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To: BLA STN 125741/0

Date: June 25, 2021

Subject: Rationale for designation of a nonproprietary name for Pneumococcal 15
Valent Conjugate Vaccine (Vaxneuvance) that does not include a
distinguishing suffix

Introduction:

Merck Sharp and Dohme Corp. has submitted a Biologics License Application for Pneumococcal 15 Valent Conjugate Vaccine (STN 125741/0, Action Due Date July 18, 2021). The proposed indication and usage statement from the draft package insert is as follows: “active immunization for the prevention of invasive disease caused by *Streptococcus pneumoniae* serotypes (1, 3, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F, 22F, 23F and 33F) in adults 18 years of age and older”.

This memorandum documents the justification for and my supervisory concurrence with the decision to depart from the recommendations in the Guidance for Industry: Nonproprietary Naming of Biological Products (January 2017) (“Naming Guidance”) in approving a non-proprietary name without a suffix for this product.¹

Summary:

I have concluded that the existing mechanisms to track this product are sufficient to ensure safety and pharmacovigilance and a suffix on the nonproprietary name is not necessary for the safe use of this vaccine.

The issue of whether to designate the nonproprietary names of vaccines without a distinguishing suffix was discussed with the FDA Biosimilar Policy Council on April 10, 2019.² The Council, including Dr. Marks and Dr. Woodcock, agreed with OVRP that a distinguishing suffix was not needed for vaccines and further recommended that if we designate a proper name without a distinguishing suffix for a vaccine, we should document this departure from the Naming Guidance. As Director of OVRP, I am the

¹ See 21 C.F.R. § 10.115(d)(3) (“Although guidance documents do not legally bind FDA, they represent the agency’s current thinking. Therefore, FDA employees may depart from guidance documents only with appropriate justification and supervisory concurrence.”).

² The FDA Biosimilar Policy Council is a cross-center workgroup within FDA that discusses issues regarding the implementation of the BPCI Act.

supervisor to OVR staff who reviewed this BLA. This memo documents my concurrence with the decision to depart from the Naming Guidance.

The fundamental question for this memo is whether the inclusion of the suffix in the proper name for Vaxneuvance is necessary for safe use, or whether other measures are in place to that are sufficient to ensure safe use and pharmacovigilance.

This memo describes unique vaccine administration recording requirements and safety monitoring programs for U.S.-licensed vaccines, including requirements for vaccines subject to the National Vaccine Compensation Injury Program. The totality of circumstances associated with the administration of vaccines, including the unique recordkeeping requirements, monitoring systems, and public health considerations, supports the review team recommendation and my decision to depart from the Naming Guidance and to designate a proper name without a distinguishing suffix for this vaccine.

1. Vaccination Records

Unique recordkeeping requirements associated with the administration of vaccines in the U.S., including those associated with the National Childhood Vaccine Injury Act and Immunization Information Systems, provide for the identification of most vaccines by their manufacturer (and potentially by lot number), without the need for a distinguishable suffix.

National Childhood Vaccine Injury Act: Most US-licensed vaccines are subject to The National Childhood Vaccine Injury Act of 1986. Covered vaccines are those recommended for routine administration to children or pregnant women by the CDC, subject to an excise tax by federal law and added to the Vaccine Injury Compensation Table by the Secretary for HHS.³

For vaccines included in the “Vaccine Injury Table” (which include most of the US-licensed vaccines) there are additional recordkeeping requirements that permit the identification of the vaccine administered without a suffix. For those vaccines included in the “Vaccine Injury Table” the National Childhood Vaccine Injury Act of 1986 requires each healthcare provider (HCP) who administers a vaccine included in the “Vaccine Injury Table” to record in the vaccinee’s permanent medical record 1) the date of administration of the vaccine, 2) the vaccine manufacturer and lot number, and 3) the name and address and, if appropriate the title of the HCP administering the vaccine.⁴

³ Covered vaccines: Diphtheria, Tetanus, Pertussis, *Haemophilus influenzae* type b, Hepatitis A, Hepatitis B, Human papillomavirus, Seasonal Influenza, Measles, Mumps, and Rubella, Meningococcal, Pneumococcal conjugate, Polio, Rotavirus, and Varicella, in any combination.

⁴ <https://www.hrsa.gov/sites/default/files/hrsa/vaccine-compensation/vaccine-injury-table.pdf>

This requirement is unique for vaccines. This Act applies to any vaccine for which there is a routine recommendation for childhood vaccination, even if many or most doses of the vaccine are administered to adults (e.g., influenza vaccine).

For those vaccines that are not included on the Vaccine Injury Table, the Advisory Committee on Immunization Practices recommends that “This information should be kept for all vaccines, not just for those required by the Act.”(

<https://www.cdc.gov/vaccines/hcp/acip-recs/general-recs/records.html>).

Immunization Information Systems: Unlike records associated with other drugs or biologics, vaccination records are required for childcare, school, summer camps and international travel. These records are retained by the clinic or HCP office in a patient's chart. To facilitate retrieval of records, all states have an Immunization Information System (IIS). IIS are centralized population-based repositories of immunization related information. They receive and share data on individual clients/patients with a number of other systems, including Electronic Health Record systems (EHR-S). One of the goals of the IIS is to promote vaccine safety in public and private provider settings and enable the identification of vaccine recipients by vaccine lot, manufacturer, provider, and/or time frame – consistent with the NCVIA of 1986 but not limited to vaccines subject to the Act.

Participation in IIS is widespread and supported by the federal government. One of the national Healthy People objectives for 2020 was 95% participation of children aged <6 years in a fully operational population-based IIS (participating in an IIS means having two or more vaccinations recorded in the IIS). IIS data from 2012 indicate that approximately 86% of children aged <6 years with two or more vaccinations were participating in IISs (CDC. