

Corona Virus 2020 and Beyond

Corona virus is visiting us again. This is the seventh time it has presented itself as a threat to humankind. There was SARS in 2003 in China and MERS in Saudi Arabia in 2012 . Both of these took their toll...but ran their course. Here we are again so I want to share some of what I am understanding with respect to what this virus signifies and means for all us. As a Yale trained physician in primary care for over thirty years, with a back round in botanical medicine, homeopathy, physics and metaphysics, I thought it important to bring another set of eyes to this problem.

What I'm writing now is to complement presentations that I did on Pacifica radio KPFK 90.7 featuring interviews with Dr Paul Herscu, renown homeopathic physician with a Masters in Public Health, who has actively studied and written about epidemics and pandemics for the last thirty years; and my other guest Nathalie Thandiwe, another

MPH and also a herbalist, who cohosted a second program where we discussed in more detail, the virus, its make up, and ways that we can better protect ourselves. I was also assisted by Acharan Narula a PH.D organic chemist who is known as a Systems Biologist with a biochemical understanding of plant medicines and interaction with the body.

From the standpoint of epidemiology and predicting the outcome of these epidemics Dr Herscu has been spot on for decades. So when he writes that “the case fatality number will settle around .2% to .5% “ for the present crisis, while still associated with significant loss of life, this is much much less than the figures we have heard through some media outlets. And he is to be believed. I have provided a link below which will take you to Dr Herscu’s newsletter for more in depth analysis of how to follow an epidemic in a predictive fashion and of course you can go to KPFK’s archives to replay my interview with Dr Herscu in its entirety.

<https://paulherscuepidemics.blogspot.com/2020/01/highlights-of-writing-on-epidemics-by.html>

Given that the virus is out and about around the world we can assume that it's here to stay with us for a while and will present itself at different times, particularly during the flu season.

The real issue is how to recognize and protect individuals who are susceptible to developing serious illness and dying from contracting this virus. The elderly, those over sixty, and those with diabetes, heart disease, and other chronic illness are at risk. Of course any of you who has a history of recurrent bronchitis, asthma, COPD, and/or has abused your lungs then you can add yourself to the at risk list. Dr Herscu prognosticates that the virus in this virulent form will mimic our seasonal flu patterns for years to come thus pointing to the need for other measures to be taken to protect at risk populations and the caregivers who are in contact with them.

One may carry the virus five to six days before becoming symptomatic and even be infective days after symptoms have cleared. Dr Herscu recommends the R95 mask as a real deterrent along with all the other hygienic measures that one would take with the flu ie. hand washing 20 to 30 secs with soap and water, isolating, and not traveling. The first video in my references covers viral spread very nicely in less than five minutes. As for the masks most people are getting N95 breathers with R95 offering the extra filtration of oil based particulates. Both have a 95% efficiency. Dr Herscu also stressed how important copper and copper surfaces are as viruses and bacteria are neutralized by contact with it. Masks with copper are readily available.

Where this discussion becomes interesting for me is looking at what can be done to prevent serious illness in general and for those that have historically been shown to be susceptible to the flu. For this I want to reference material that appears in the journal articles that have been referenced below and what I

have learned through my association with Dr Narula. If we understand viruses and how they work then we can better investigate and avail ourselves of therapies that lie outside of waiting for a high priced pharmaceutical or vaccine or to be told that we must be vaccinated against this flu

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Viruses are programmed data streams that present as genetic material in the form of RNA and single and double stranded DNA. They are not able to express themselves ie. make the proteins that characterize their function unless they can hijack the genetic programming of a cell. They are however aggressive interlopers or “sleepers” that can be awakened by some trigger. Think of a computer virus or unwanted thought you can’t shake. They have no power unless they take over your cellular operating systems. Hit the wrong key or press the wrong “emotional “ button and there is activation. Viruses are like thought forms in that they have no real ability to carry anything out unless they are able to take up a home in you. Its interesting that from

the human biologic perspectives viruses are not considered to be alive because they don't reproduce or have any actual metabolism of their own. I would say that this is a very narrow understanding of what constitutes Life. These genetic elementals want to take over and know enough to dig into your cell and trigger a molecular cascade that leads to your cellular operating systems coming under viral control.

Viruses inject themselves directly into the cell or attach to a cell receptor on the outside membrane. I have shared a number of more technical articles below that speak to this for those of you who are inclined. These "pattern recognition receptors" have various names; (toll)tlr, (nucleotide) nlr (rig)rlr, etc...but what is important is that when they are activated this leads to stimulation of an important messenger or transcription molecule called Nf kappa B. This molecule is cleaved in such a way that it then attaches and takes over the genes of the cell nucleus, inserting its own genetic material, leading

to the production of proteins needed by the virus as well as mobilizing various pro inflammatory proteins or cytokines. It's a coup.

