduction:

- Telemedicine
- Greater patient engagement
- Examples of technologies use in healthcare
- Lifeline personal service
- Communication aids

Telemedicine

- Telemedicine represents a new technology that is sometimes referred to as revolutionary innovation and it uses a variety of digital communications
- Telemedicine is utilized in several ways throughout the epidemic and has been contributing a significant amount to healthcare and it helped a lot of people who suffer from chronic problems to have teleconsultations from their homes and thus reducing their chance to take the virus.
- Currently, the most important barrier to the implementation of telehealth within the COVID-19 solution remains that although certain hospitals and substantial physician practices can provide treatment via telehealth, most institutions and independent clinics are not.(Chunara et al.,2021)



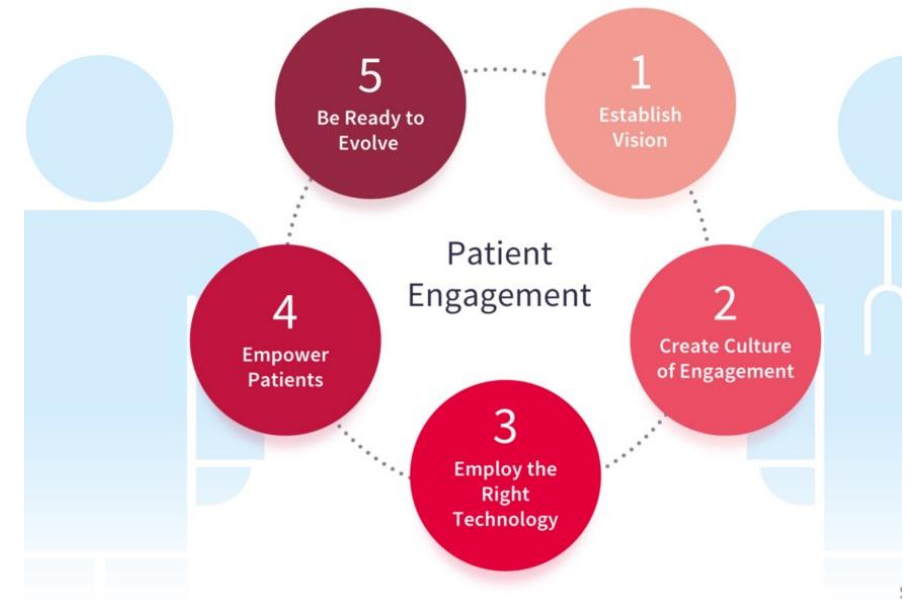
Digital communication, collaboration, and participation

- Remote Surgery Patients can increasingly utilize communications infrastructure to call a physician or conduct a video chat with a physician utilizing real-time footage for a diagnostic .(Majumdar,2019)
- Nonverbal communication remains a crucial element of doctor-patient engagements, although little seems understood about its consequences on patients' communication habits.(Roter,Frankel and Judith,2006)
- Participation of users throughout system development influences the contentment of medical professionals, their assessment of quality care, and utilization frequency.(Demiris,2006)
- It is essential to verify that the computer system does have a safe storage mechanism for these tests so that the information may be accessed when necessary



Greater Patient Engagement

The term "patient engagement" refers to the process of building the capacity of patients, families, carers, as well as health care providers, to facilitate and support the active involvement of patients in their own care, in order to enhance safety, quality and person-centred care.



What are the benefits of Greater Patient Engagement With The Help Of Technology?

The benefits:

- Improvements to make informed decisions about their care options
- A better use of resources
- The patient's quality of care is prioritized
- Patients are to access their own personal care plans able
- Patients can access their personal medical information such as medication , immunizations, lab results etc.
- Schedule non-urgent appointments



Areas For Greater Patients Engagement

Collecting information about the patient experience and outcomes of care

Information can be collected through surveys, patient feedback and focus groups.

It is important to receive patient feedback as it helps improves the quality of care and provides insight into patient needs, preferences and values.(Judith Bell 2018)



