



## Vanda Pharmaceuticals Receives FDA Approval to Proceed with Investigational New Drug VCA-894A, a Novel Antisense Oligonucleotide Candidate for the Treatment of Charcot-Marie-Tooth Disease, Type 2S

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WASHINGTON, Jan. 23, 2024 /PRNewswire/ -- Vanda Pharmaceuticals Inc. (Vanda) (Nasdaq: Vnda) today announced that the U.S. Food and Drug Administration (FDA) has approved the Investigational New Drug (IND) application to evaluate VCA-894A for the treatment of a patient with Charcot-Marie-Tooth disease, axonal, type 2S (CMT2S), caused by cryptic splice site variants within the IGHMBP2 gene.

CMT2S is a rare subtype of Charcot-Marie-Tooth disease (CMT), an inherited peripheral neuropathy for which there is no available treatment. CMT2S is characterized by slowly progressive distal muscle weakness and atrophy, affecting the upper and lower limbs in a child's first decade of life, leaving patients with decreased reflexes and sensory impairment<sup>1,2</sup> The estimated overall prevalence of CMT is 1 in 2,500 individuals, with varying clinical features dependent on the various genetic variants of CMT.<sup>1,2</sup> The prevalence of the CMT2S variant is estimated to be less than 1 in 1,000,000 worldwide.<sup>3</sup>

"This is an important milestone in the pursuit of personalized medicine, which has the potential to enable the development of treatments tailored to one's genetic variants, in this case specifically for a patient with CMT2S causing genetic mutations," said Mihael H. Polymeropoulos, M.D., Vanda's President, CEO and Chairman of the Board.

VCA-894A is a novel antisense oligonucleotide (ASO) with a mechanism of action that specifically targets a cryptic splice site variant within immunoglobulin mu-binding protein 2 (IGHMBP2). Mutations within IGHMBP2 play a pivotal role in the manifestation of CMT2S, likely due to alpha-motor neuron loss, and consequently peripheral nervous system deterioration.<sup>4</sup> ASOs have the capacity to modulate gene expression, allowing for the personalized treatment of rare diseases. Delivery of ASOs to the central nervous system has been previously successful in several ASO programs, with a broad applicability in addressing a number of neurodegenerative and neuromuscular disorders.<sup>5</sup>

### References

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2. Nam, S. H., & Choi, B-O. (2019). Clinical and genetic aspects of Charcot-Marie-Tooth disease subtypes." *Precision and Future Medicine*, 3(2), 43–68. <https://doi.org/10.23838/pfm.2018.00163>
3. (2023). *Charcot-Marie-Tooth disease type 2S*. *Orpha.net*. [https://www.orpha.net/consor/cgi-bin/OC\\_Exp.php?lng=EN&Expert=443073](https://www.orpha.net/consor/cgi-bin/OC_Exp.php?lng=EN&Expert=443073)
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5. Crooke, S. T., Liang, X. H., Baker, B. F., & Crooke, R. M. (2021). Antisense technology: A review. *The Journal of biological chemistry*, 296, 100416. <https://doi.org/10.1016/j.jbc.2021.100416>

### About Vanda Pharmaceuticals Inc.

Vanda is a leading global biopharmaceutical company focused on the development and commercialization of innovative therapies to address high unmet medical needs and improve the lives of patients. For more on Vanda Pharmaceuticals Inc., please visit [www.vandapharma.com](http://www.vandapharma.com) and follow us on Twitter @vandapharma.

### About VCA-894A

VCA-894A is a 2'-O-methoxyethyl (MOE) phosphorothioate oligonucleotide sodium salt. VCA-894A specifically targets a cryptic splice site variant within IGHMBP2, which causes CMT2S. ASOs may have broad applicability in addressing a number of disorders, from nervous system treatments to systemic treatments.

### CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS


Various statements in this press release, including, but not limited to statements regarding the estimated prevalence of CMT and CMT2S and the development of individualized treatments, are "forward-looking statements" under the securities laws. Forward-looking statements are based upon current expectations that involve risks, changes in circumstances, assumptions and uncertainties. Important factors that could cause actual results to differ materially from those reflected in Vanda's forward-looking statements include, among others, the accuracy of the reporting and diagnosis of CMT and CMT2S cases and the ability to successfully complete the clinical development of, and obtain regulatory approval for, VCA-894A in the treatment of CMT2S. Therefore, no assurance can be given that the results or developments anticipated by Vanda will be realized or, even if substantially realized, that they will have the expected consequences to, or effects on, Vanda. Forward-looking statements in this press release should be evaluated together with the various risks and uncertainties that affect Vanda's business and market, particularly those identified in the "Cautionary Note Regarding Forward-Looking Statements", "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" sections of Vanda's most recent Annual Report on Form 10-K, as updated by Vanda's subsequent Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and other filings with the U.S. Securities and Exchange Commission, which are available at [www.sec.gov](http://www.sec.gov).

All written and verbal forward-looking statements attributable to Vanda or any person acting on its behalf are expressly qualified in their entirety by the cautionary statements contained or referred to herein. Vanda cautions investors not to rely too heavily on the forward-looking statements Vanda makes or that are made on its behalf. The information in this press release is provided only as of the date of this press release, and Vanda undertakes no obligation, and specifically declines any obligation, to update or revise publicly any forward-looking statements, whether as a result of new

information, future events or otherwise, except as required by law.

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