

NEWS RELEASE



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Submission of New Drug Application for NS-065/NCNP-01 (viltolarsen) in Japan

Nippon Shinyaku Co., Ltd. (Nippon Shinyaku; Headquarters, Kyoto; President, Shigenobu Maekawa) today announced that it submitted the New Drug Application (NDA) for NS-065/NCNP-01 (generic name: viltolarsen) in Japan, which is under development for an expected indication of Duchenne muscular dystrophy (DMD) to the Ministry of Health, Labor and Welfare (MHLW)

DMD is an inherited muscle disorder that male children develop. It causes a loss of muscle power due to a deficiency of normal dystrophin, a protein involved in constructing the framework of muscle cells. Because there is no effective treatment for DMD other than steroids, the development of an effective new treatment is desired. Viltolarsen is a drug candidate which is expected to generate a partially functional dystrophin protein and be effective for DMD amenable to dystrophin exon 53 skipping.

Viltolarsen was registered as "SAKIGAKE designation" of MHLW in October, 2015 and "Orphan drug designation" on August 20th in this year.

Nippon Shinyaku has been working actively having a sense of mission to develop agents for the treatment of intractable and rare diseases, and aiming at providing medicine for DMD patients as soon as possible.

< NS-065/NCNP-01 (viltolarsen)>

NS-065/NCNP-01 is a morpholino antisense oligonucleotide, which was co-discovered by Nippon Shinyaku and National Center of Neurology and Psychiatry (NCNP: Kodaira City, Tokyo; President, Hidehiro Mizusawa, Executive Director, Shin'ichi Takeda). A phase 1/2 study and phase 2 study was carried out in Japan and the US respectively. The clinical study in the US was conducted by NS Pharma, Inc. (Headquarters, New Jersey, US; President, Tsugio Tanaka) which is a subsidiary of Nippon Shinyaku and initiated a rolling submission of NDA to FDA. Viltolarsen was granted Fast Track designation, Orphan Disease designation, and Rare Pediatric Orphan designation by US FDA.

<SAKIGAKE designation> (Japanese version of Breakthrough Therapy designation)

The designation is to promote R&D in Japan aiming at early practical application for world's first, domestically-produced and innovative pharmaceutical products for serious and life-threatening diseases. This is aiming to shorten reviewing time for approval, facilitating a prioritized consultation and review for regulatory approval.

<Orphan Disease designation>

Orphan drug is defined as the medicine of which medical needs are particularly high for a disease of which patient number is less than 50,000 in Japan.

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