

A research study on the presence of internet resources and other applications in rural areas to increase value of medical system

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ABSTRACT:

Introduction: We have notice that in rural areas, less number of resources are available. People are facing lots of issues who want to take medical education. Many other institutes and trainers are providing opportunities to increase the level of medical education in rural areas. Researchers try to introduce various other ways which can help us to reduce the level of distance.

Methodology:

They use different type o methodologies to increase the rate of medical education in rural areas and help to reduce the issues of distance, which students have to cover to get their education. After watching and considering all these issues, researchers start introducing many telepresence programs and internet resources. With the help of these resources, people feel easy and comfortable to get medical education and introduce different type of surgeries and therapies in their areas.

Results:

In this study, researchers held sessions in which they ask different types of questions from the participants. After asking questions, participants who show more positive results got selected for interviews. In these interviews, they also ask questions from them related to medical field and use of the internet. They ask them either they as satisfied with audio and video sessions or not.

Their answers was more satisfactory towards video sessions as compared to audio sessions.

Conclusions:

This study is about the number of resources available in rural areas. We discuss the use of the internet in rural areas and its effects on these people. Participants were showing both positive and negative response, but most of them were showing satisfactory behavior. They are able to enhance their skills and perform multiple tasks during their practicing.

Keywords: telepresence; internet; medical education; participants.

INTRODUCTION:

In this study, we have seen that people who live in rural areas face scarcity of doctors in these areas [1]. They face a number of issues when they feel sick [2]. Due to the poverty of doctors in rural areas, people face hardships while traveling to other areas for their treatment [3]. In these areas, researchers are working to increase the number of medical schools in these areas and show

different methods of treatment and medicines to treat patients [4]. They start practicing on different numbers of medical treatments and methodologies to treat these patients [5]. They get funds from different companies and countries to make hospitals and medical schools in these types of areas to increase the value of medical education [6]. They show some results that about 91 students are working in a large area covering “23,000” km. Due to this boundless area, it is very difficult to provide teaching facilities to them [7]. After considering all these issues, they conclude some results. They cover that extensive distance with the help of the internet and social media [8]. They start giving them classes and sessions on an online basis. In this way, they become able to cover all these areas and give them proper guidelines about medical issues and their treatment. People were suffering from difficulties but they made it easier for them [9]. Now, these students are able to meet all their needs and cover that large distance in seconds through the internet. Students can ask all their questions related to their work [10]. In this way, they will be able to clear all their points and issues related to their study. When there will be a debate among students or when they will ask their questions to their teachers, their problems will get sorted out [11]. We know that this can not be considered as a perfect educational way, but it is very helpful for those who were not able to cover large distances and were not having facilities to educate them [12]. In this study, we make it effective for us to get the medical education through the internet. In this way, professors and highly qualified teachers will give them classes. When people will get aware of the use of the internet to get the education, they will feel more comfortable [13]. They will get an equal chance to educate themselves and their generations through the internet. When people will get knowledge about it, they will start taking part. They will be able to get complete knowledge of medical education [14]. Doctors who want to live in rural areas are getting opportunities to get the proper education. Their timing and duration was set. They use different methodologies to increase their knowledge. They can now perform surgeries and many other serious therapies with the help of telecommunication, from where they will get full knowledge about these surgeries. Doctors will not face any type of difficulty during treatment [15].

METHODOLOGY:

In this study, researchers use different types of telecommunication devices to get connected with their teachers through the internet. Up and downlinks with different numbers of Mbps were measured. They use audio and video devices to communicate with their teachers and get their classes on time. They were able to get deep study about unique methods including in the medical field. Doctors use new and unique methods to treat their patients. In this study, they collect data about this research with three different methods as by asking questions to them. They make a survey and ask questions to them. After asking questions, they held their interviews and also take their observations. They ask questions related to their experience about their learning period through the internet. Approximately, they ask the same type of questions from all these participants. They collect all information related to telecommunication and its effects. After collecting data, they compare their answers and calculate results. After collecting and concluding the results of their answers, they manage interviews. They call them for interviews in which they ask them several questions related to the effects of telecommunication and use of the internet. They make criteria for passing participants. They also record their interview. Researches also measure the range of the internet and its input and output rate. In this study, researchers use the different type of communication apparatus on audio and the video basis. In this way, doctors and learners

will get full help for the treatment of their patients and to fulfill their surgeries. After getting information from their trainers, they were able to use new and different types of therapies on them. Internet and communication services reduce the distance between teachers and students.

