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

January 30, 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.

Comprehensive Second-Generation Clinical Development in Infectious Diseases

CV0501

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

CV2CoV

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

Phase 1 studies: **COVID-19**

Modified mRNA

Selecting the best candidate

Unmodified mRNA

FLU SV mRNA

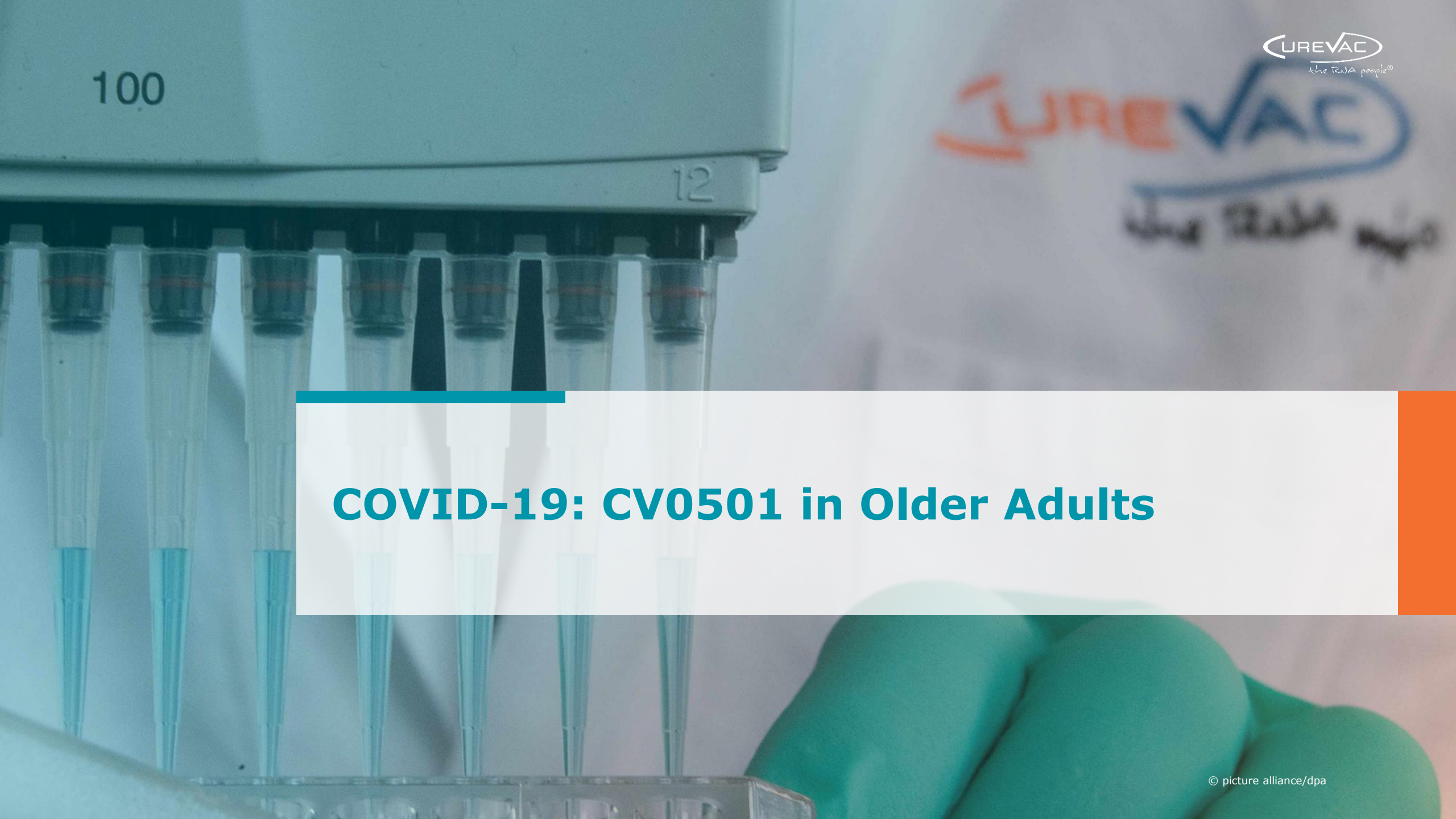
- Study start **August 2022**
- **H1N1 encoding, monovalent** candidate
- **Single** administration, dose-escalation study
- Sites: Canada, Spain, Belgium

