**Encapsulated mRNA Vaccine**

Vaccine – Human cell – RNA - Spike – Immune response – body cell expresses the vaccine

mRNA encoding for the Spike protein is protected in a lipid nanoparticle (like soap bubble). Once absorbed, the cell expresses the Spike protein resulting in an immune response.

* Efficacy : original strain / B1.351 “SA” strain
* Dosing : 0.5mL – 2 doses – 28 days apart
* Storage – 6 months / 30 days

**Viral Vector Vaccine**

vaccine (Adenovirus) – Human cell – DNA - Spike – Immune response – body cell expresses the vaccine

1st dose / 2nd dose

dsDNA encoding for the Spike protein is protected in a safe virus. The infected cell expresses the Spike protein which leads to an immune response.

* Efficacy : UK strain / B1.351 “SA” strain
* Dosing : 0.5mL – 2 doses – 28 days apart
* Storage – months / years

**Virus-like Particle Vaccine**

Nanoparticles coated with Spike proteins

Nanoparticles are coated with synthetic spike proteins. An additional element called adjuvant is added which allows to boost the immune reaction.

* Efficacy : UK strain / B1.351 “SA” strain
* Dosing : 0.5mL – 2 doses – 21 days apart
* Storage – months / years

**Inactivated Virus Vaccine**

Inactivated coronavirus

SARS-CoV2 is chemically inactivated (with a chemical called beta-propiolactone ) so it cannot replicate but all the proteins remain intact.

* Efficacy : UK strain / B1.351 “SA” strain
* Dosing : 0.5mL – 2 doses – 3. weeks apart
* Storage –

Last Updated on xxx