ASSIGNMENT

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On

SOLUTION PROVIDED BY BIOMEDICAL ENGINEER IN COVID-19

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1 Introduction

The responsibility of biomedical engineering professional include overseeing the research and development design safety and effectiveness of medical devices,selection and procurement.Installation integration with electronic medical records system,daily operations monitoring,managing maintenance and repair, training for safe use and upgrading of medical devices available to health care stakeholder. in these section we studied about problem faced by people during COVID 19. and how biomedical engineer overcome the problem.

2 Equipment And Biomedical Engineer

Let's discuss about some biomedical equipment which helps people to overcome and give support to fight against COVID virus.

2.1 Contactless COVID Testing

COVID Testing is needed on a large scale to test as many people as possible,but manaual COVID test booth pose a large scale .Smart IOT COVID test booth automator for paperless registration and online simple linking. As it's a contact less COVID Testing so it helps to prohibited or spreading a virus due to contact.

2.2 COVID Disinfectant Box

As complete sanatization is essential to reduce the chance of injection.As we know liquid based sanatized is can't be used on electronic or paper we touch which cause spreading of virus among people so for solving these problem our biomedical engineering can be make a sanatized which contains no wateror any chemical which damage the electronic.

Yes I am telling about DIY Arduino box uses UV to kill viruses without water or chemical.It can also be used to disinfectant fruit, vegetable, etc with elements and paper.It will be automatic shutoff because of time setting .

2.3 Virtual Doctor Robot

As during COVID people need doctor at every place every time but it can't be possible to available at everytime. Also online video call limit the doctor capacity to a stationary laptop or mobile screen.So for solving these problem our biomedical engineer introduce a virtual doctor robot, which move around and make contact at remote hospital.

2.4 Nano Silver Sanatization Silver

As for stopping spreading of a virus people have to be disinfectant but conventional tunnel is use a lot of water and it's chemical may be harmful for skin .So for thinking about this problem,out biomedical engineer,gave us a new sanatized known as nano Silver which effectively kill viruses without

harming skin.It generate mist instead of spraying water that consumes much less water than conventional tunnels as we used .

2.5 Patient Health Monitor During Quarantine

During COVID 19 it is necessity to monitoring the health of a COVID infected person . But due to invasive number of COVID case it is impossible to keep a track on every patient health condition. Also contact of doctor with COVID affected person ,it may infected to our doctor for monitoring purpose.So, Biomedical Engineer thinking about doctor and patient health,they introduced, remote patient health monitoring that tracks patient vital remotely.

3 Conclusion

By these sections we conclud that how biomedical engineer helps in COVID 19 . As also we need help of biomedical engineer in future. We have tired to access the impact of biomedical engineering in trackling the COVID 19.Together the engineering and medical field have workedto address area of critical need including the production and delivery of personal protective equipment, ventilator as well as creation of viable vaccine.The fight against COVID 19 had helped highlights the works and contribution of so many proffessional in bioengineering field who are working continuously to help our health services cope.