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ASIA EDITION

Nasal COVID-19 vaccine stored in NEST Disposable Intranasal Atomisation Device receives EUA in China

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Atomising device for drug administration squirts solution preparations into atomised particles onto the surface of human body



On December 2nd, a nasal spray COVID-19 vaccine, VectorFlu ONE, was approved for emergency use (EU) by the national authorities in the Chinese mainland. The vaccine has been jointly developed by Hong Kong University, Xiamen University and Wantai Biopharmaceutical Company. It is reported to be the first COVID-19 vaccine in the world in the phase of clinical trials with proven safety and broad-spectrum efficacy in phase III clinical trials to date.

The University of Hong Kong has revealed that Wantai plans to produce 200 million doses of the vaccine in the next six months.

The nasal spray vaccine was developed by inserting a receptor binding domain (RBD) fragment of spike protein of coronaviruses into the vector of double attenuated Influenza A Virus, which has been specially modified to improve safety and efficacy.

As the study reveals, the nasal spray provides broad-spectrum protection, largely unaffected by virus antibody escape mutations. It prompts the equivalent protective immune response to the prototype strain or the major variants, including the Omicron BF.7, XBB and BQ.1.1 variants.

In addition, the nasal spray vaccine also has the virtue of simplicity due to the powerful support of NEST Pre-filled Disposable Intranasal Atomisation Device. It is an atomising device for drug administration, which squirts solution preparations into atomised particles onto the surface of human body. It provides a painless and rapid absorption medication delivery option with maximised efficacy owing to the full contact.

This is not the first time that the product of Wuxi NEST Biotechnology was adopted by drug or vaccine developers and gained recognition from the market. The nasal spay Influenza vaccine from BCHT also deploys the very intranasal atomisation device.

Besides pharmaceutical packaging, NEST is dedicated to medical consumables, medical apparatus and equipment, with a global reputation for its premium product quality.