

Busting Myths about Sars-Cov-2 Viral Pandemic to Non-Medical Personnel

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January 9th, 2020, the Chinese Center for Disease Control and Prevention (CDC) formally confirmed to the Wall Street Journal that a novel coronavirus (CoVs) previously unknown to science has been reported to be responsible for an outbreak of respiratory illnesses. This emerging public health concern at the time will later be responsible for the first coronavirus pandemic. Severe acute respiratory syndrome coronavirus2 (SARS-CoV-2) that causes Coronavirus disease 2019 (COVID-19) is responsible for the current pandemic which is affecting lives in various different ways. The virus was first isolated in patients seen in Hubei province, Wuhan, China who was found to have pneumonia. The cluster of pneumonia cases were seen in patients who were suspected to have links to a seafood market leading to its closure and decontamination by the Chinese officials. The World Health Organization (WHO) officially declared the COVID-19 epidemic as a public health emergency of international concern (PHEIC) on January 30th and passengers with travel links to Wuhan started being subjected to screening. A group of Chinese scientists on the 7th of January 2020 rapidly isolated the SARS-CoV-2 a β -coronavirus from a patient within a short time frame and subsequently genome sequencing was done for the global scientific community to join in understanding the science behind the new enemy of the world.

This devastating pandemic has called for an urgent and highly professional containment measures to limit physical, mental and socio-economic problems. The expertise ranges from emergency response that includes, case detection, quarantine and isolation to the need for a more extensive evaluation of diagnostic capacities and preparedness, in anticipation of any disease epidemic. From the experience of the 2014 Ebola epidemic, countries affected especially in Guinea, there was paucity of essential trained health professionals, effective diagnostic equipment and supplies and the capacities of the staff that included general laboratory expertise of sample handling and processing. Due to these factors there was an exponential increase in the number of cases.

Despite the previous outbreaks and the fatal outcomes associated with them evidence gathered from the media has it that people around the world are seemingly not taking this one with the SARS-CoV-2 gravely. Thousands of people have lost their lives to this enemy already and more lives are claimed daily due to complications caused by the disease. Economies and different sectors which are essential for basic living are also impacted hugely. Therefore, it is crucial to break the medical

information to non-medical personnel for them to make sense of the enemy so as to take adequate measures to prevent further damages to lives. While some are knowledgeable, yet a good number of people are either ill-educated or in denial of the existence of this outbreak ravaging countries and making economies to possibly fall into recession in the near future, Suffice it to say the need to shed more light on the fundamentals of this disease and to dispel the many conspiracy theories associated with the pandemic to the non-medical personnel will go a long way in saving many precious lives and also have a minor impact on the socio-economic activities of the world.

Once this review reaches the table of many, the brief history behind COVID-19 pandemic caused by SARS-CoV-2, the science of SARS-CoV-2, the taxonomy of SARS-CoV-2 and COVID-19, a brief on the patho-physiology of SARS-CoV-2, the genetic makeup of SARS-CoV-2, people most vulnerable to SARS-CoV-2, antibodies against COVID-19, Mother to baby transmission, conspiracy theories regarding whether this virus is weaponized, mutations occurring with SARS-CoV-2 a lot of doubts will be cleared therefore leading to better control measures for the general public. To win this battle it is the responsibility of all and sundry to contribute their quota in different aspects so that we will emerge victorious by defeating the enemy out of the many ways to response to calamities like this pandemic, it is vital for everyone to be at similar levels regarding the right information to get the right message sharing of authentic information is key to providing communities with a better understanding. With the right message and engagement people will be keener to take precautions and measures to keep themselves, their families and communities safe.

With experience from SARS and MERS epidemics, the asymptomatic and pre-symptomatic transmission and the chances of gene viral mutations if effective vaccines are not developed to win the battle; we are likely to face this outbreak again and perhaps in a different form or strain. Those receiving antiviral drugs should establish a complete elimination of the viral particles in the body. Failure for complete eradication will promote drug resistance that will lead to drawing back therapeutic interventions back to the basics.

The global citizens must be reminded that in as much as we have suffered losses, pain and unending anxieties, one fundamental thing that should always be remembered is that, an outbreak of disease just like floods, storms and earthquakes

as well are natural disasters. In essence, there should be no stigmatization or discrimination to come clean and plain at the right time for global scientific interventions. Both the medical institutions and the Governments should be honest and transparent so that we can win this war with the novel corona virus by providing the right direction. WHO 2020 continues to advice on the importance of solidarity when it comes to fighting a common enemy and in arrears containing any outbreaks, epidemics or pandemics, discipline is key as to expert's guidelines.

Everyone is affected either directly or indirectly even if you one is not infected, the outbreak halted the global functions and everyone should strive to ensure that bad memories are never repeated. Essentially, we need to draw our resolution and work towards any similar enemy to the human race. It is a collective responsibility to fight against this virus in order to stop further spreading by providing the right information to the public. If we do not come together to fight to win the battle if we are lucky to survive it we might be witnessing many countries with long-lasting sequels.