ASSIGNMENT

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On

EVOLUTION OF MODERN HEALTHCARE

Submitted by: Sonali Kesharwani Roll No.:21111062



NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR

Under the Supervision of: Saurabh Gupta

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1 EVOLUTION OF MODERN HEALTH HEALTHCARE

1.1 Evolution Of Healthcare

Evolution is a process of gradual change that take place over many generations. Necessity and requirement of anything is reason of evolution. Similarly when we need something new for improving healthcare, system, evolution come in existence.

- 1. Emergency of life
- 2.Battle and war
- 3.Disease and cares
- 4. Discoveries and invention
- 5.Innovation and Technology

1.2 Sequence Of Evolution Of Modern Healthcare

1. Rise of healthcare

-Hyppocratus Father of western medicine - 800AD herb used as medicine. Organised medical care for injured soldier. - Bubonic plague killed closed to 50 million people. Industrial Revolution- First step in improving health through meditation. In 1798 First vaccination for smallpox developed In1816 Stethoscope invention In 1849 Alxendar Graham Bell invented the telephone louis Pasteur founded germ theory. In 1895 Wilhelm Corned Rongten accidentally discover X-ray 1900-1940 Era of discoveries 1914 1st World war In1920

Adhesive bandage with an adsorbent center. In 1928 Alxendar fleming accidentally discover penicillin. In1939 First binary digital computer developed 1940-1980 Early modern healthcare (Era of invention and rise of health benefits). 1945 National health program offered by president Truman. 1948 First high level language for computer developed. 1953 Francis crick and James watson suggested the double helix modle of DNA 1954 First successful organ transplant 1969 Apollo spacecraft landed human on moon. 1978 MRI Developed by RayMond V Damadian 2.Rise Of Modern Healthcare (1980-2000)



Important healthcare system and rise of technology

1980-HIV was first clinically observed in United State. WHO eradication of small pox 1983 Minimally invasive and robotics techniques revolutionalize surger. 1984-85 Apple introduce the Macintosh 1990 WWW invented 1996 Dolly the sheep become the first mammal clone form an adult cell.Pluffuzer launcehr lipitor

3.Rise of Digital Healthcare (2000-2015) Era of healthcare consolidation and dizitilization 2000 First draft of human genons announced 2004 Rise of social media. 2006 First ever powered bionic arm invented Wearable tracking devices for monitor health 2008 Smart device used by healthcare

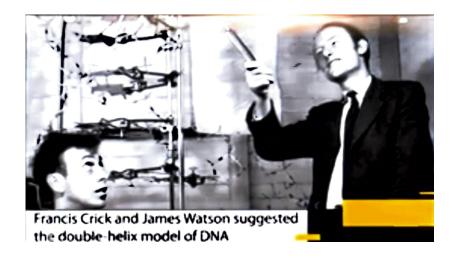
professionals. 2010 Obamacare passed 2011 Top 20 drugs in US 2012(Physician access declining) Healthcare Proffessional used sovial media for proffessional networking. 2013 ICD-10 isa newcode set for reporting medical diagnosis and inpatient procedure. Ebola virus epidermis hits west africa killing more then 16000 people. 2014 One in 11adults diabetic and there are over 2.1billion overweight adults. 2015 -3billion internet over in world.



1.3 Digital Healthcare Equipment- Evolution In Modern Healthcare

1. Augmented reality- AR integrate digital information with the user environment in real time and is becoming more accessible and affordable for medical education and imaging, dentistry and nurse training. AR can't be used to perform accurate and low risk surgeries, but it can also help surgeons save time in case of an emergency surgery. Instein of searching among people or through electronic medical, records, surgeons, can have access to all of that information of their AR screen within seconds.

- 2. Virtual Reality- VR captured theind attention and block same signal from reaching the brain .Like when the patient is in pain, VR distract them by blocking pain signal to reaching the brain and allow patient to rally the neutrotransmitter mechanism to decrease pain. VR program are typically considered to be an effective and safe therapy.Itcis used in drug rehabilitation ,etc
- 3.Robotics- Medical robots supportedinimally invasive procedure, customised and frequent monitoring for patients with chronic disease, intelligent theraupatic and social engagement for alderly patient. In addition, as roles alleviate workloads, nurses and other caregivers can often patients more emptathy and human interaction which can promote long temr well being.
- 4. Artificial Intelligence- AI is healthcare refers to the use of complex algorithm designed to perform certain tasks in an automated fashion. When research, doctor and scientist ingest data into computers the newly built algorithm can review, interpret and even suggest solution to complex medical problem. Application of AI in healthcare are endless.
- 5. Tissue Engineering- It is the construction of biological tissue in vitro as well as the alteration of cell growth and function no implantation of suitable cell isolated for donor tissue and biocompatible scaffold material.
- 6.Portable Diagnostic- Portable diagnosis are very useful for space researcher health .On space we can't go with a bulky machine. We need a portable diagnosis, also like COVID pandemic people suffer problem to go to hospital ,portable diagnosis help them is such type of care . Some wearable



healthcare as se time a special type of app on smartphone which helps people for measuring their daignosis.

7.Digital Tattoo - In digital tattoo the information exist between you and your activity. All records are seen by your doctor or any other healthcare person who ensure you about it. Example If you're diabetic person then it record how much calories you take it record how much calories you take if it high or low than doctor ensure you about it to balance it.

8. Nutrigenomics- Nutirgenomics give a better understanding of toxicity and safely profile of macro and micronutrients, prevention or certain diet associated disease, the enjoyment of otherwise less healthy food by individuals whose health is not likely to be well

9. Chatbots- A chatbots is a computer program that stimulate human conservation through voice commands or text chat or both. Chatbot, short for chatterbot is an AI feature that can be embedded and used through any major messaging application.

1.4 Conclusion

As we know evolution of anything is sometime good or sometimes bad also. But the limitations use of anything can't harm us. As evolution of healthcare is start around 400AD now it's is twenty first century and evolution is skill continue. And no doubt, evolution of healthcare save money life like in pandemic, vaccine, save many life which is also a part of revolution.

This evolution maintain

- 1. Priorties mental health
- 2. Shorten waiting time
- 3. Reduce hospital overcrowding
- 4.Expanded primary care
- 5. Support older people to stay in home and in supported communication.
- 6. Reducd healthcare
- 7. Reform health services delivery.