

Preliminary Phase 1 Data from Joint COVID-19 and Flu mRNA Vaccine Development Programs

January 6, 2023

Forward-Looking Statements

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For further information, please reference the company's reports and documents filed with the U.S. Securities and Exchange Commission (SEC). You may get these documents by visiting EDGAR on the SEC website at www.sec.gov.

Franz-Werner Haas

Chief Executive Officer

Ulrike Gnad-Vogt

Interim Chief Development Officer





1. Strong Validation of CureVac's mRNA Technology

- Data provide **proof of technology** for CureVac's mRNA platform and validates **second-generation mRNA backbone**

2. Modified mRNA Provides Best Performing Candidates

- Broad and unrestricted technology approach enables selecting **modified mRNA as best performing technology** against COVID-19 and flu
- **COVID-19:** modified candidate CV0501 encoding BA.1 appears to be generally well tolerated; induced **substantial antibody responses** in younger adults beginning at lowest dose; data-readout for older adults to be finalized
- **Influenza:** modified candidate Flu-SV-mRNA encoding HI antigen seems generally well tolerated; even at lowest dose in younger adults, **titers were at least in line** with a licensed comparator vaccine, data read-out for older adults to be finalized

3. Continued Clinical Development in 2023

- Candidates for COVID-19 expected to feature mono- and/or bivalent formats, encoding **relevant variants**
- Candidates for flu expected to feature **multivalent formats** encoding all four WHO recommended flu strains

CV0501

- Study start **August 2022**
- Encoding the **Omicron variant**
- **1-dose** booster, dose-escalation study
- Sites: U.S., Australia, Philippines

Phase 1 studies: **COVID-19**

CV2CoV

- Study start **March 2022**
- Encoding the **original variant**
- **1-dose** booster, dose-escalation study
- Sites: U.S.

Modified mRNA

Selecting the best candidate

Unmodified mRNA

FLU SV mRNA

- Study start **August 2022**
- **H1N1 encoding, monovalent** candidate
- **Single** administration, dose-escalation study
- Sites: Canada, Spain, Belgium

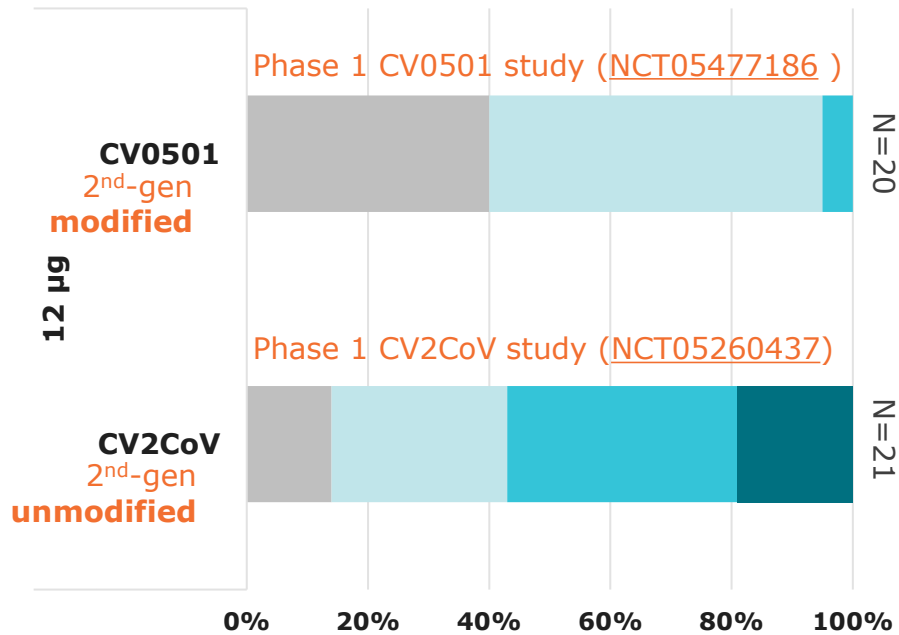
Phase 1 studies: **Influenza**

CVSQIV

- Study start **February 2022**
- **Multivalent** vaccine candidate
- Addressing **four different influenza strains**
- **Single** administration, dose-escalation study
- Sites: Panama