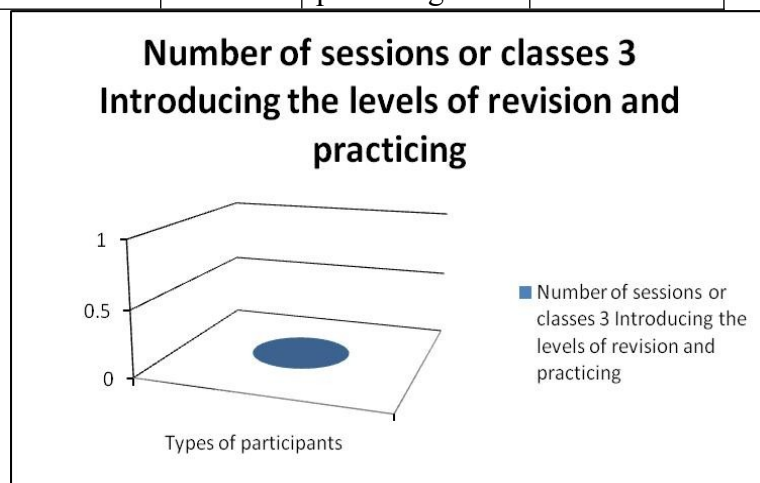
Nobody needs to cover a large distance for their studies.

RESULTS:

Researchers do complete research on this study and make some conclusions. They perform different activities based on education to improve their learning procedures. About 18 activities related to education were included. They show these activities in table number 1. In these activities, they check out their abilities of knowledge and many other skills. These skills were related to educational attitude and performance. They start a session and its timing is between 10-45 minutes. In these sessions, they tell them about the importance of telecommunication and the internet. They divide participants into groups of 4-5 persons in each group. This study took place in 2012. Total of about 59 people took part in this study. Researchers ask different types of questionnaires from them. Questions they asked during sessions were mostly the same. They first collect data related to them as their ages, height, weight, gender etc. After completing all these formalities, they start further procedure. Ages of these participants were between 21-55 years. About 58% of them were female and 42% were male. Their trainers and coaches were all provided in specific amounts as there were no specific trainers for a specific client. They make a group of these participants and allot them their trainers. Medical students were also divided into different categories. Some of them were graduates, others were post graduates and some of them were interested in clinical studies. Their interests were different as per their subjects. Their trainers and coaches divide them on the basis of their interest and subjects.

Points to focus	Sessions	Descriptions	Types of participants
Participants who initiate training	3	Number of methodologies used in the field of telepresence	Trainers
Graduate and post graduate students	8	Factors affecting these types of training sessions	Students
Post graduates	10	Graduates and post graduates. participants	Graduate and post graduates
Skills on the clinical basis	2	Different number of opportunities involved in the process of telepresence	Clinical studies

Tutors and trainers	1	Increasing the value of medical education	Medicinal treatment
Number of sessions or classes	3	Introducing the levels of revision and practicing	Physiology of disease

