

virus	size (nm)	genome size (base pairs)	genome type, capsid structure	BNID
porcine circovirus (PCV)	17	1,760	circular ssDNA, icosahedral	106467, 106468
cowpea mosaic virus (CPMV)	28	9,400	2 ssRNA molecules, icosahedral	106454, 106455
cowpea chlorotic mottle virus (CCMV)	28	7,900	3 ssRNA molecules, icosahedral	106456, 106457
φX174 (<i>E. coli</i> bacteriophage)	32	5,400	ssDNA, icosahedral	103246, 106442
tobacco mosaic virus (TMV)	40x300	6,400	ssRNA, rod shaped	104376, 104375, 106453
polio virus	30	7,500	ssRNA, icosahedral	103114, 111324
φ29 (<i>Bacillus</i> phage)	45x54	19,000	dsDNA, icosahedral (T3)	109734
lambda phage	58	49,000	dsDNA, icosahedral (with tail)	103122, 105770
T7 bacteriophage	58	40,000	dsDNA, 55 genes, icosahedral (T7)	109732, 109733
adenovirus (linear DNA)	88-110	36,000	dsDNA, icosahedral	103114, 103115, 106441
influenza A	80-120	14,000	ssRNA, roughly spherical	104073, 105768
HIV-1	120-150	9,700	ssRNA, roughly spherical	101849, 105769
herpes simplex virus 1	125	153,000	dsDNA, icosahedral	103114, 106458
Epstein-Barr virus (EBV)	140	170,000	dsDNA, icosahedral	103246, 111424
mimivirus	500	1,200,000	dsDNA, icosahedral	105142, 105143
pandora virus	500x1000	2,800,000	dsDNA, icosahedral	109554, 109556

How big are viruses?

This is an interesting question because among other properties it determines their ability to float i.e. persist in the air - provided of course they are not killed off by UV, lack of nutrients etc.

Column 2 of the table shows sizes as low as 17 nm (nanometres). Such nanometre particles can persist in the air for long periods - again if the virus itself is not killed off.

Apparently, there is already evidence that the coronavirus is found in air, especially indoors - i.e. well away from 2 metres from humans, see:

<https://www.dailymail.co.uk/news/article-8171521/Coronavirus-does-spread-air-lingers-rooms-long-patients-left-study.html>

"Coronavirus does spread through the air and lingers in rooms long after patients have left, study finds"

Information shared by an emeritus professor from Bristol!

Take a look and bear in mind there are indications that Covid-19 might be contained in air after an infectious person has been hospitalized and ergo in your home if someone in the family is infected and not in isolation.

MIT, USA have confirmed a viral projection of 27 foot from an infected cough: https://www.newsmax.com/health/health-news/virus-6-feet-27-feet-social-distancing/2020/03/31/id/960704/?ns_mail_uid=88972a68-405f-4e7e-8c26-de74f3b24d3d&ns_mail_job=DM100783_03312020&s=acs&dkn_nbr=010102c2ywmn

Also do take note about specific cleaning regimes as recommended by the:Centers for Disease Control and Prevention- You might be shedding and not yet symptomatic and therefore infecting your household.

News sources report that the coronavirus can survive on certain surfaces for varying lengths of time. According to a recent article published in [SELE](#), a study from the National Institute of Allergies and Infectious Diseases points out that the new coronavirus can live on copper surfaces for four hours, on cardboard for 24 hours and on plastic and stainless steel for up to four days.

Therefore, cleaning your home regularly is critical especially if you have several people in the house who may be coming and going. According to the [Centers for Disease Control and Prevention](#), there is a difference between cleaning and disinfecting your home and you need to do both in order to protect yourself and your loved ones.

Cleaning refers to the removal of dirt and grime from surfaces, while **disinfecting refers to using chemicals to kill germs on these surfaces.** The agency recommends that you should clean and disinfect high-touch surfaces daily. These include tables, hard-backed chairs, doorknobs, light switches, remotes, handles desks, toilets and sinks.

The CDC also recommends the use of disposable gloves while cleaning and disinfecting surfaces. "Gloves should be discarded after each cleaning," says the CDC. "If surfaces are dirty, use a detergent or soap and water prior to disinfection."

Finally bear in mind that Sweden is to introduce mask wearing in public spaces, perhaps sew your own and use a Henry Hoover bag as the filter. Template available at this site: <https://diymask.site/> has instructions and videos and templates.

Keep you and your household well.