Phase 1 studies: **Influenza**

CVSQIV

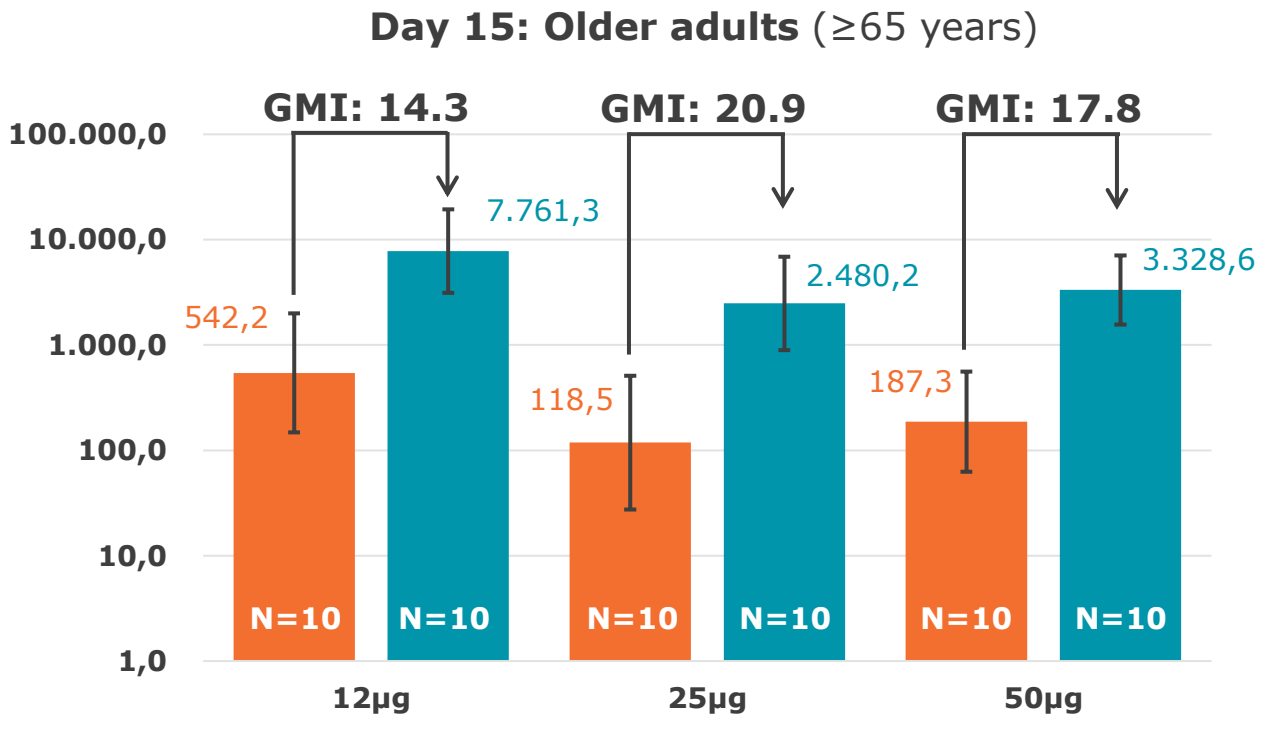
- Study start **February 2022**
- **Multivalent** vaccine candidate
- Addressing **four different influenza strains**
- **Single** administration, dose-escalation study
- Sites: Panama