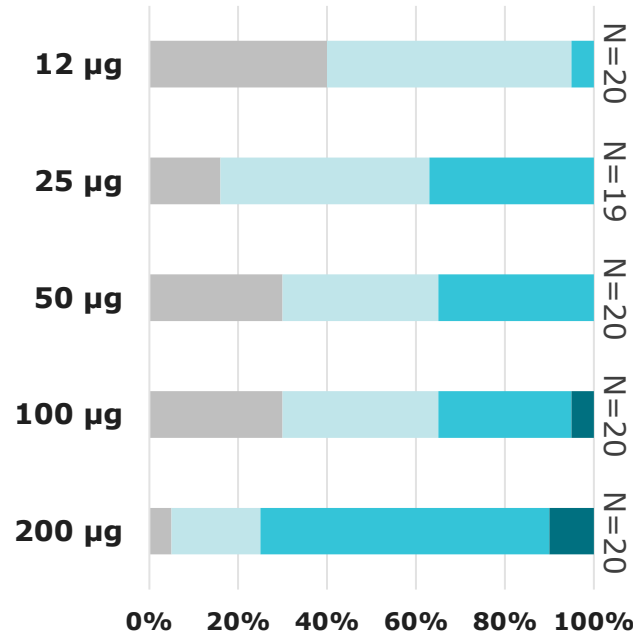
CV0501 vs. CV2CoV

Younger adults (18-64 years)

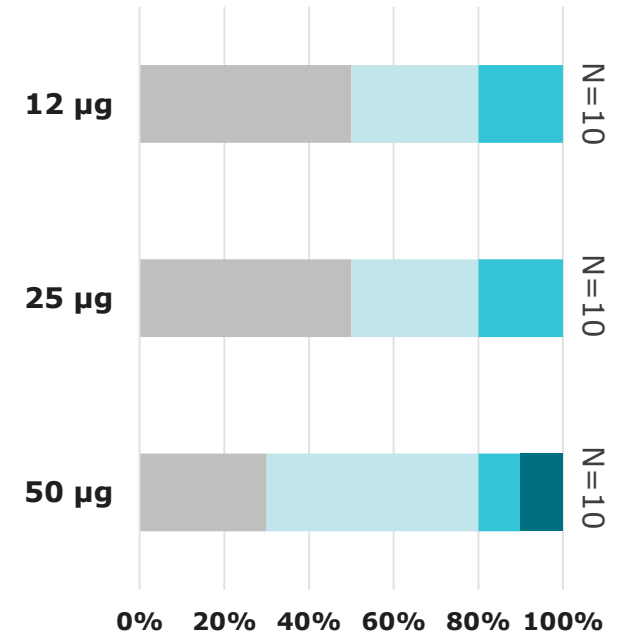


CV0501: Modified mRNA

Younger adults (18-64 years)



Older adults (≥65 years)

