

EFFECT OF MULTIMEDIA ON MEDICAL FIELD

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Multimedia, which refers to the use of multiple forms of media such as text, audio, video and interactive content, has had significant impact on medical field and educational process, since it aid in enhancing quality for diagnostic process and in delivered educational ideas among medical care workers. New multimedia technologies evolution aided directly in improving the delivered health care to the patient especially in some critical cases that considered in the past as big issues.

In the first readers of this article may be amazed if he know that the medical health worker are full dependent on multimedia in their job especially if you know how many machines that deals with multimedia daily even it text which doctors must write there documentation about their patient. Or photos like CT Scan or MRI photos, MRV which is veins photo with, for example, contrast and that will produce colored image [1-3]. Or voice detection which is necessary for radiology doctors [4, 5], so all multimedia components is strongly involved in Medical Care and it enhances it.

The objective of this paper is to highlight the effect of multimedia in improving patient health care and in the same time enhancing educational process among of health care workers through the patient now can access his electronic medical record and can see their health condition and reduce medical errors.

Due to hand writing especially in medical prescription, increasing quality of Radiology image with all of it type that mentioned above reduce time for retrieving patient file or prevent missing patient file ,this is for patient side.

For health Care Workers it is another beautiful Story, for example doctors can use multimedia tools such as virtual reality (VR) simulations to practice procedures before performing them on patients, which can improve patient safety, the high quality of Radiology image and increasing on process. It lead to give best solution in shortest time for patient case, Doctors now can pinpoint and increase the accuracy of patient diagnosis.

Communication among health worker is improved and it faster such as videoconferencing or online consultation, helping to give advices for patient in distant areas via online videos, and giving emotional and psychosocial support if needed. The most important thing it giving huge database for clinical research and decision support system for countries and it help in reduces expenses.

Multimedia has had a significant impact on the medical field in a number of ways. Here are a few examples:

Education: Multimedia has made it easier for medical professionals to access educational materials and keep up to date with the latest research and best practices. For example, medical students can watch videos of surgeries or other procedures, or use interactive simulations to practice diagnosing and treating patients.

Communication: Multimedia has also improved communication within the medical field. For example, doctors can use videoconferencing to consult with colleagues or remotely diagnose patients. This can be especially useful in rural areas where access to medical care may be limited.

Patient care: Multimedia can also be used to improve patient care. For example, doctors can use multimedia tools to better explain diagnoses and treatment plans to patients, or to provide patients with information about how to manage their conditions.

Clinical research: Multimedia can also be used to support clinical research. For example, researchers can use multimedia tools to analyze large datasets or to visualize complex data sets.

5G technology: it's made huge Forward jump for multimedia via providing to the doctors to apply surgery with high resolution video and Audio with high accuracy and in no latency in internet between too distant area and that will open new ideas for medical field.

Overall, the use of multimedia in the medical field has the potential to improve education, communication, patient care, and clinical research, and it is likely to continue to play a significant role in the field in the future.

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