

Review of: "The Changing Trajectory of Covid-19 and How Immunity is Evolving with It"

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Potential competing interests: None

I have been retired for 16 years and should not comment on the scientiric aspects.

The classical defintion of epidemic is a disease of widespread occurrence at a particular time. Endemic means regularly found in a community or in a region. With Covid the "point of transition" in not a point but rather a gradual process.

Therefore the authors have to be very specific about their criteria. Some would argue that Covid is now endemic in world terms, although there might be small epidemics in very small areas where it has not yet arrived (very rare) or in areas that have been free of Covid for a while (rare).

Similarly there are problems with the term evolving immunity. Evolution is not quite the same as Darwinian evolution (all species of organisms arise and develop through the natural selection of inherited variations that increase the individual's ability to compete, survive, and reproduce") Pathogens can evolve and individual humans may develop immunity in response to pathogens but for this to be incorporated into the human species takes generations of humans. Perhaps best to retitle "The variability of SARS-COV-2 (that is the virus whereas Covid-19 is the illness) and the host immune responses." Or something along those lines,

I hope this helps. Do you have any other questions?

Qeios ID: SYYBO5 · https://doi.org/10.32388/SYYBO5