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Journal of Biomedical Research & Environmental Sciences main aim is to enhance the importance of science and technology to the scientific community and also to provide an equal opportunity to seek and share ideas to all our researchers and scientists without any barriers to develop their career and helping in their development of discovering the world.

SHORT COMMUNICATION

The Need for an Air Sterilization Unit Before Releasing Bio-Hazardous Agents as COVID-19 Virioli in Environment

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ABSTRACT

Transmission of many viruses occurs by direct transmission during a close contact between two hosts, or by an indirect transmission through the environment, where biotic and abiotic factors may act independently or connected to assure survival of viruses released in the environment, and further direct or intermediary carrier (rats, cats, dogs, squirrels, dears, etc.) transmission back to humans. It is supposed that virioli as SARS-CoV-2 may have exceptional survival times in cold, clean, dark environments traveling short to very long distances, especially in the air or in water, "waiting" for a host to multiply.

INTRODUCTION

Environment acts as an intermediary storage in virus transmission assuring the persistence of corona, poliovirus, influenza, Ebola virus in airborne mode depending on droplet sizes, or in sewage water assuring a good persistence in the environment contributed to burst renaissance of viroid transmission, manifested by infection rate bursts, in places where the virus was previously considered extinct [1].

Studying how a virus is released in environment by human carriers and their facilities as houses, workshops and hospitals, even negative pressure rooms and finding means to sterilize their gas and liquid exhausts on spot is believed to deliver more than 90% reduction in the environment backed transmission cycle.

HOLISTIC PROTECTION EQUIPMENT

In the actual race for a vaccine, that is "big business", well promoted by rich international corporations, the governments, medical organizations "forgot", the hierarchy of basic pandemic controls, that allow the primary and the most efficient measures in pandemic suppression, having as result an exceptional loss of lives and a very high infection rate, that allow the virus to mutate, and escape the present vaccine defense assuring the livelihood of the virus and continuation of vaccine business for years to come, year by year producing a new variant booster to put in dummies' arms and lining "big pharma" companies pockets. This is not to say that vaccines are bad, but being so ignorant and doing vaccines for the sake of vaccination great business, and omitting everything in between it's a planetary aberration.

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Figure 1 Complex synergistic protection for environment and individual [2].

Intentionally or due to incompetence, the state health organizations and politicians delivered ambiguous, incoherent, omissions reach messages to populations, exacerbating their mistrust and confusion. The actual result of this world –wide misinformation was deaths, and causalities.

The application of hierarchy of pandemic controls, known since 1950s and earlier, would result in much fewer causalities by 1000 times or more, insulation of fewer variants of virus, and prevention of environment bio-contamination, as it to act as an infection buffer, followed by vaccination.

A brief over the methods to stop pandemic is presented in figure 1 where the technological protection is classified in 4 categories A-D as function of their direct protective action.

As one can see, all the systems include a sterilizer unit before air release in environment or reuse and this is providing both the desired human momentary protection and also long term protection by suppressing the environment chain of transmission [2]. The other part of virioli released from contaminated areas, come from liquids released by contaminated areas in the sewage, that flows to communal water reprocessing plants, and during their passage through sewer canals have plenty opportunities of infecting rodents, snakes, that are a part of food cycle for other animals that get infected too [3].

Figure 1 shows that the 4 basic protection methods may be combined assuring high level of protection factor, making safe not to follow the social distancing, recommendation that in reality becomes meaningless in closed environments,

because virioli transmission is airborne and air currents matter more than separation distance, and makes also useless the administrative measure of closing the economy in order to reduce the exposure opportunities. The basic rules for this protection are to use I “A” UVc and bio-chemical sterilization in HVAC systems, together with directed down currents in closed spaces in order to eliminate the airborne virioli, delivering a default building protection at at least -50 dB. In “B”, each individual is wearing a 2 way light, transparent mask, where his exhalations, healthy or not pass through a sterilization canister before being released near the ground or floor, and “C” stresses this fact as an individual protection. “D” is a customized exhalation collector and sterilizer and stresses the importance of clean air release in environment. That is mainly because dealing with 100 nm size virioli and even smaller bio-agents filters used in masks are not efficient in collecting and destroying them, but the synergistic action of the system is able to stop any pandemic in 3 weeks of coherently used by a smart trustful population, and terminate the pandemic in less than 6 weeks without any other medical intervention. Medical and other technology intervention as cellphone GPS exposure tracking, vaccination and medical and physiological prevention are more then welcomed.

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