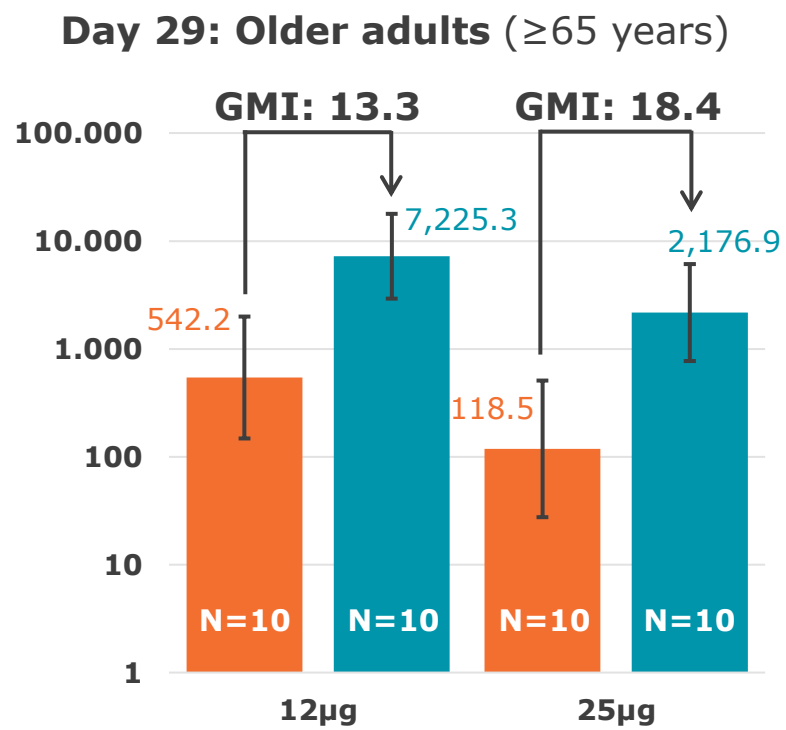
COVID-19: CV0501 in Older Adults



COVID-19: CV0501 Immune Responses Against BA.1 in Older Adults[1)]

CV0501: **BA.1** neutralizing antibodies (GMT) per dose level on days 15 and 29[2)]





CV0501 **pre-boost** GMT CV0501 **post-boost** GMT All shown dose groups fully recruited with 10 participants per dose

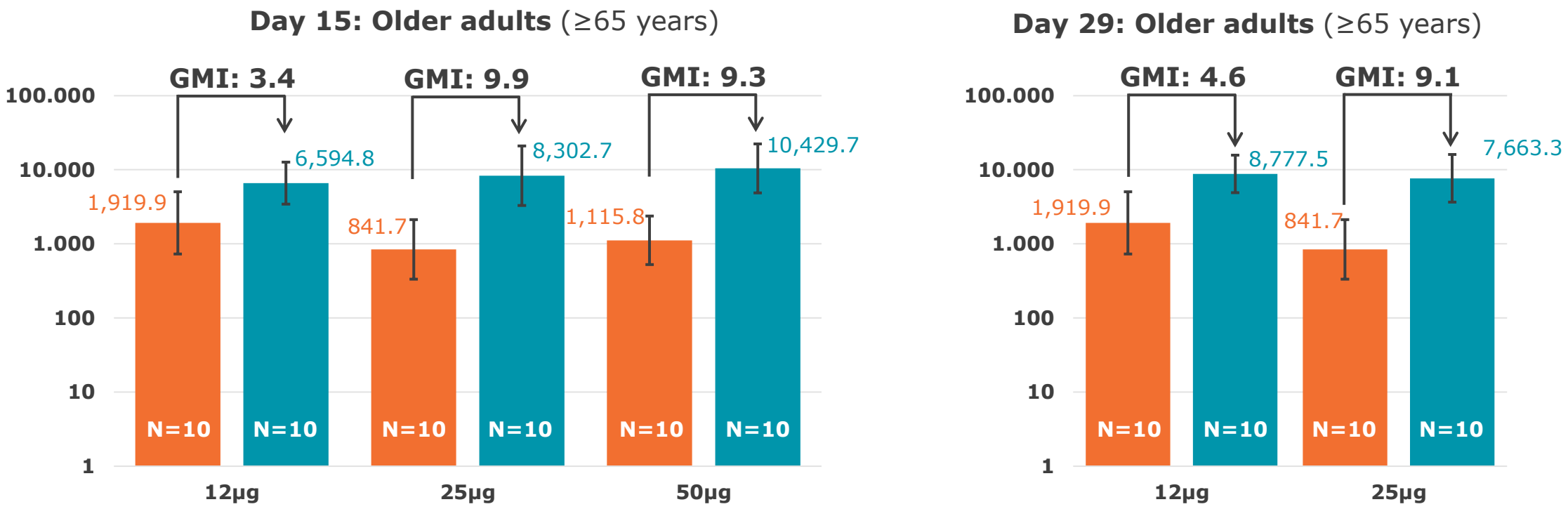
CV0501 induces substantial antibody responses in older adults against BA.1 already at low doses