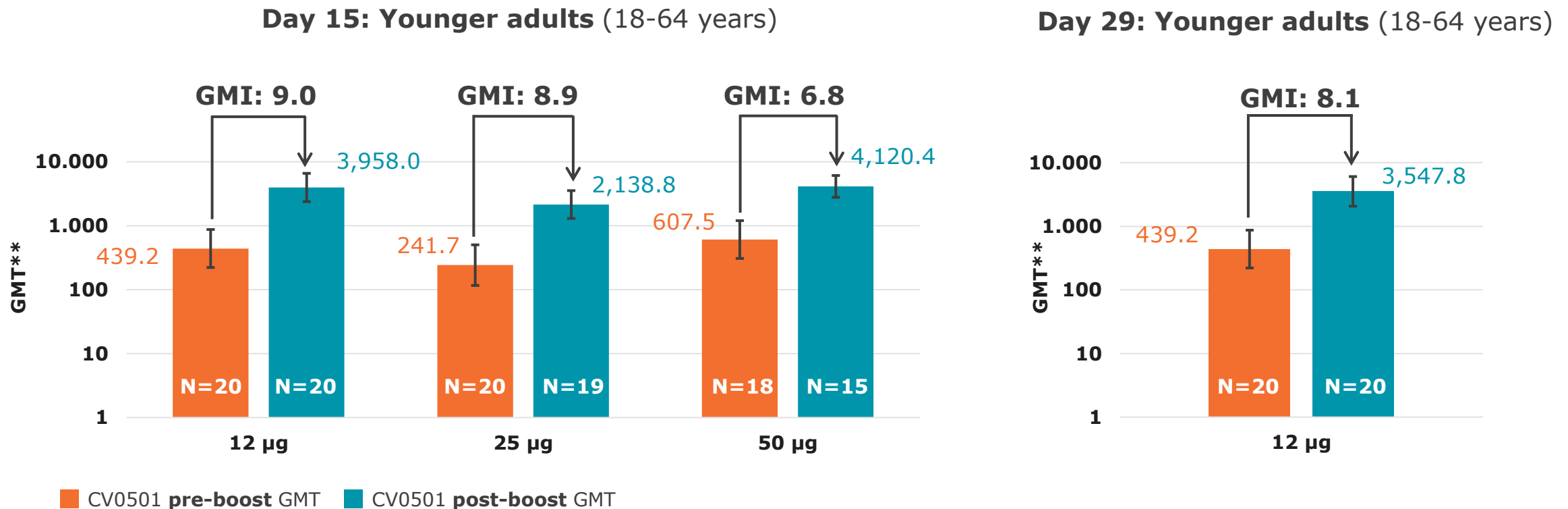


Grade 0 Grade 1 Grade 2 Grade 3

➤ Modified mRNA technology substantially improves reactogenicity profile – up to 200µg

COVID-19: CV0501 Immune Responses Against BA.1*

CV0501: BA.1 neutralizing antibodies (GMT) per dose level on days 15 and 29

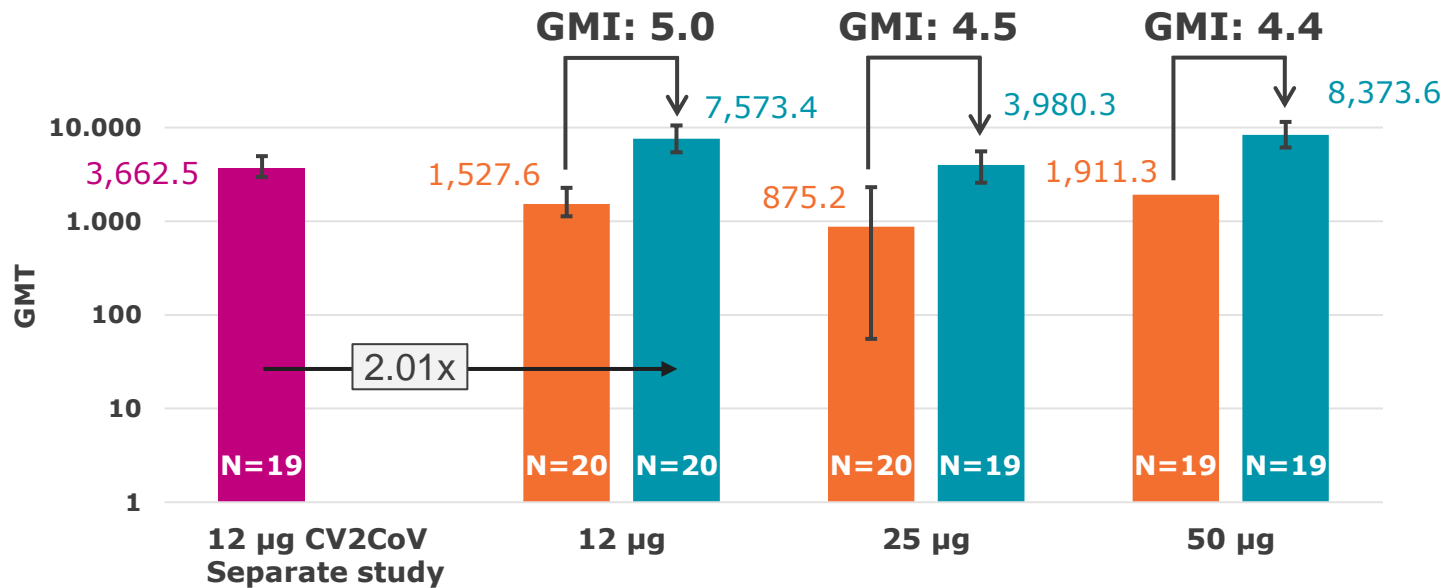


➤ CV0501 induces substantial antibody responses in younger adults against BA.1 at low dose levels

