

Fig. 1.8 Tests per million versus confirmed per million (bubble size represents test positivity rate). Data source of Figs. 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7 and 1.8—Covid19india.org (as on 20.6.2020)

1.3 SARS Corona Virus 2

The novel corona virus is a positive sense single stranded RNA virus [9] belonging to the SARS Corona group with a little varied gene makeup making it a novel organism. The virus is spherical with numerous spikes projecting on the surface giving its peculiar appearance [10]. The genome of the organism is 27–30 KB with genes coding for different structural proteins like Membrane (M) protein, Envelope protein (E), Spike Protein (S) and Nucleocapsid (N) protein. These structural genes are essential for the virus assembly and trafficking [11]. The non-structural genes include ORF, Viral replicase etc. The spike protein of the virus enables the anchoring of these viral capsids onto the host cell membranes [12] (Fig. 1.9).

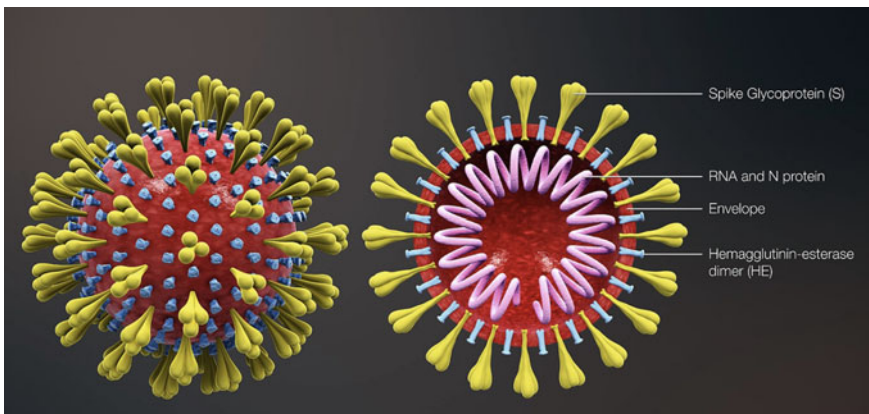


Fig. 1.9 Structure of the SARS CoV 2019 [13]. Source https://commons.wikimedia.org/wiki/File:3D_medical_animation_corona_virus.jpg