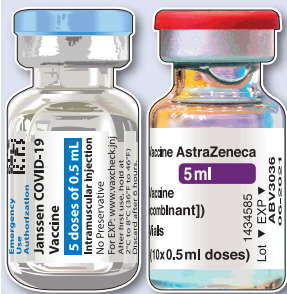


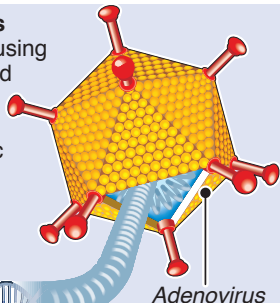
Viral vector vaccines paused

After reports of rare blood clotting, the U.S., EU and South Africa have paused the rollout of Johnson & Johnson's coronavirus vaccine. The move follows similar cases after doses of AstraZeneca's vaccine

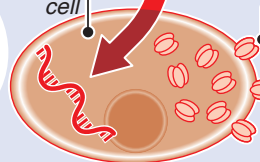


Viral vector vaccines

Use common-cold causing **adenovirus** – modified so it is unable to cause disease – as vector to carry genetic instructions into human cells



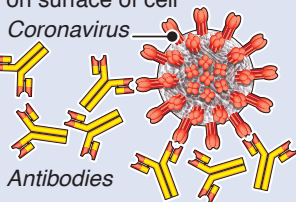
Human cell



Gene creates viral protein on surface of cell

Coronavirus

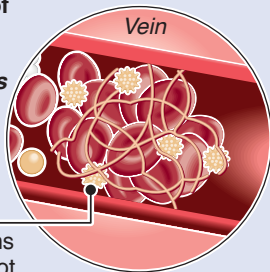
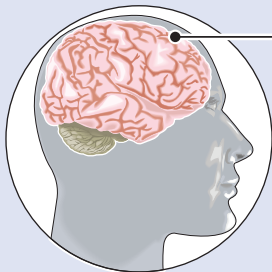
Antibodies



Protein stimulates human immune system to produce antibodies. **If infected, antibodies attack coronavirus**

Blood clots in veins of brain: Europe* detects 222 cases, including **cerebral venous sinus thrombosis**, out of 34 million injections. Six cases of CVST out of 6.8m shots in U.S.

Platelets: Form mesh with blood cells, proteins and fibrin to produce clot



*EU, Iceland, Norway, Liechtenstein and UK as of April 4, according to European Medicines Agency