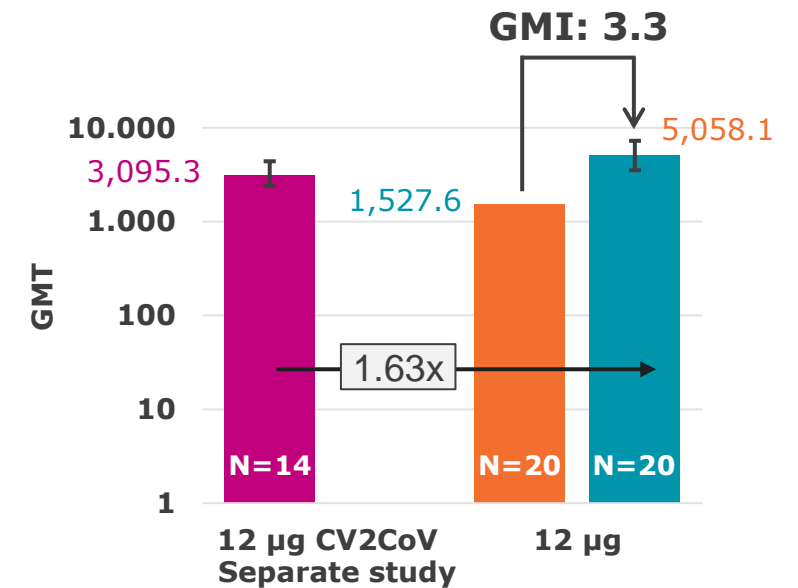
COVID-19: CV0501 Immune Responses Against Wild-Type*

CV0501: Wild Type neutralizing antibodies (GMT) per dose level on days 15 and 29

Day 15: Younger adults (18-64 years)



Day 29: Younger adults (18-64 years)



■ CV2CoV post-boost GMT (separate study)
 ■ CV0501 pre-boost GMT
 ■ CV0501 post-boost GMT

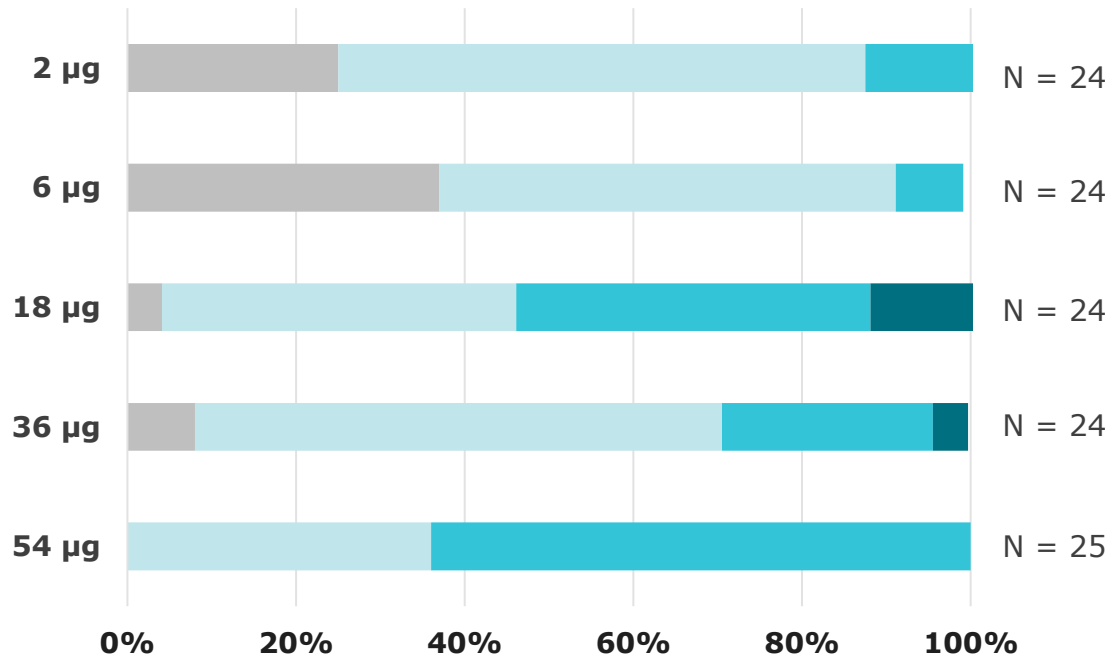
➤ CV0501 substantially improves neutralization of BA.1 and wild-type in younger adults

