CureVac Announces Promising Phase 2 Interim Data from Seasonal Influenza Vaccine Development Program in Collaboration with GSK

- Seasonal flu vaccine candidate boosted antibody titers at all dose levels and for all encoded seasonal influenza strains across younger and older adults
- Potentially differentiated, multivalent candidate encodes antigens matched to all four WHO-recommended flu strains
- For influenza A strains, geometric mean titers numerically exceeded those elicited by the licensed comparator vaccines consistently across all tested dose levels and age groups
- For influenza B strains, geometric mean titers were lower than those elicited by the licensed comparator vaccines, in line with expectations and other initial mRNA-based clinical flu development programs
- Further optimizations to enhance immune responses against influenza B strains will be tested in additional Phase 2 study
- Candidate showed acceptable safety profile, confirming previous findings that the proprietary platform elicits strong overall antibody titers at well-tolerated dose levels

TÜBINGEN, Germany/BOSTON, USA – April 4, 2024 – CureVac N.V. (Nasdaq: CVAC) ("CureVac"), a global biopharmaceutical company developing a new class of transformative medicines based on messenger ribonucleic acid ("mRNA"), today announced interim data from an ongoing Phase 2 part of the combined Phase 1/2 study of its seasonal influenza vaccine candidate, conducted in collaboration with GSK. The multivalent candidate was selected from a comprehensive Phase 1 part, which tested vaccine candidates with up to eight separate mRNA constructs per candidate. It was designed for broad antigen coverage, encoding antigens matched to all four WHO-recommended flu strains.

Results from the planned interim analysis showed that the multivalent vaccine candidate using CureVac's proprietary second-generation mRNA backbone boosted antibody titers against all encoded flu strains and across all age groups and tested dose levels, including the lowest tested dose. The vaccine candidate was shown to have an acceptable safety and tolerability profile, with the majority of solicited adverse events reported as either grade 1 (mild) or grade 2 (moderate) within seven days of dosing. The results confirm previous findings that the platform elicits strong overall antibody titers at well-tolerated dose levels.

Among younger and older adults, geometric mean titers generated by the vaccine candidate against influenza A strains numerically exceeded the geometric mean titers of the licensed comparator vaccines consistently across all tested dose levels. For influenza B strains geometric mean titers were lower than those elicited by the licensed comparator vaccines across both age groups and tested dose levels. Targeted optimizations to further improve immune responses against influenza B strains will be tested in an additional Phase 2 study.

"The Phase 2 interim data show that CureVac's highly effective and flexible mRNA technology platform puts us on the right track to advance our joint seasonal influenza vaccine program," said Dr. Myriam Mendila, Chief Development Officer of CureVac. "Results regarding influenza A strains were strong. Immunogenicity for B strains was in line with our expectations also in view of other initial mRNA-based clinical flu development programs. We are confident that planned optimizations will improve performance against these historically challenging influenza strains."

The Phase 2 dose-confirmation study assesses the reactogenicity, safety, and immunogenicity of different dose levels of a modified, multivalent vaccine candidate, encoding antigens matched to all four WHO-recommended flu strains. Reactogenicity, safety, and immunogenicity were assessed in 480 healthy younger adults aged 18 to 64 and 480 healthy older adults aged 65 to 85. In each age group, three different dose levels were tested in comparison to an age-appropriate, licensed comparator vaccine. For younger adults, immune responses were compared to a standard dose seasonal vaccine. For older adults, immune responses were compared to a high dose seasonal flu vaccine.

About CureVac

CureVac (Nasdaq: CVAC) is a global biopharmaceutical company in the field of messenger RNA (mRNA) technology, with more than 20 years of expertise in developing, optimizing, and manufacturing this versatile biological molecule for medical purposes. The principle of CureVac's proprietary technology is the use of optimized mRNA as a data carrier to instruct the human body to produce its own proteins capable of fighting a broad range of diseases. In July 2020, CureVac entered in a collaboration with GSK to jointly develop new products in prophylactic vaccines for infectious diseases based on CureVac's second-generation mRNA technology. This collaboration was later extended to the development of second-generation COVID-19 vaccine candidates, and modified mRNA vaccine technologies. Based on its proprietary technology, CureVac has built a deep clinical pipeline across the areas of prophylactic vaccines, cancer therapies, antibody therapies, and the treatment of rare diseases. CureVac N.V. has its headquarters in Tübingen, Germany, and has more than 1,100 employees across its sites in Germany, the Netherlands, Belgium, Switzerland, and the U.S. Further information can be found at www.curevac.com.

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Forward-Looking Statements CureVac

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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.