

# Innovations in Healthcare during COVID-19



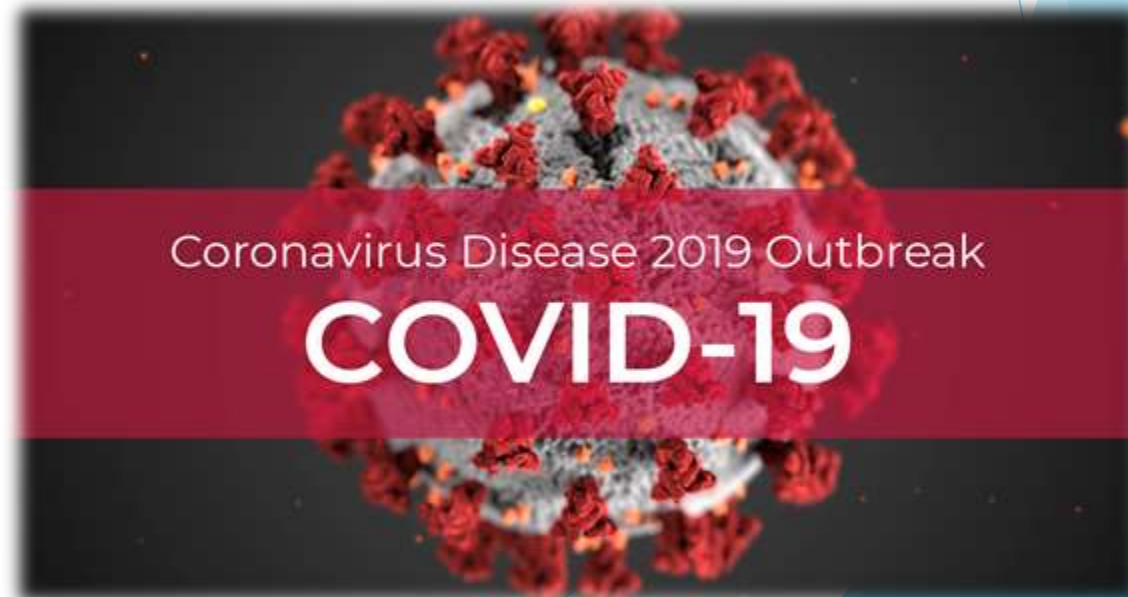
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# Definition of COVID-19

- ▶ **Coronaviruses (CoV) are a large family of viruses that cause illnesses ranging from a mild cold to more severe illnesses, such as respiratory Syndrome.**

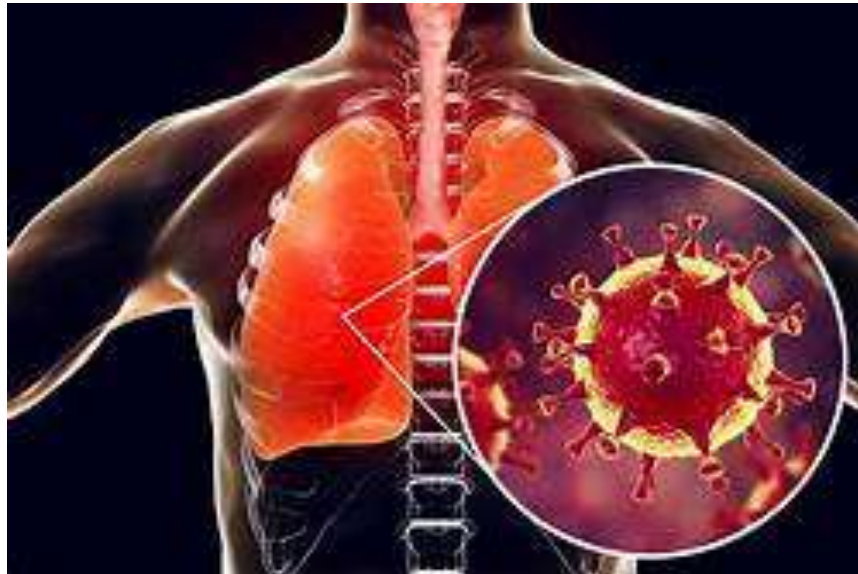
# Definition of COVID-19

- ▶ The anti-corona virus is currently using methods known long ago in medical circles. Maintaining personal hygiene, repeatedly washing hands, wearing protective masks and gloves, and even using a plasma of cured patients for the treatment of sick are measures and ways of prevention and treatment known from 100 years ago. However, these measures are insufficient.



# Innovative projects

- ▶ For the new disease we need innovative treatment therefore I want to present you some of the innovative projects developed in the Republic of Bulgaria and in Israel.
- ▶ Bulgaria:
- ▶ One of the first Bulgarian innovations is the work of "Mikar 21" Company and it has been working on it for 4 years. It is a minimolecule for the treatment of Coronavirus.



# Innovative projects in Bulgaria

- ▶ **The second Bulgarian innovation is done already. It is activated charcoal from apricot pits, which can be put in masks for protection. Based on data from the Bulgarian Academy of Sciences, Charcoal has a very good absorbent effect as regards fungi, germs and viruses.**



# Innovative projects in Israel

- ▶ Once the Coronavirus began to spread around the world, Israel innovators also started developments to reduce its effects and spread. One of them is the antiviral soap „Soapy“, which through a dispenser and its special plant ingredient, which is also produced in Israel, has proven to kill even more than COVID-19 viruses
- ▶ Antimicrobial tissues developed in Israel can be used for the manufacture of face masks, which potentially kill, and not only block, coronavirus.



Soapy Care's smart sink.



Employees of the medical center, preparing to accept for quarantine their compatriots arriving from abroad, 20 February 2020.

# Innovative projects in Israel

- ▶ Israel scientists are developing a diagnostic kit that allegedly will be able to detect a Coronavirus in a sample of saliva in less than half an hour. According to innovators, the test will be compatible with the current hospital method for diagnosing the RT-PCR Coronavirus, which usually takes about eight hours.



Employees of MIGAL Institute

# Innovative projects in Israel

- ▶ **Scientists have quickly begun to reformulate a vaccine that has already developed in the last four years against Coronavirus in poultry.**
- ▶ **To „hack” the Coronavirus: Israel scientists staged a technological event, a „Coronavirus hackathon“, in which the participants offered innovative solutions ranging from vaccines to therapeutic tools and remote sensing technologies.**





# #ResponsibleTogether

- ▶ Human history is fraught with evidence of epidemics, whose causative agents are constantly mutated and are being altered. By studying new forms of disease, medical science has found more and more innovative methods and vaccines and combat them.