Examples of technologies used in healthcare

Memory aids

Lifeline personal
alarm service

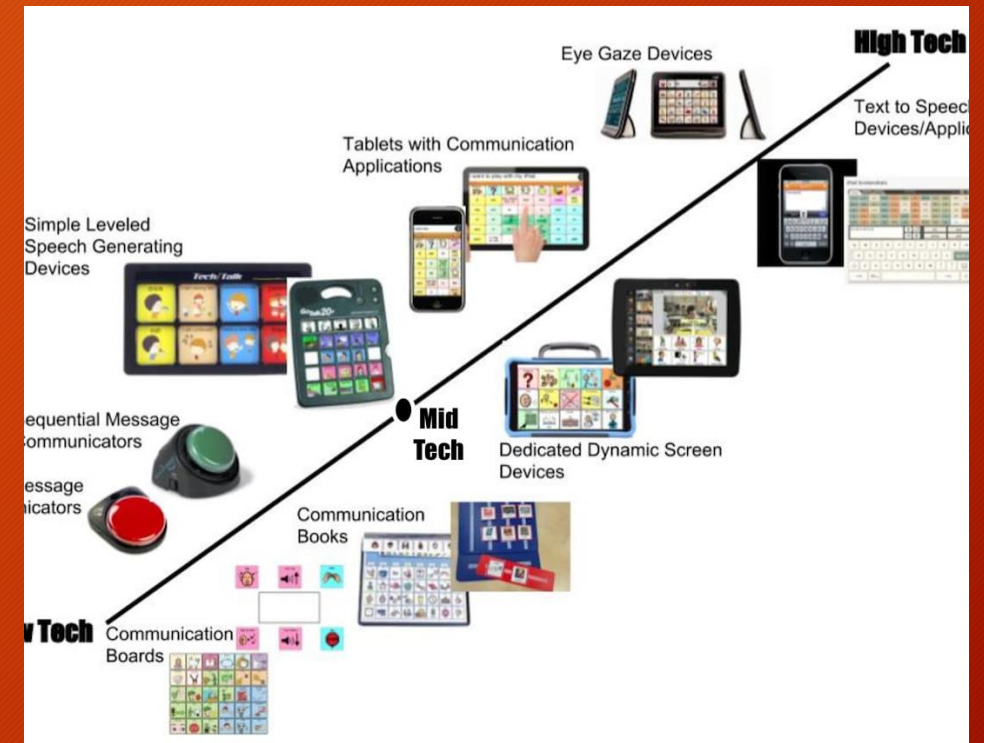
Communication
aids

Memory aids

More than 850,000 people in UK suffer from dementia

- 1 in 14 people over 65 have dementia
- Memory aids help improve people's memory and are important mainly to people with dementia
- They help by engaging a person's long term memory

<http://www.nhs.uk/conditions/dementia/about>



Examples of memory aids:

- journals
 - calendar clock
 - shopping list permanent reminders
 - medication reminder box
 - colour codes
 - smart devices
 - mobile phones
 - electronic devices and apps
- <https://www.alzheimers.org.uk/get-support/staying-independent/memory-aids-and-tools>

RED	YELLOW	GREEN	BLUE
Suitable for: sanitary areas toilets washroom floors high risk areas	Suitable for: washroom surfaces sinks/basins bedroom surfaces lower risk areas	Suitable for: general food handling and preparation areas	Suitable for: general low risk areas: mirrors, glass etc.



Lifeline personal service

Lifeline is an alarm system which offers support to people leaving alone and in care settings. The system is designed to help people when ill or in danger.

Personal alarms such as sensor door alarms are used mostly by elderly people which like to feel safe in their own house

<https://www.telecarechoice.co.uk>



Also they use different devices :

Examples:

- Pendant alarm
- Sensor mats



Communication aids:Hearing and Speaking

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According to World Health Organisation in 2022 over 1,5 billion people globally live with hearing loss.

Some cases of hearing loss could be detected and solved with early interventions for ex:

- Behind the ear hearing aids (BTE)
- In the ear hearing aids (ITE)
- In the canal hearing aids (ITC)
- In the canal hearing aids (CIC)
- Cros/Bicros which are used for hearing loss in just one ear.
- Body worn hearing aids that is a box clipped on your clothes

Different Types of Hearing Aids



In-the-ear (ITE)



In-the-canal (ITC)



Receiver-in-canal (RIC)

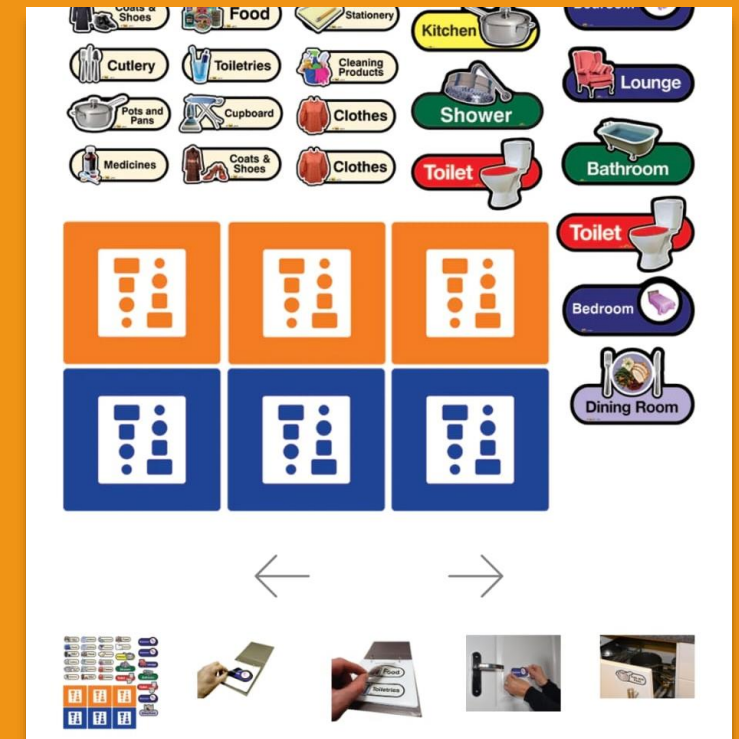


Behind-the-ear (BTE)

Speaking

People with speaking impairment which use different communication aids also known as AAC (augmentative and alternative communication) such as:

- Charts using symbols, pictures, letters and words
- Devices using message voices
- Apps that can be downloaded on phones or tablets
- Also, they can use voice output communication aids (VOCA); the most popular ones being the devices using multiple message communication.(livingmadeeasy.org.uk 2022)



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