1) Preliminary data prior to database lock
2) All GMT measured via **pseudo-typed** neutralization assay

GMT: Geometric mean titers
GMI: Geometric mean increase

COVID-19: CV0501 Immune Responses Against Wild-Type in Older Adults[1)]

CV0501: **Wild Type** neutralizing antibodies (GMT) per dose level on days 15 and 29[2)]

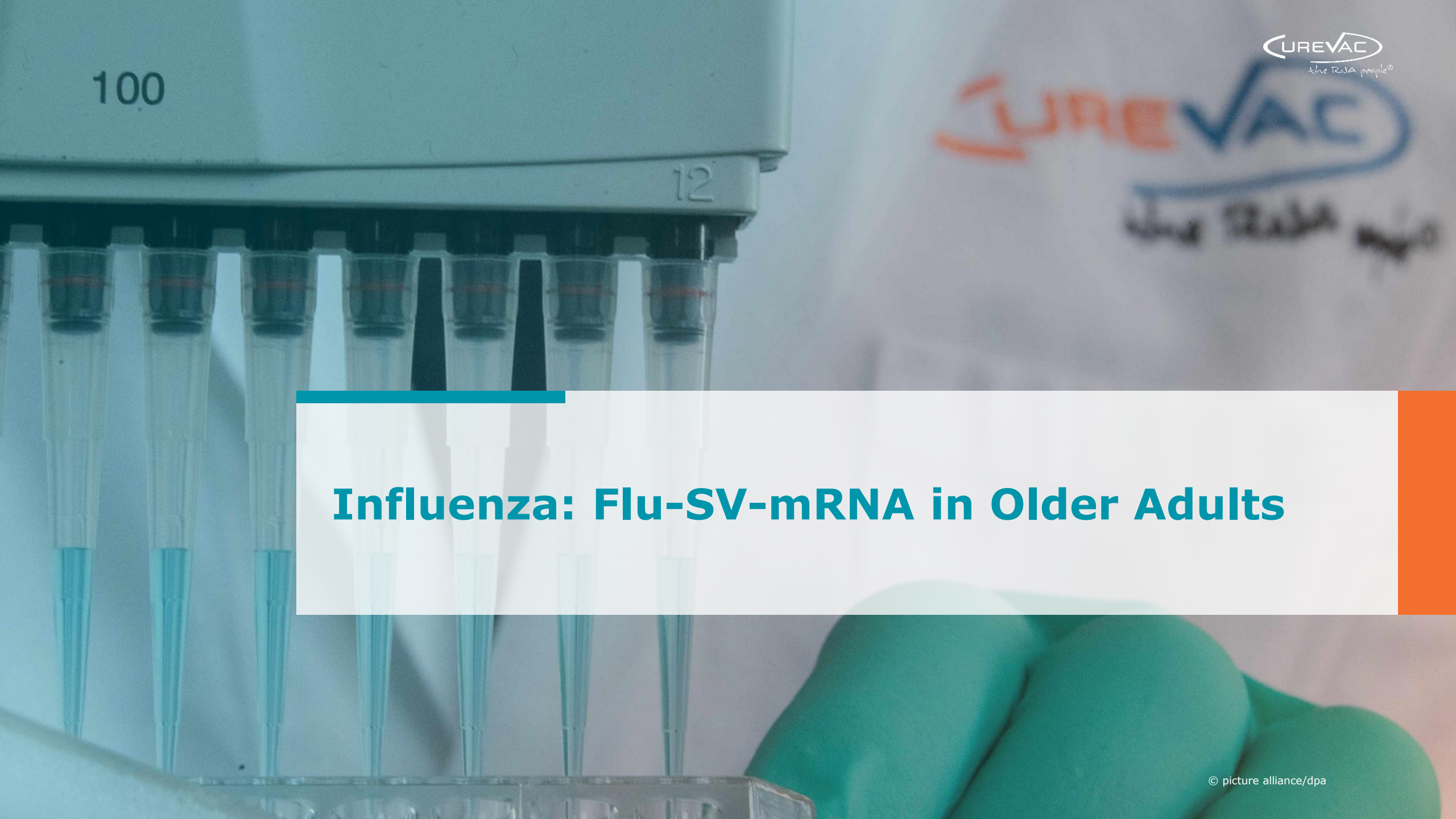


CV0501 substantially improves neutralization of wild-type virus in older adults

1) Preliminary data prior to database lock
2) All GMT measured via **pseudo-typed** neutralization assay

