BIOMEDICAL ENGINEERING PROJECT:TWO PAGE WRITE UP ON FUTURE OF HEALTHCARE.

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1 Introduction

1.1 What is healthcare?

Healthcare is the maintenance or improvement of health via the prevention,diagnosis,treatment,amelioration cure of disease ,illness ,injury,and other physical and mental impairments in people as a result of enhancement.

1.2 Innovations in healthcare

In this era of Science and Technology there's a bundle of innovations made in the healthcare sector :-

1.2.1 Artificial Intelligence

1.2.2 Internet of Medical Things

1.2.3 Telemedicine

1.2.4 Big Data and Analytics

1.2.5 Immersive Technology

1.2.6 3D Printing

1.2.7 Blockchain

1.3 Innovations that will change the future of healthcare

1.3.1 Pocketsize ultrasound devices:-

They cause 50 times less than the machines in hospitals and they can be connected to your phone .It replaces expensive and fragile piezo crystals used in traditional system using a single silicon chip . The chip can emit all three

types of ultrasonic waves required to capture all kinds of ultrasonic depths and frequencies to view different parts of the whole body .

1.3.2 Specialized Outpatient Care Centres

Outpatient Care is made up of medical procedures ,tests ,and services that can be provided to the patient in a setting that doesn't involve an overnight hospital stay.

1.3.3 Precision Medicine for personalized healthcare

Precision medicine is a way healthcare providers can offer and plan specific care for their patients ,based on the patient's genes .it's sometimes called personalized medicine or personalized care.

1.3.4 Predective analytics can support population health management

This method allow providers to determine individuals at risk for developing severe infections or chronic diseases .By identifying those at risk ,it provides medical professionals an opportunity for early intervention and chronic disease prevention.

1.3.5 Telehealth

Telehealth is the distribution of health-related services and information via electronic information and telecommunication technologies .It allows long distance patient and clinician contact .

1.4 Conclusion

Healthcare is a very important aspect as long as we exist .Hence innovations are required in this field so that healthcare technologies are upgraded at par with future.