Influenza: Reactogenicity Comparison with Modified CV0501 COVID Candidate*



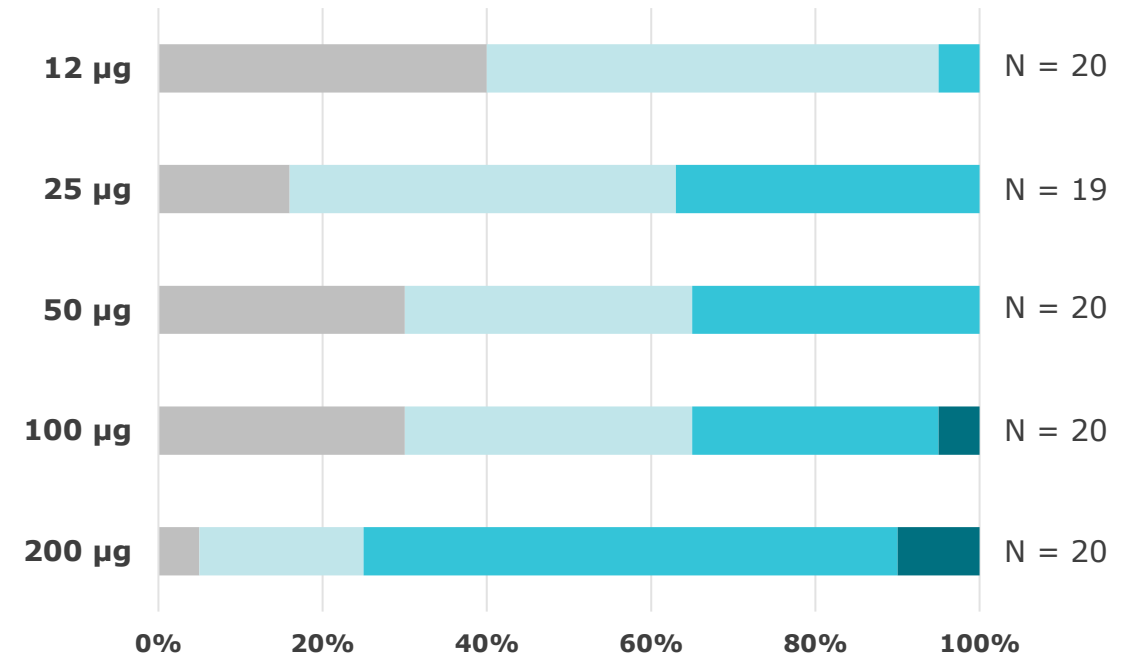
Flu-SV-mRNA: Modified mRNA

Younger adults (18-64 years)



CV0501: Modified mRNA

Younger adults (18-64 years)

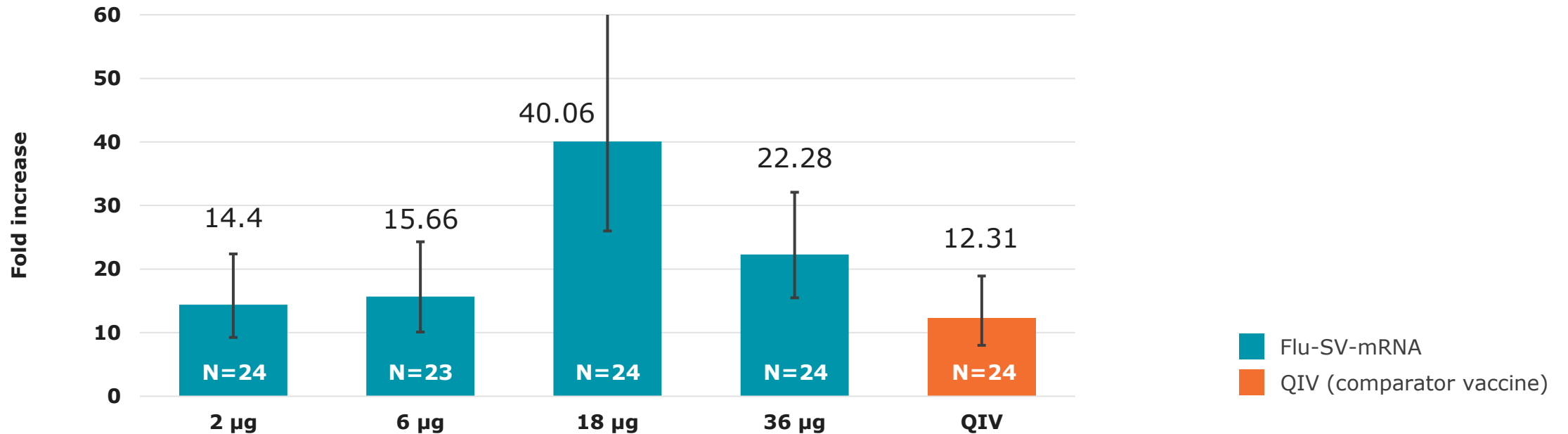


Grade 0 Grade 1 Grade 2 Grade 3

➤ Modified mRNA offers broad dose range in both indications

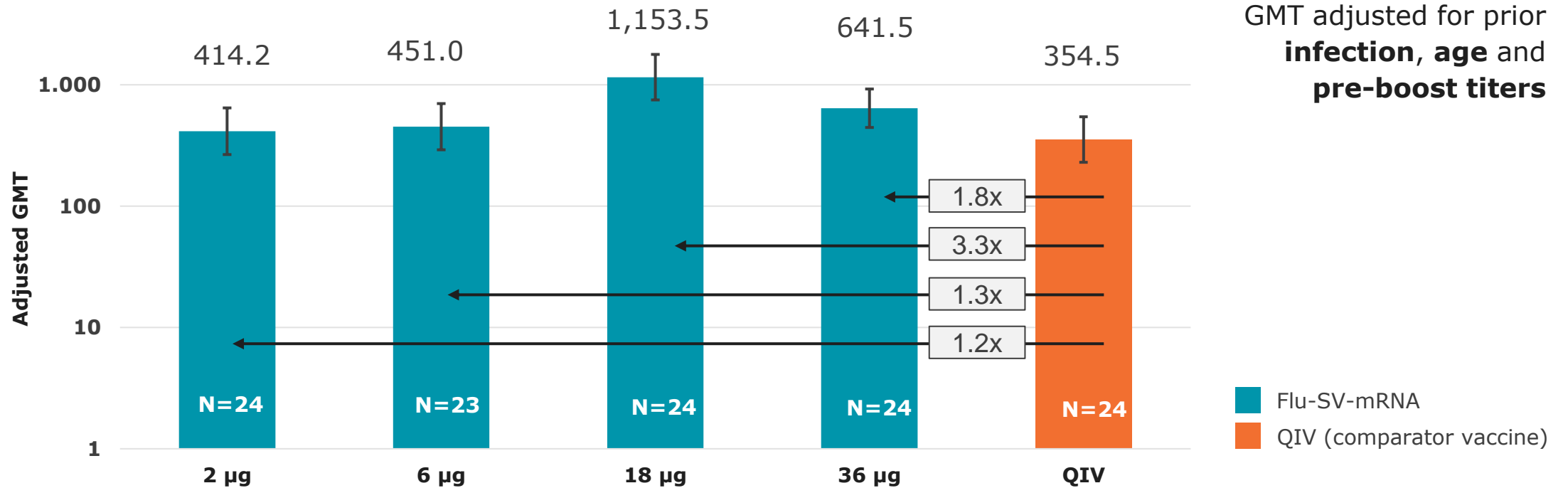
Ratio post- to pre-boost titers:

Ratio of serum **HI** geometric mean titers induced by **Flu-SV-mRNA** in **younger adults** (18-45 years)



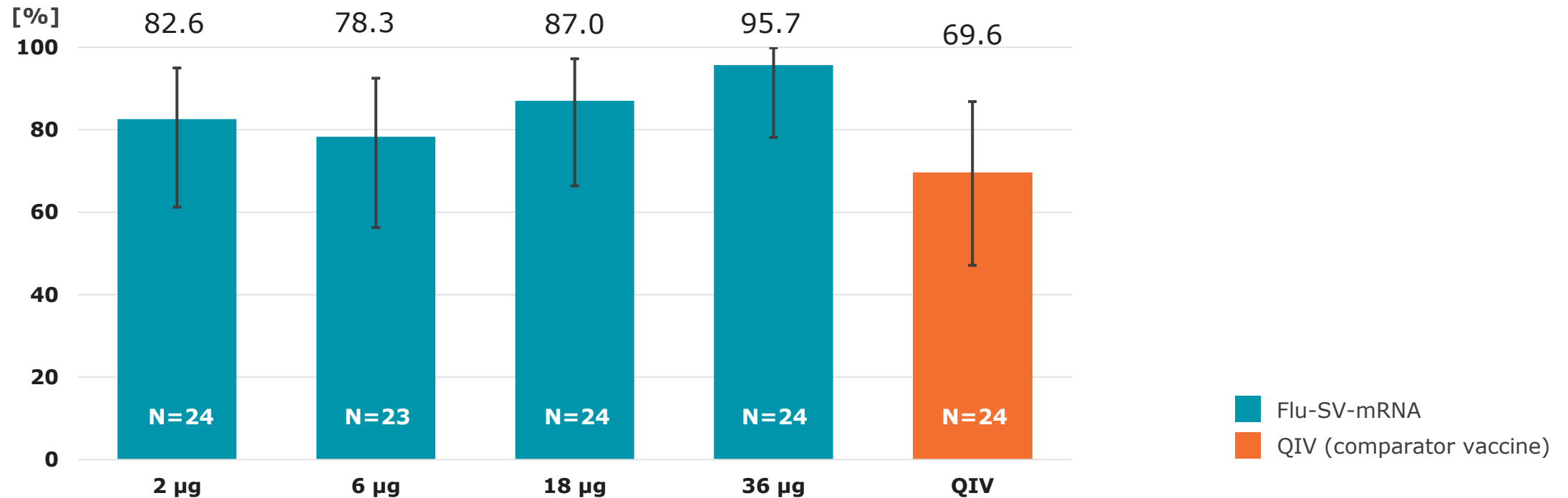
➤ Antibody increase of Flu-SV-mRNA in line with comparator vaccine already at lowest dose level

Flu-SV-mRNA: Serum HI GMT per dose on day 21, **younger** adults (18-45 years)



➤ Flu-SV-mRNA in line with licensed comparator vaccine in younger adults beginning at lowest dose

Flu-SV-mRNA: Seroconversion** rates in younger adults (18-45 years)



Flu-SV-mRNA in line with licensed comparator vaccine beginning at lowest dose



Preliminary clinical data provide **strong validation** of CureVac's proprietary technology platform in prophylactic vaccines



Fundamental transformation of the company has enabled broadening of technology platform and product development pipeline in prophylactic vaccines



Manufacturing considered **a key success factor** for the scalable supply of clinical trials and commercial efforts – to be supported by **large-scale GMPIV**



Continued clinical development in COVID-19 and flu in 2023 according to state-of-the-art formats and tailored toward **public health needs**



Second-generation mRNA backbone to also **drive forward oncology area** with two clinical trials anticipated to start in 2023





**Thank you for your
attention**

CureVac
www.curevac.com