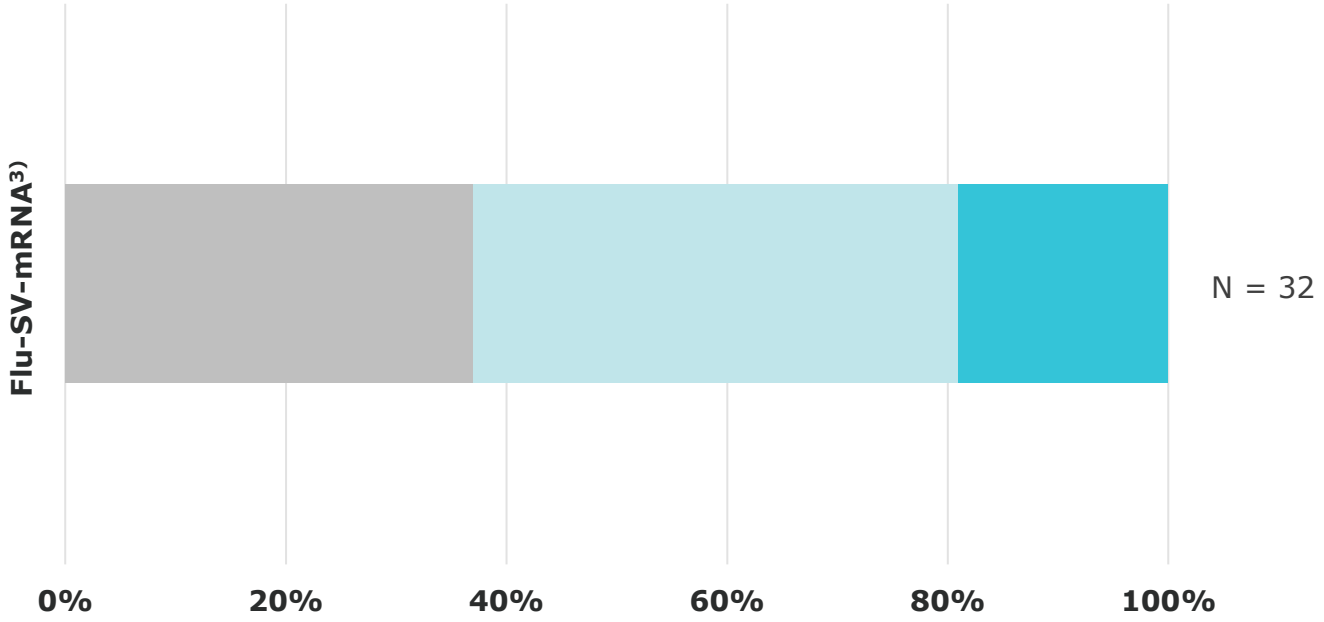
GMT: Geometric mean titers
GMI: Geometric mean fold rise

Influenza: Flu-SV-mRNA in Older Adults



Influenza: Flu-SV-mRNA Reactogenicity at Administered Dose in Older Adults[1)]

Older adults (60-80 years)[2)]



Grade 0, **no** adverse events: **37%**

Grade 1, **mild** adverse events: **44%**

Grade 2, **moderate** adverse events: **19%**

Grade 3, **severe** adverse events: **0%**

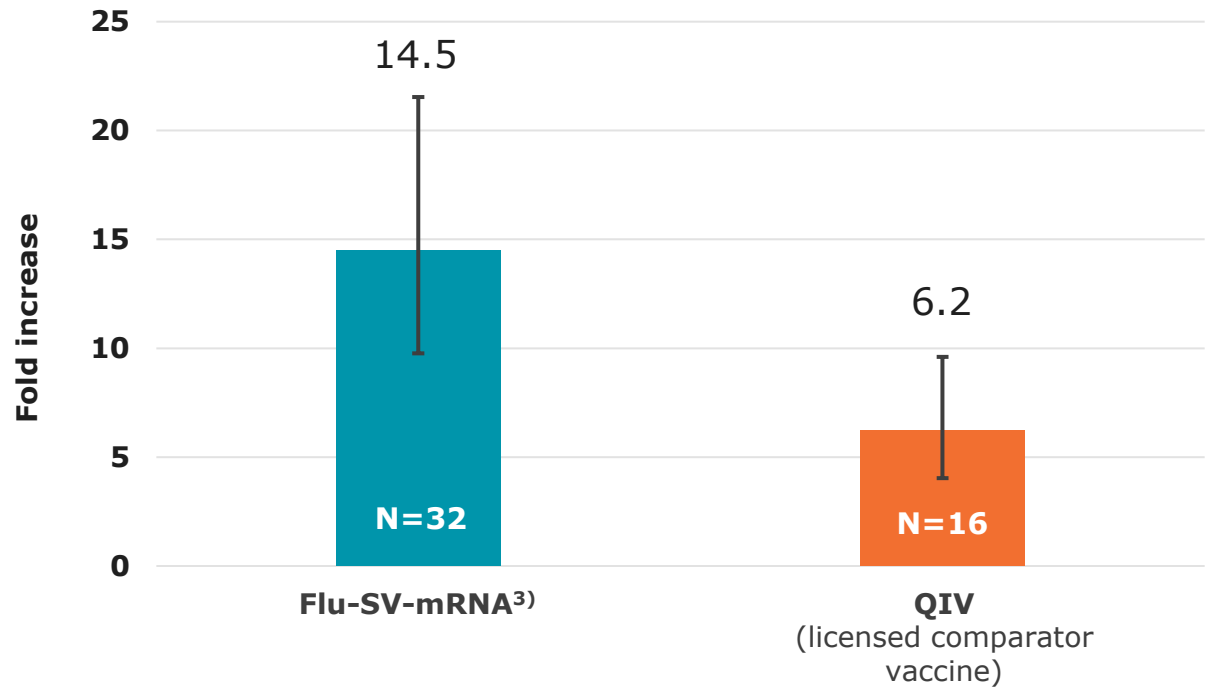
Flu-SV-mRNA is well tolerated at single tested dose in older adults

1) Preliminary data prior to database lock
2) Randomization ratio of 2:1 deviated from the ratio of 1:1 as per protocol
3) Undisclosed dose level

Influenza: Flu-SV-mRNA Boosting Activity in Older Adults[1)]

Ratio post- to pre-boost titers[2)]:

Older adults (60-80 years), ratio of serum **HI GMT** induced by **Flu-SV-mRNA**



Antibody increase after booster in older adults more than double compared to licensed comparator

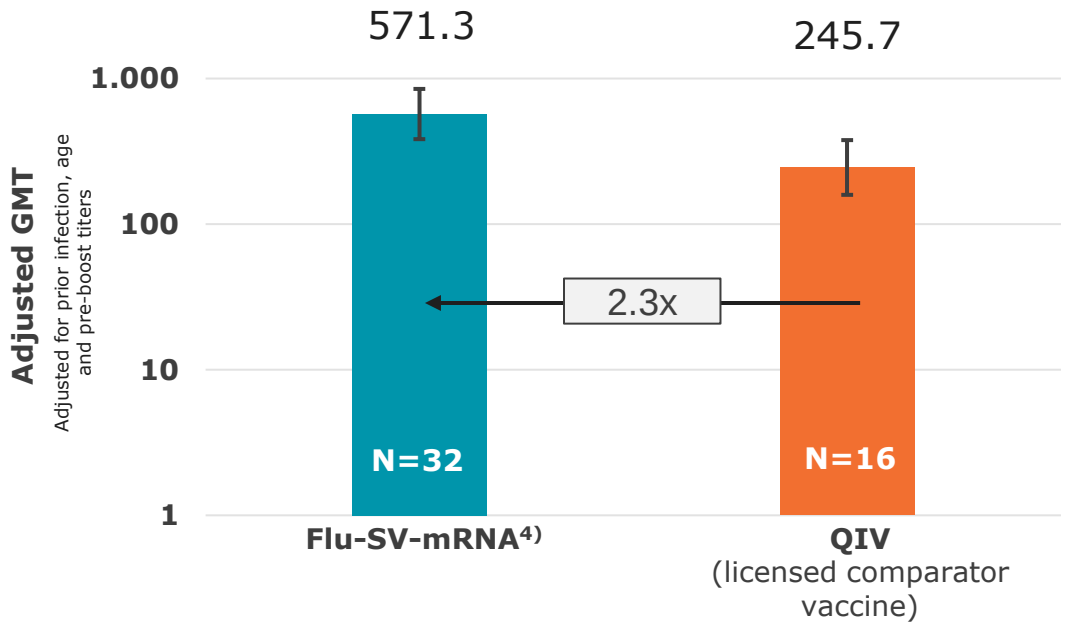
1) Preliminary data prior to database lock
2) Randomization ratio of 2:1 deviated from the ratio of 1:1 as per protocol
3) Undisclosed dose level

