

SKILLS FOR THE WORKPLACE- HEALTH AND SOCIAL CARE

**Module: Digital Skills and Research
Methods**

Module Code: BMSW4003

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**Assessment 2- Research skills for
healthcare (Resit)**



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ABSTRACT

Rehabilitation is defined as a necessity for the disabled people are the adjective people in order to achieve the highest level of functional independence reducing or preventing the impairment or addiction that the face for the longer period. This process can be long and maybe extremely expensive. It is also analyzed that the aging phenomena has become a critical issue for the clinical and patient. In addition, the technological solution has maybe participated for the advantage to the health care settings and order to reduce the cost and enhance the number of patients as per caregiver which make the things more appropriate and accessible. Therefore, the usually provide an assistive towards the rehabilitation services for physical, financial, or any barrier which may impact their lives and giving a standard. In addition, the papers are usually present a scenario of the assistive rehabilitation technology for the various recovery method starting from person to complimentary at home activity that may be used full in order to create additional impact.

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TOPIC

“Use of technology in the modern healthcare -Rehabilitation Centres”

INTRODUCTION

Rehabilitation refers to a care that can allow individuals to get back and improve their ability which can help in improving their daily life. This may include mental, physical and cognitive. It can allow to improve the disease or injury which have side effect from the medical treatment. Rehabilitation Technology provide high impact on the functioning of autonomy and improve patients quality life. There are some techniques that can be adopted by the service user to provide care and support and help in rehabilitation. In this research, there is a discussion about the different type of technology which are used in the modern healthcare industry of United Kingdom (Kos and et. al., 2018). There is also discussion about the effective use of technology in the rehabilitation center. It also includes benefits of technology within healthcare settings.

RATIONALE OF RESEARCH

The rationale of the research is usually followed with the various processes and procedures which have a cumulative ability to develop personal and professional development. In addition, the research topic is appropriate regards with the professional development because it is related with the technology is that maybe impact for the future references. Moreover, it is also contributed in the future courses, professional attitude, and attributes regarding the support and care (Ge and et. al., 2018). In addition, it is also well stated that the technology is which may be related with the rehabilitation centres which is used in order to provide support and care to the number of patients show some of the personal development with the understanding of various aspect for the enhancing of knowledge and skills (Vaezipour and et. al., 2019). Moreover, the personal and professional development usually a carry knowledge and skills for the future. Moreover, the most helpful impact of knowledge and skills are usually showing the aspect when it is related with the future concerns where individual is needed services or support from the same parameters, then the development of patient in the appropriate way. Therefore, the personal development is also helpful when taking the contrast of situations that arises within the family, friends, and relative. The knowledge is associated with

the approaches which may be provide impact on the future recommendations (Gupta and et. al., 2020).

RESEARCH AIM

To identify the use of technology in the modern healthcare of UK: A study on Rehabilitation Centres.

RESEARCH OBJECTIVE

- To identify the technologies used within modern healthcare industry of UK.
- To determine the use of technologies in the Rehabilitation Centres.
- To evaluate the benefits of technologies for Rehabilitation Centres in its healthcare setting.

RESEARCH QUESTIONS

- What are the different types of technologies used within modern healthcare industry of UK?
- What are the effective uses of technologies in the Rehabilitation centres?
- What are the benefits of technologies for Rehabilitation centres in its healthcare setting?

RESEARCH METHODOLOGY

Search strategy

The search strategy is usually focus on the data and information collection and selection with the various source which is underline with the help of search strategy. In this, the search strategy is usually focus on the various context which is appropriate and functional for the generation of quality-based information and data which is reviewed within the research process (Kallala, Chaouch, Nasr and Courset, 2021). The major of search strategy is usually helpful in the information which include PubMed, Springer Link, Medicine plus and Science direct. These all are productive search strategies which is useful in order to collect the data and information in such way which is helpful for the development of evidence-based data and information for the research process.

Database used

The database is also showing their aspect which is productive in order to collect the reliable and validated information for the research topic. In addition, the topic is usually focus on the clinical feature which is helped with the context of database to acquire more knowledge and information which directly proportional to the topic. Therefore, the major database is PubMed Central, CINHALL, EMBASE and UpToDate and many more. These are productive in order to gain and show the relevance which is putted into the completion of information gathering and acknowledging with the database (Langan, Subryan, Nwogu and Cavuoto, 2018).

Research method

The research method which is chosen within the research process are secondary process. The secondary process is usually focus on the collection and gathering of data which is based on the books, Journals, article and from the different article. It is scientifically review process which is measurable for the collection of information.

Research choice

The research choice within the research process is mixed which state that the data or the collection is gathered from the various qualitative and quantitative method which help to show the information which is related with the concept, hypothesis and derivation which is acknowledging the morphology and they contain numerical values and other statistical due to the quantitative choice. It is usually secondary data means data collected by someone else which is associated with the survey, observation, experiments and personal interview which is related with the secondary research (Rose, Nam and Chen, 2018).

LITERATURE REVIEW

What are the different types of technologies used within modern healthcare industry of United Kingdom?

There are various type of rehabilitation technology that are highly effective and provide better care and support to the patient over facing difficulty related with their health. Here rehabilitation technology and techniques can be helpful to improve and recover and divisible from injury or illness. This may include virtual reality, Robotics, muscular-skeletal modeling and simulation, motion analysis, transcranial magnetic stimulation, transcranial direct current stimulation.

Robotics include the specialized robotic which can help to improve and regain functions in legs and arm after a stroke (Nyman and et. al., 2022). Motion analysis is capable of capturing video of human motion through using specialized computer software. This is able to analyse the motion in detail. This is the technique which provide healthcare professional are detail picture of the specific movement challenges during providing proper therapy. Virtual reality has been able to recover from injury. It can retain motions within the virtual environment (Afridi, 2021). Muscular skeletal Modelling and stimulations includes the computer stimulation of human body which include pain point, mechanical problem within person in the moment related disability. It can help in assisting physical therapy and improve better health. Transcranial magnetic stimulation includes magnetic impulses through using a skull for stimulating the brain. This can implies people to recover from the moment and brain function after having any stroke. Transcranial direct current stimulation includes mild electrical current which travel through skull and able to stimulate the brain. It can be helpful to recover from a stroke and other conditions (Mohammed and et. al., 2020).

What are the effective uses of technologies in the Rehabilitation Centres?

There is high effectiveness of rehabilitation technology in the rehabilitation Centre. This is highly effective and can influence to use the technology in improving patients help support. It can include different type of technology that can help patient to get over through the disability from getting some external support. Through using the technology, it may include different benefit which should apply on individual to compensate the disability and provide better support to improve your quality of life (Monge and et. al., 2018). This can help to minimize the disabling effects which can be chronic health condition like cancer, cardiovascular disease along with diabetes. This can also help to take care of individual health which can implies about possessing good physical activity and provide better ability to perform the different activities. This can help to improve physical ability through using the rehabilitation technology which are beneficial in delivery of better impact. It can help in cut barrier and provide better opportunity to use the technology to meet their needs of people with different disability.

What are the benefits of technologies for Rehabilitation Centers in its healthcare setting?

Rehabilitation technology has a highly effective and provide different type of benefit to the people with disability (Li and et. al., 2021). It can help as assistive technology to improve the health condition and provide better support during disability. It can also help in compensate the

disability and provide better independence option which can improve in divisible life. It can include the benefit to work and care for themselves and their family. It also provide ability to enjoy music, travel, sports and have potential to influence individual in participating in the community life. Rehabilitation Technology includes high impact on interconnection with the medical devices. This can be highly effective in a reshaping healthcare delivery of services that can help to provide better care and support to the person with disability (Mutch and et. al., 2021). It can also use as the supportive mechanism that can be helpful for health care professional to deliver it to the service user for possessing better health. It can also help in improving their quality of life and provide better instances for living good life.

ANALYSIS AND DISCUSSION

Rehabilitation technology is highly effective and allow patient to improve their health condition through compensating their disability. Use the new technology can improve their quality of life. This can be highly effective and associates with better and improved quality of life. Through using the rehabilitation technology, it can enable healthcare professionals to provide the proper care and support to patient with disability to improve their life. It can also provide opportunity to disable individual which can help to improve better and more effective response towards delivering better health impact to individual (Choi and et. al., 2019).

SECONDARY DATA ANALYSIS

The secondary data analysis refers as the analysis of the existing data which is collected by other. Therefore, the secondary analysis is usually affording researcher in order to provide the opportunity which help to analyse and interpret the research question which is regarding the technology which is used within the rehabilitation centre for the treatment of addictive-based patient. The data is usually configuring from the secondary source which is also known as second handed data which is deliberately collected from the various source such as books, journals, website and many more. The analysis of the secondary data which is based on the chosen topic which is based on the effect and causes that is provided to the context of data and information. The secondary analysis is usually showing the aspect which is related with the concept, effectiveness and impact that play role in the development of research information and data (Michelsen, 2020).

CONCLUSION AND RECOMMENDATION

From the above discussion, it can be concluded that rehabilitation technology is highly effective and can provide a positive impact on the person with a disability. It can also compensate the disability by adopting and use of new technology which can help to provide more support to that disabled person for improving their quality of life.

It is recommended that rehabilitation technology should be used by the patient to improve their quality of life where robotics and virtual reality can be highly infective and can help in the visual to improve their health condition.

It is also recommended to apply the motion analysis which can be helpful technique for healthcare professor to deliver better physical therapy that can help in the specific moment of disable person.

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