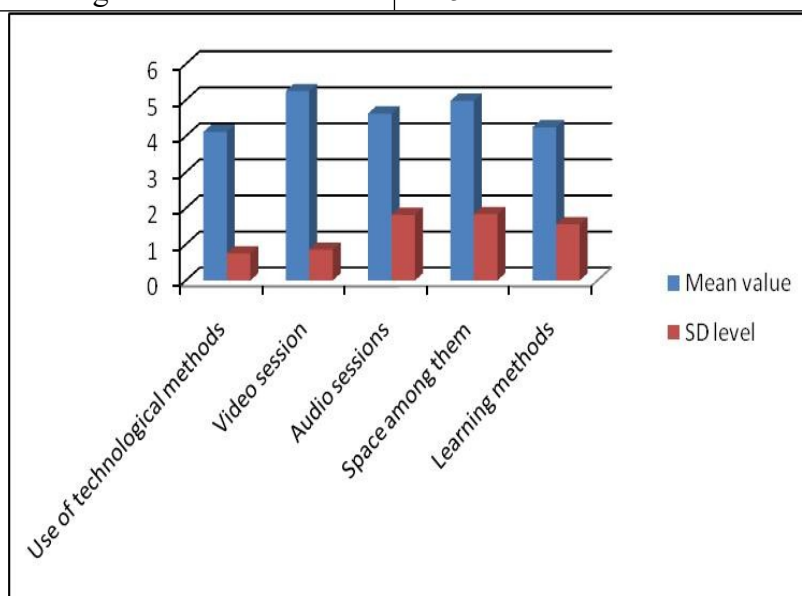


In table number: 2, they show their level of satisfaction with tele communication. They want to show that either they were satisfied with this source of learning or not. As we have already discussed, they teach them with both audio and video resources. Participants were showing more satisfactory behavior towards the video lectures and sessions. They were not interested in taking classes on the basis of physical appearance as compared to video calls and sessions. It was more easy and memorable for them. They were satisfied with visual appearance or video calls other than audio or physical appearance.

After collecting data and giving them sessions, in which they ask different types of questionnaires, they start taking interviews. About 33 participants were involved in interviews. Their trainers take their interviews and ask different types of questions from them related to this study. These interviews were held between 5-10 minutes. In these interviews, they ask from them that either they were satisfied with this type of learning based on audio and video. They collect whole data and record it in audio form. Candidates who pass out the first session were moved to towards the second session, which we called the interview session. Other participants were moved towards their homes. At the end of interviews, trainers also show their behaviors towards them. They tell us that participants show frank behavior with them. The main aim of this study was to improve the level and quality of medical learning. They measure the quality of learning and its impacts on others. The main theme of this study was based on teaching and some learning methods. They want to improve the educational level and its value among rural areas. They improve the quality of learning teaching methods. They also introduce video recording and live sessions to them which help them to improve their learning procedures and values. In this way, they will be able to improve the quality of learning and video sessions. In these interviews and live sessions, people show both positive and negative impacts towards the use of the internet for study. Participants receive all type and methods

of learning and teaching. They also think that these participants were showing their potential for other applications. Telepresence shows its response in learning and teaching programs on the basis of large and small groups. Some of them were showing some hesitation towards this procedure of learning and teaching. On the other hand, telecommunication and telepresence were showing alternative results. People have to cover large areas to get medical education, but now it is easy for them to get the education at their home place after introducing different ways of communication. They are now aware of several methods of teaching and learning programs through tele presence. Another opportunity was also available for them as tele communication helps to get education and introduce new surgeries and therapies to them, which help them to increase their way of learning and treating their patients.

Level of satisfaction	Mean value	SD level
Use of technological methods	4.12	0.75
Video session	5.25	0.85
Audio sessions	4.63	1.82
Space among them	4.98	1.84
Learning methods	4.25	1.56



DISCUSSION:

In this study, we make a discussion on the introduction of telepresence and telecommunication programs with participants [16]. It helps them to create a specific room between two persons who can communicate with each other with long distance. Most of the people were showing satisfied behavior but some of them were unsatisfied. They were showing their positive response towards video sessions as compared to audio because in video, they were able to see their expressions as well as audio [17]. In audio sessions, they were not able to see their expressions of talking and teaching. That's why, they show positive response towards video as compared to audio sessions. These participants got the opportunity to see their teachers and trainers in from of them with the help of cameras. It helps them to make their level of education more effective [18]. They were worried due to long distance from cities and unbalanced resources of learning but telepresence

makes it easy for them [19]. They can get their medical education on the internet now. They are able to ask all their questions to their teachers and get answers in seconds [20]. It helps them to increase the level of learning and medical education [21]. In this way, they will be able to increase the value of medical education in rural areas [22].

CONCLUSIONS:

Activities related to medical education show different aspects of life, including knowledge, behaviors and attitudes towards telecommunication and tele presence. As we have discussed, in rural areas, it was very difficult to send teachers and trainers for medical education due to the long distance, but the internet and other communication resources make it easy for them to get knowledge. After introducing these applications in rural areas, it makes it easy for those people who want to take medical education and increase their knowledge of medicines and surgeries. They give them proper sessions on both audio and video calls. People show more positive results towards video lectures because more senses were involved in video lectures as compared to audio. In video sessions, they were able to see their expressions of teaching also. This telecommunication system helps people to communicate with others more easily and can solve their queries.

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