The stimulation of these extracellular and intracellular receptors by the virus also leads to the production of Type 1 Interferon which is involved with making proteins that will block the virus' ability to manufacture its proteins. The problem in individuals that are susceptible to going into acute respiratory distress is that the pro inflammatory stimulation overwhelms the interferon's ability to block viral protein replication. The more inflammation that takes place with the recruitment of inflammatory immune agents the more destructive for the tissue, organ, and ultimately its host. This is what happens in adult respiratory distress syndrome and it can happen very quickly.

Steroids, like prednisone, are brought into play to stop this inflammatory process or what has been called a cytokine storm. However there are

receptors for this class of drugs throughout the body and invariably it creates unwanted side effects. At present there is a good understanding of the subcellular proteins and receptors that are involved in promoting this inflammatory process. While pharmaceutical companies are seeking to develop drugs that target these receptors plant medicines and other bio energetic therapies can be employed. Its really a question of balance as inflammation is a necessary step in moving to a healing resolution but in chronic inflammation that is associated with chronic disease, a perpetual loop of unchecked inflammation is in play and with an acute flu like process the cytokine storm leads to sepsis and a total breakdown of the body and death.

In the same way that big pharma is producing drugs that will target this viral incursion, there are botanicals, well described In the medical literature, which can block or modulate the inflammatory cascade at the cellular level so that it does not get out of control. These plant medicines may work at

the level of receptors targeted by the virus, may block the activation of NF kappa B directly, or promote the interferon proteins that are involved with blocking viral protein production. I have listed a number of technical studies siting the role that supplements have in combatting this viral takeover. Within the medical literature the pathophysiology of viral infections has been detailed down to the specific receptors and chemical moieties like the protein coding gene MYD88.

The second educational video that I site below speaks to this as well as the more technical articles that detail how various therapeutic botanical agents target cellular mechanisms which prevent the virus from taking over the cellular machinery. The MYD88 protein mentioned above, when blocked by a plant agent like oxymatrine, really shuts down the inflammatory cascade. Botanicals such as genistein in soy, resveratrol and the steroidal saponins that naturally occur in wild yam are useful agents to block this protein. Anti viral activity can be

stimulated by various mushroom formulas and the androphaphis complex, baicalin (scutalleria) and berberine. Vitamin C and E are weaker anti oxidants and are generally not strong enough to block this inflammatory cascade. Botanicals like curcumin are more designed for the gut unless they have been modified to be lipophilic (fat soluble) and can cross the cell membrane.

Ultimately what leads to the death of an individual are when the forces that restore and regenerate the energy matter field that constitutes a human being are overwhelmed by those that are destructive in nature. Too much NF kappa B stimulation with viral promoting activity and not enough interferon to block viral replication is a problem. While we can use plant medicines to help maintain a proper balance its also necessary to move beyond the molecular level to that actual bio field that houses the Mind of an individual, which is to say the sum total of the thoughts, feelings, emotions, and habits that are a much a part of an individual as their

biochemistry and physical structure. When everything is working together we will be much more resilient. The more energetically present you can be with a clear mind and light heart the easier it is for you to create the vitality and chemical moieties that will enhance your innate immunity.

In the world of quantum physics where the atom is understood as a non physical reality its more appropriate to understand the human anatomy and make up with more than a five sense consciousness lens. The civilizations that developed acupuncture and tracked the meridians of the body had a Consciousness expanded beyond the five senses. The Traditional African or Native American healer used their other than five sense Consciousness to understand an address underlying causes of disease through ritual and altered states of Consciousness.

In the West there are numerous technological devices that purport to interface with, measure, and modulate the human bio field. In 1980 I wrote in

my thesis addressing physics and its backdrop to modern medicine and acupuncture. I speculated that there would appear technologies capable of diagnosing and treating at the level of the body's energetic field. Such systems are available now. The NES health technology is one such system that I use but there are many others that people are working with. More research needs to go into these vibrational diagnostic and healing systems. For some individuals their application will make all the difference in the world.

We must also remember that we live on a magnet and one only need to review any of the hundreds of studies that speak to the impact of the earth's electromagnetic field on human life, not to mention the energetic fields of all the forms of life that are a part of this planet, to understand that we are interdependent and interconnected on many levels. Quantum physics demonstrates that our attention is enough to affect the sub molecular world and our experiences should inform us that the same is also

true at our five sense molecular level when we keep our intention clear and present.

