

COVID19 IN THE AIR.

We need to ignore hyped fear and fluff and look closer at "viral load". Generally, and similar to other contagious viruses, viral load is an acquired event. Apart from getting gobbled smacked directly into your mouth or licking a toilet, you need to **inhale** virus laden particles in a sufficient "dose of accumulation" for the virus to get a foothold. That is why the CDC sets close distancing duration at 10 minutes when within 6 feet. Interestingly, the 10 minute duration limit is to **constant** exposure without a mask. That's right. Two mask-less joggers passing within 6 feet, have no concern of infection from the other. Remember, talking about mask use without considering distance and duration, is just as stupid as arguing if "light in the night" was a UFO. More on that later.

The ball to watch is the "airborne" and viral load aspect, **together**. Avoiding the dose accumulation or viral load is the key. Said simply, inhaling the exhaled breath of an infected person does not do it. Repeated inhaling in close proximity, for several minutes, causes accumulation which can create a sufficient viral load to infect,

A word on masks. Unless you are wearing a **properly fitted** N95 clinical quality mask, you have little protection other than "slowing down" the dose accumulation. Non clinical "personal" masks only stop particles twice the size of the COVID19 virus or its aerosol transporter, let alone the gaps created by not wearing a properly fitting mask. Doctors in surgery wear masks to prevent bacteria spread, not viruses. The virus invades your body by exposed orifices; the eyes, nose, mouth and to a lesser degree, the ears. So a mask addresses only two of the four. Plus, never be fooled; the virus does not travel in a straight line.

Now to the relationship of proximity and concentration which together can create an accumulation of viral load to infection. As the distance of the exhaled breath traverses away from the infected person, the viral load of that breath dissipates. In part evaporating, in part sinking to the ground and in part by diluting its virus load by mixing with un-infected or "fresh" air. The evaporation and sinking just makes common sense why social distance of 6 feet works, especially when diluted with fresh air.

COVID19 IN THE AIR.

Simply breathing the exhaled air of an infected person that has travelled at least 6 feet and mixed with fresh air, does not contain sufficient viral load to infect a healthy person. That makes open or outside environment safe, safe because of the natural mix and dilution with fresh air.

Underlying conditions -- my head is going to explode. Many have underlying condition, but many are treated to perfection. The author is a perfect example. He has high cholesterol and elevated blood pressure and takes medication for both. As a result, his blood pressure and blood work is perfect. In fact, no one other than he and his doctor know about his underlying condition because both conditions no longer exists. Dah? Now make no mistake. There are underlying conditions that cannot be eliminated. They can only be controlled or mitigated, like diabetes heart diseases, cancer, blood disorders and other conditions that can compromise your immune systems. Also, as we age (60+) the body immune response of white cells and T cells, which fight infections, begin to diminish naturally.

Those types of underlying conditions and natural aging give COVID19 a distinct advantage over the body's ability to fight off the infection. By design a vaccine assists the body's immune system to produce antibodies and T cells (T-lymphocytes) to inhibit the virus load before it reaches a level of infection (breed and multiply within the body). Equally, once infected a vaccine has no value. Only therapeutic drugs can help the body once infected.

So, let's look at the third aspect that causes dissipation of the viral load. The mixing with un-infected or fresh air that occurs naturally outside, like playgrounds, parks, walkways, waterways, open air sports areas just to give a few examples. Current commercial airplanes that filter and replace their cabin air every 6 minutes. Now let's look at closed environments like hospitals, malls, cars, buses and houses. The first two provide natural social distancing and the last three, you control the social distancing. A

COVID19 IN THE AIR.

note on “surface spread”. Much concern of surface transfer has been debunked or at least minimized in the virus ability to infect. Sunlight kills.

It is now Christmas and the 10th month of understanding this virus. The warp-speed vaccine development challenge of President Trump has borne fruit, created a wealth of fact based information and clarified how we should be reacting.

Remember the mantra way back in April/May? You get infected, you die.

Regretfully, that false belief continues in weak minded people and our elected officials.

Here are the facts

1. 98% of the people who become infected either don't know it or never even see a doctor.
2. 89% of those hospitalized are over 65 and have underlying condition,
3. Our medical response has drastically improved. Hospital COVID19 deaths are now below 2%, lower than last year's flu.
4. The 0.04% probability of dying from COVID19 is now lower than 0.1% from rotator cuff or slipped disk repair surgery.
5. Since March of this year, the number of COVID19 deaths under 18 years old is 153! Yup that number is correct 153 as of November 1, 2020. In that same time opioid deaths for 2020 are being projected over one million for under 18.
6. When the vaccination works it means you can't get COVID19
7. If you can't get COVID19, why care if another person is not wearing a mask? If you can't get COVID19, why care if another person is not practicing social distancing? If you can't get COVID19, why care if another person has not been vaccinated?
8. You can only be a spreader if you have COVID19. If you don't have COVID19 you can't spread it. Simple. Get on with your life.

COVID19 IN THE AIR.

So why are our schools closed? Why can't we associate outside? Why can we travel daily in busses and subways, but not after 9:00 pm? Why can we drink in bars only up to 10 pm?

Is it time to stop being played as a useful idiot? Is it time to stop the fear mongering? Is it time to show the way to those who have failed to lead?