

mRNA COVID-19 Vaccine

Randomised Placebo-Controlled Clinical Trial

Phase 3 Started: Aug 2020 [US & Global]

Clinical Trial End Date: Jun 2021

Safety & Efficacy End Date: Dec 2022

Participants: 43.5K Healthy Only [50% placebo]

What the Study is testing for:

modifed RNA that **instructs cells to produce the SARS-CoV2 Spike Protein**and present it outwards, initiating an immune response - hopefully with

Experimental vaccine technology injects

mRNA Vaccine Tech

sustained neutralising B & T Cell memory.

No mRNA Vaccine has ever had regulatory approval. **Uncharted territory.**

Immediate Adverse Reactions

COVID-19 Infection Prevention Neutralising Antibody Production Serious COVID-19 Infection Prevention

Long Term Vaccine Injury (2YR)

Independent Interim Analysis:

39K Healthy Individuals received 2nd Dose **94 COVID-19 Cases** (PCR +ve & 1+ Symptom) **~1 month** Median time after 2nd Dose

~85
people
Placebo

~ • • people

Vaccinated

90% of infections in placebo group

This interim analysis could have been produced in Oct. However, in October, team decided to NOT test samples for SARS-CoV2 with FDA. Then, on 4th Nov, they decided to commence sample testing. They met on Sunday 8th Nov - once the president-elect was announced by the media. Announced 9th Nov.

Next Steps:

No further interim analysis will be performed. By 3rd week of November there will be a median of 2 months of Safety data, and an **EUA** can be applied for from the FDA - with approval expected in **December**.

What is Not Known

- Adverse Reactions data

 (aches, fever etc supposedly worse than Pfizer's Flu vaccine)
- Neutralising Antibody & T Cell Data (were they measured before trial?)
- Will vaccine-induced Immunity wane?
- Prevention of Serious COVID-19 cases
- Long term vaccine-induced injuries
- Does vaccine prevent carrying and shedding SARS CoV2? (v. unlikely)
- Are mRNA vaccines a good idea?

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