The actual quality of our thoughts and the persona that emerges has a lot to do with the quality of our life. And while it seems like common sense to think that older and compromised individuals would be more susceptible to the virus what about individuals that are stressed by the quality of thoughts that they hold onto in their field i.e fear, worry, anger, sadness, humiliation and shame, etc. We know that the more one resonates with feelings of joy, peace, love, gratitude, and appreciation the better the functioning of our organism as a whole. Indeed radiating the energy of Love and Compassion can dissipate and dissolve so many unwanted thoughts and feelings not just for oneself but for those around us. How might this affect our susceptibility to disease and health outcomes?

From clinical practice I have realized that physical pathology is very often associated or I should say

runs in parallel, or as a harmonic, of other levels of energy matter imbalance, whether it's a thought, feeling, sensation, emotion or reaction to a difficult human experience. In homeopathy we attempt to see how the vital force of an individual expresses itself through symptoms that are physical and non physical and we treat the pattern of imbalance with a homeopathic remedy that has been shown to be effective in humans for the pattern that reveals itself. Not surprisingly homeopathy has an excellent track record in the treatment of epidemics and pandemics historically. Efforts to undermine it stem from a need for a segment of the population to hold onto a materialistic view of life that has a stranglehold on so many aspects of our human existence. Indeed many of us find ourselves in situations where just about all of our life energy has to be focused on day to day survival.

Multiple cultural lenses need to be used when solving the problems of human living, especially given the billions of people that now need to thrive

on this planet. Answers can come from the technologies of cultures past and present. I am clear that there is a role for therapies that help to clear a person's bio field of thoughts and emotions and charged experiential memories that detract from the flow of life energy and that this would help to minimize the incidence of serious illness. The crutches of alcohol, sugar, and any number of habits and addictions are ill advised coping mechanisms and it will take a cultural shift toward a non material based understanding of life to effectively address the real emotional and physical needs of people. The bio field itself is full of so many random "charges" from a lifetime of emotional hits and the accumulating residue of an aging body.. We have to come up with better solutions than expensive drugs to solve the problems of our living together and the appearance of toxins and viruses that are inimical to our existence.

I have shared perspectives that have focused on public health, biochemistry and botanicals, and

looking at the larger human bio field in relation to our concern about how to deal with the corona virus and future iterations of it. There is a lot that can be said about where viruses come from...how this genetic material was generated. Its safe to say that if we do not examine how we are contributing to the incidence and occurrence of these entities threatening human existence then we run the risk of never getting to the bottom of what we need to do to truly create a harmonious existence for all life on this planet. As Conscious Beings we should be clear that our outer environment will resonate with whatever we are carrying in our inner environment. Lets give some thought to some of these larger issues and realities as we master the day the day skills of keeping our bodies healthy and free of disease. .

References: Useful videos, Scholarly articles

- 1) <https://youtu.be/mOV1aBVYKGA> Corona virus animated

2) https://youtu.be/wUgEhfo_qxU

Understanding viruses

3) Nutraceuticals boosting interferon response to influenza and corona virus

<https://www.sciencedirect.com/science/article/pii/S0033062020300372>

4) Antiviral Nutraceuticals

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4032839/>

5) Antiviral Natural Products and Herbal Medicine

Liang-Tzung Lin et al

J of Traditional and Complementary Medicine 2014

Jan-Mar 4(1)

6) Nuclear Factor Kappa B – A Pivotal Transcription Factor in Chronic Inflammatory Disease

By Peter Barnes D.M and Michael Karin Ph.D

NEJM April 10, 1997

7) The Regulatory Effect of Oxymatrine on TLR/MYD88/NF kappa B signaling....

Lumeti et al

Phytomedicine 36 2017

- 8) Andrographolide sulfonate ameliorates lipopolysaccharide-induced acute lung injury in mice by down-regulating MAPK and NF- κ B pathways.

Peng S¹ et al

Acta Pharm Sin B. 2016 May;6(3):205-

- 9) <https://www.doctorbhatia.com/treatment/coronavirus-covid-19-symptoms-homeopathic-remedies-for-treatment-and-prophylaxis/>

- 10) Resveratrol ameliorates lipopolysaccharide-induced epithelial mesenchymal transition and pulmonary fibrosis through suppression of oxidative stress and transforming growth factor- β 1 signaling.

Zhang YQ et al

Clin Nutr. 2015 Aug;34(4):752-6

- 11) Regulation of Antiviral Cell Response by Type 1 interferon Josh Crouse et al Nature Reviews Immunology Volume 15, April 2015

- 12) Acute Respiratory Distress Syndrome Taylor Thompson MD et al NEJM.org Aug 10, 2017

13) Acute Respiratory Distress Syndrome: From
Mechanism

To Translation by SeungHye Han and Rama K.
Mallampalli

Journal of Immunology Feb 29, 2020

13) Role of Pattern Recognition Receptors in
Innate Immunity....

By Taro Kawai, Shizuo Akira

Nature Immunology May 2010