

Press Release

Importance of Smallpox Vaccination Highlighted in Biopreparedness Exercise

 Conclusions from a tabletop exercise in Australia, simulating a smallpox outbreak in the Asia-Pacific, highlighted vaccination as a key preparedness parameter to prevent a pandemic and limit the outbreak consequences

As a leading biodefense company, Bavarian Nordic, via similar exercises, regularly assists governments in planning and revising their national preparedness plans. However, such preparedness plans cannot stand alone, but relies on joint regional and global coordination efforts when facing challenges arising from any outbreak of diseases that know no borders. The simulated Fiji outbreak not only highlighted global risks, such as the vulnerability of the population, the majority of which has not been vaccinated, but also regional challenges where extensive travelling, high population density, and weak health systems are factors that make it difficult to contain an outbreak of an airborne, highly infectious and lethal diseases, such as smallpox. While the exercise concluded that the speed and effectiveness of a coordinated response were critical parameters, the availability of a safe vaccine and possibility for rapid deployment were crucial to succeed.

Details and conclusions from the tabletop exercise are available in a press release, issued by UNSW Sydney today: https://kirby.unsw.edu.au/news/are-we-prepared-bioterrorism-threats-researchers-front-line-responders-and-policy-makers-gather

For more than 15 years, Bavarian Nordic has been collaborating with the U.S. Government on the development of IMVAMUNE®, a next-generation smallpox vaccine, suitable for vulnerable populations, and has to-date delivered 28 million doses of the vaccine to the U.S. Strategic National Stockpile (SNS) for emergency use. The vaccine was approved in EU in 2013 for use in the general population, and later the same year in Canada for emergency use in adults with compromised immune systems, who are not recommended vaccination with replicating smallpox vaccines.

Recently, the Company reported <u>positive results</u> from a pivotal registration study, comparing IMVAMUNE to the current U.S. licensed smallpox vaccine, ACAM2000®. The study showed that IMVAMUNE induced statistically superior immune responses, which were 2-fold higher for IMVAMUNE than those stimulated by ACAM2000. This raises the potential of using a single vaccination with IMVAMUNE in outbreak situations.

The Company expects to submit a Biologics License Application for the liquid-frozen formulation of the vaccine to the U.S Food and Drug Administration (FDA), which if approved, could lead to licensure in the U.S. in 2019. Meanwhile, a registration study will be initiated with the freeze-dried formulation in the U.S., which over time will replace and expand the current U.S. stockpile. Eventually, regulatory approval will also be sought in the Asia-Pacific region.

"Like others before, this recent exercise highlights the gaps in the global community to tackle situations, which could have devastating consequences for years and decades," said Paul Chaplin, President and CEO of Bavarian Nordic. "Overcoming these gaps to ensure a proper preparedness is possible, but requires a long-term commitment on national and supranational levels as well as collaborative efforts through public-private partnerships to make safe and effective countermeasures available. As industry partner, we are happy to Page 1 of 2

Bavarian Nordic A/S

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contribute to these efforts. The favorable safety profile of our IMVAMUNE smallpox vaccine and the recent positive results from the pivotal registration study have confirmed its potential in outbreak situations, suitable for the protection of the entire population, including those with compromised immune systems."

About Bavarian Nordic

Bavarian Nordic (OMX: BAVA, OTC: BVNRY) is a fully integrated biotechnology company focused on the development of innovative and safe therapies against cancer and infectious diseases. Using our live virus vaccine platform technology, MVA-BN®, we have created a diverse portfolio of proprietary and partnered product candidates intended to improve the health and quality of life for children and adults. We supply our IMVAMUNE® non-replicating smallpox vaccine to the U.S. Strategic National Stockpile and other government stockpiles. The vaccine is approved in the European Union (under the trade name IMVANEX®) and in Canada. Registration studies are currently underway in the U.S. In addition to our long-standing collaboration with the U.S. government on the development of IMVAMUNE® and other medical countermeasures, our infectious disease pipeline comprises a proprietary RSV program as well as vaccine candidates for Ebola, HPV, HBV and HIV, which are developed through a strategic partnership with Janssen. Additionally, in collaboration with the National Cancer Institute, we have developed a portfolio of active cancer immunotherapies, designed to alter the disease course by eliciting a robust and broad anti-cancer immune response while maintaining a favorable risk-benefit profile. Through multiple industry collaborations, we seek to explore the potential synergies of combining our immunotherapies with other immune-modulating agents, e.g. checkpoint inhibitors. For more information visit www.bavarian-nordic.com or follow us on Twitter wbavarian-nordic.com or follow us on Twitter wbavarian-nordic.com or follow us on Twitter

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