

A way to fight CoronaVirus

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Abstract: A method for fighting the pandemia is proposed, based on allowing an antagonism between the molecules of CoronaVirus [1]

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1. The proposition

Before making artificial ventilation of the lungs of a human who is ill with the CoronaVirus (C.V.), insert (add) into the lungs some *specialy treated* molecules of the CoronaVirus (C.V.). This preliminary treatment of the added molecules means that they receive a cover that would allow the usual (uncovered) molecules of the CoronaVirus, accumulated in the lungs, to attack the added molecules by their protein arrows. This should reduce (weaken) the attacking of the lungs' cells by the accumulated molecules.

Because of the mutual "antagonism" (the fight) between the CV molecules, the number of the CV molecules in the lungs has to be reduced. When this reduction is sufficient (let us speak about "critical level" of the concentration) -- the ventilation of the lungs has to be started immediately.

2. Discussion

1. The material for the preliminary covering the added molecules should be similar (though it may be simpler, according to its relatively simple purpose here) to the material that covers the cells of the lungs, allowing an CV molecule of the lung to be "glued" to the added one, just as it is glued to the lungs' cell, when attacking it by the protein arrows – the essence of the decease.
2. In order not to miss the critical level, a control of the density of the CV molecules inside the lungs is necessary. This control can be done in the exhaled air during the breathing, using some optical, electronic, or chemical detection.
3. From the mathematical point of view, the making the added molecules specially covered, means

that the equation for $\frac{dn}{dt}$, where n is the density of the CV molecules in the lungs, would include

a term proportional not to n^2 , but to n^*n where $n^* = n^*(t)$ is the density of the added (covered) molecules, which we control, and thus can consider to be a known time-function, a kind of a pulse. That is, this equation should not be nonlinear, but linear-time-variant.

4. This method should weakly depend on possible mutations of the CV molecules, because the purpose to allow the CV molecules to be mutually "glued", is just relevant to allowing usage of the protein arrows that should be present in CV molecules of any mutation (otherwise the mutation is simply not dangerous, and there is no illness).

Acknowledgements

I am grateful to Mr. Eithan Gluskin (Israeli medical/health system) for a useful discussion. My initial argument that the CV molecule cannot know whether it meets a lung's cell, or another CV molecule, and thus, also in the latter case, behaves aggressively, was rejected by Eithan, who explained me the importance of the (sophisticated, and *generally* very useful) protein layer covering the lungs cells. Thus, it became clear that the added molecules have to be specially treated, receiving a cover that allows the "gluing".

Conflict of interests

There is no any conflict of interests!

Reference:

[1] <https://nejm.org/coronavirus>