



“Feeling confused as to why Coronavirus is a bigger deal than Seasonal flu? Here it is in a nutshell. It has to do with RNA sequencing ... i.e. genetics.

Seasonal flu is a “human virus” that has DNA in addition to RNA. The chains that make up the virus are recognized by the human immune system because it has DNA in addition to RNA. This means your body has some immunity to it before it comes around each year. You get immunity two ways: through exposure to a virus, or by getting a flu shot.

Novel viruses come from animals. Usually these viruses only transfer from animal to animal (pigs in the case of H1N1) (birds in the case of the Spanish flu) due to RNA ONLY sequencing. But once one of these animal viruses mutates and starts to transfer from animals to humans ... then it's a problem. Why? It is because humans have no natural or acquired immunity. The RNA sequencing of genes inside the virus has no human genetic history. Therefore the human immune system doesn't recognize it so we can't fight it off. (Remember that humans only recognize the combination of RNA AND DNA)

Sometimes the mutation only allows transfer from animal to human and for years the only transmission is from an infected animal to a human. Unfortunately usually over extended time the virus mutates so it can now transfer human to human. Once that happens .. we have a new contagion phase. And depending on the fashion of this new mutation, that's what decides how contagious, or how deadly, it's gonna be .

H1N1 was deadly but it did not mutate in a way that was as deadly as the Spanish flu. The virus RNA was slower to mutate and it attacked its host differently, too.

Fast forward to this Coronavirus ... it has probably existed in animals only for nobody knows how long. However, one day at an animal market, in Wuhan China, in December 2019, it mutated and made the jump from animal to people. At first only animals could give it to a person ... but here is the scary part ... in just TWO WEEKS it mutated again and gained the ability to jump from human to human. Scientists call this quick ability, “slippery”.

This Coronavirus, not being in any form a “human” virus (whereas we would all have some natural or acquired immunity) took off like a rocket. And this was because humans have no known immunity and doctors have no known medicines for it.

And it just so happens that this particular mutated animal virus changed itself in such a way the way that it causes great damage to human lungs.

That's why Coronavirus is different from seasonal flu, or H1N1 or any other type of influenza ... this one is “slippery”. And it's a lung eater ... and, it's already mutated AGAIN so that we now have two strains to deal with, strain S and strain L ... which makes it twice as hard to develop a vaccine.

We really have no tools in our shed with this. History has shown that fast and immediate closings of public places has helped in the past pandemics. Factoid: Henry VIII stayed in his room and allowed no one near him, till the Black Plague passed ... (honestly, I understand him so much better now). Just like us, he had no tools in his shed, except social isolation...

And let me end by saying ... right now it's hitting older folks harder ... but this genome is so slippery ... if it mutates again (and it will) who is to say what it will do next. This is my greatest fear!