



## High Technologies in Global Pandemic SARS II Covid-19 and in the Future

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Technology is facing SARS II Covid 19 to prevent and treat SARS II Covid-19 in global pandemic. The most useful product developed in short time up today are vaccines thanks to genetic manipulation. Many countries are building new vaccines against coronavirus to prevent infections and reduce high mortality on humans in short time as never seen. Telemedicine, robotics, and virtual reality technologies are being used every day to reduce and improve social distance, isolation, lockdown, fear, as aftermaths also. Telemedicine is being used with mobile or smartphones as one of the most important tools to make fast diagnosis sending texts as brief clinical history, medical images as CT scanners, X Rays, MRI and other medical data to be shared with specialist.

Robotics play an important role also and have been developed with specifically tasks to reduce human interaction and improve man-machine relationship and are being used in many places where people met often as restaurants, stores, entertainment places, fast food services, etc. Humanoid robots are better accepted when they look more like humans working with and for humans. Robots provide food for students in college, high schools, others help elderly in nursing homes. Virtual reality, augmented reality, mixed reality are technologies that permit interact in immersive virtual worlds for social interactions and reduce isolation. VR also permit us navigate in virtual shops; other applications point out the limits of social distancing with virtual reality on the floors of commercial store entrances. These Virtual applications reduce virus spread. These technologies have existed but have been adapted and improved to demonstrate and be useful in this pandemic. It is possible that in the near future, telepresence, Artificial

Intelligence and other technologies could find new applications in this pandemic as have them demonstrated in Mars unmanned this February 2021, where three countries reached the red planet with automation, telepresence, virtual Reality and Artificial Intelligence technologies. In the next frontier, manned missions will need medical technologies similar we need in this pandemic right now because astronauts live in similar and hardest conditions as this pandemic but on space, because they travel under deep isolation, long periods of lockdown, high risk to death, scare, anxiety, fear, slow communication with earth. Phycological and psychiatry disorders, biological and physical changes on space impact in the astronauts and cosmonaut's healthcare. Humankind lives on earth similar conditions in this global pandemic as astronauts on deeper space, International Space Station, lunar missions, mars missions. A Virus is the cause of this pandemic and its treatment is in charge of genetic manipulation, but other technologies as virtual reality robotics, telemedicine and others reduce everything that causes it around. Spatial medicine experience and its technology we need, and we are using in this pandemic. Genetic manipulation will be needed in the future for Interplanetary colonization for human adaptation in different worlds conditions to survive as solar and cosmic radiation, microgravity, low atmospheric pressure etc. We are living a new era in Medicine, our social and hard lives are changing, but we are ready to face this global risk because science and technology are our best hope. However, science has not yet convinced every one of its benefits. There are communities that don't accept the benefits of confinement, or masks protection, even many people reject vaccines application, when we are so close colonize the red planet (Mars). Culture and policy are fundamental for human-

kind progress. Future technologies as Brain Computer Interphase, Genetic manipulation and Cyborgs are promising technologies to improve human biology and become us a strong specie against diverse diseases in the future.

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