

Recombinant COVID-19 Protein Vaccine

Efficacy Outcomes from pivotal clinical trials

2019nCoV-302 Trial¹ | Adults 18–84 years



Phase 3, randomized, observer-blinded, placebo-controlled trial



15,187 adults from 33 sites in the UK



Predominantly alpha (B.1.1.7) variant



28 SEPT 2020 – 20 NOV 2020



Efficacy*

89.7%

Efficacy of NVX-CoV2373 against 1st occurrence of lab-confirmed symptomatic Covid-19 with onset at least 7 days after the 2nd dose

95% CI: 80.2–94.6

Non-B.1.1.7 variants

96.4%

Post-hoc analysis of 1^o endpoint; efficacy against non-B.1.1.7 strains (n=29)

95% CI: 73.8–99.4

B.1.1.7 variant

86.3%

Post-hoc analysis of 1^o endpoint; efficacy against B.1.1.7 strains (n=66)

95% CI: 71.3–93.5

Limitations

- **Rare adverse events** could not be ruled out
- **Short observation period** post dose 2
- **Lack of sequencing data on viral isolates**; S-gene target failure used as proxy for B.1.1.7 variant
- **Limited racial diversity** (5.7% non-White participants)

PREVENT-19 Trial² | Adults ≥18 years



Phase 3, randomized, observer-blinded, placebo-controlled trial



29,949 adults from 113 sites in the US and 6 in Mexico



Predominantly alpha (B.1.1.7); beta (B.1.351) and gamma (P.1) variants



27 DEC 2020 – 18 FEB 2021 and followed through 19 APR 2021



Efficacy[‡]

90.4%

Efficacy of NVX-CoV2373 against RT-PCR-confirmed Covid-19 occurring at least 7 days after the 2nd dose

95% CI: 82.9–94.6

Moderate-to-severe COVID[‡]

100%

Efficacy of NVX-CoV2373 against RT-PCR confirmed symptomatic moderate or severe COVID-19 occurring at least 7 days after the 2nd dose

95% CI: 87.0–100.0

Hospitalization^{‡†}

100%

4 hospitalizations among the 77 events analyzed for the 1^o endpoint; 0 among vaccine recipients and 4 among placebo recipients

95% CI: 28.8–100.0

Limitations

- **Limited follow-up** (~3 months)
- **Low enrollment of adults ≥65 years** due to EUA vaccine availability
- **Imbalance in unblinding requests** early in the trial

PREVENT-19 Trial – Pediatric Expansion⁴ | Adolescents 12–17 years



Phase 3, randomized, observer-blinded, placebo-controlled trial



2,247 adolescents from 73 sites in the USA



Predominantly delta variant



26 APR 2021 – 05 JUN 2021 and followed through 27 SEPT 2021



Efficacy[£]

79.5%

Efficacy of NVX-CoV2373 against lab confirmed symptomatic COVID-19 at least 7 days after 2nd vaccination due to any SARS-CoV2 variant

95% CI: 46.8–92.1

Delta variant

82%

Efficacy of NVX-CoV2373 against lab confirmed symptomatic COVID-19 at least 7 days after 2nd vaccination due to delta variant

95% CI: 32.4–95.2

Limitations

- **Short study duration**
- **Blinded crossover design** reduced placebo-controlled follow-up
- **Low case accrual** in each group
- **Exclusion of baseline seropositive participants** affected generalizability

*Among per-protocol population (n= 14,039); ‡Among per-protocol population (n= 25,452); †Post hoc analysis period was 25 JAN 2021 to 30 APR 2021; per-protocol population analyzed; £ Among per protocol population (n=1799)

Note: NVX-CoV2373 comprises 5 µg of full-length, prefusion-stabilized SARS-CoV-2 recombinant spike protein with 50 µg of Matrix-M™ adjuvant.

ABBREVIATIONS: CI, confidence interval; COVID-19, coronavirus disease 2019; d, day; EUA, emergency use authorization; FAS, full analysis set; PP, per protocol; SARS-CoV-2, severe acute respiratory syndrome coronavirus 2; UK, United Kingdom; US, United States; VOC, variant of concern; VOI, variant of interest.

REFERENCES: 1. Heath PT, et al. *N Engl J Med.* 2021;385(13):1172–1183; 2. Dunkle LM, et al. *N Engl J Med.* 2022;386(6):531–543; 3. Marchese AM, et al. *Vaccine.* 2023;41(22):3461–3466; 4. Áñez G, et al. *JAMA Netw Open.* 2023;6(4):e239135.