GMT: Geometric mean titers
QIV: Quadrivalent influenza vaccine (licensed flu comparator vaccine), 2021-22 northern hemisphere strain composition. FDA/EMA approved.

Influenza: Flu-SV-mRNA Immune Responses Against H1N1 in Older Adults[1)]

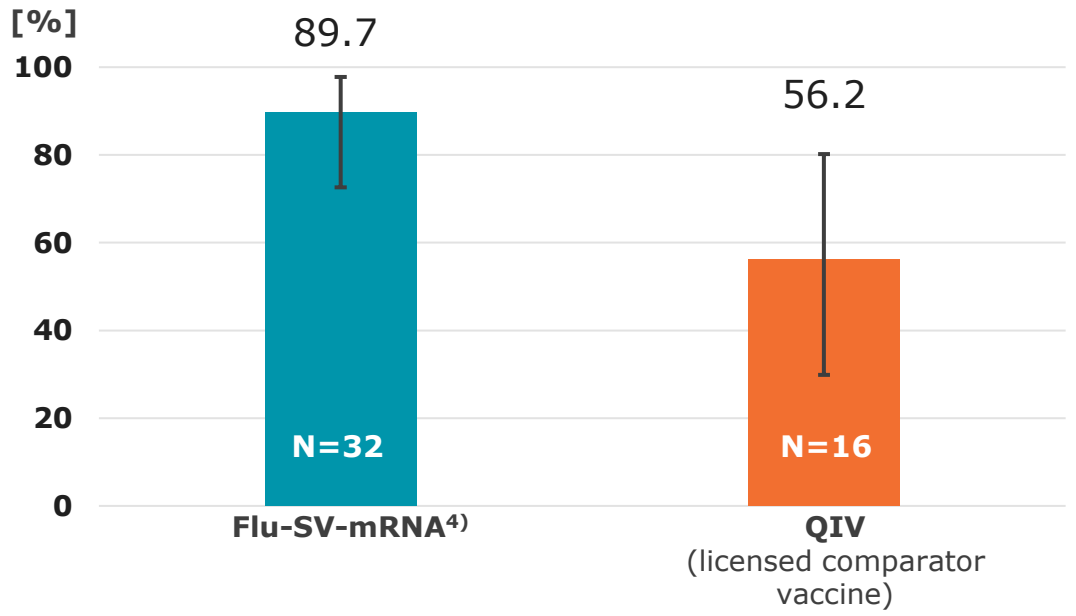
Serum **HI GMT** per dose on day 21[2)]

Older adults (60-80 years)



Seroconversion rates[2,3)]

Older adults (60-80 years)



Flu-SV-mRNA at least in line with licensed comparator in older adults

1) Preliminary data prior to database lock
2) Randomization ratio of 2:1 deviated from the ratio of 1:1 as per protocol
3) Seroconversion: percentage of participants with:
a) pre-dose HI titer <1:10 and post-dose titer ≥1:40 or
b) pre-dose titer ≥1:10 and post-dose titer at least 4x pre-dose titer
4) Undisclosed dose level

GMT: Geometric mean titers
QIV: Quadrivalent influenza vaccine (licensed flu comparator vaccine), 2021-22 northern hemisphere strain composition. FDA/EMA approved.

Key Messages and Next Steps

- Extended preliminary clinical data in older adults continue to provide **strong validation** of CureVac's proprietary technology platform in prophylactic vaccines
- CureVac and GSK **reaffirm continued clinical development** in COVID-19 and flu in 2023 according to state-of-the-art formats and tailored toward **public health needs**
- **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 plant**
- 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
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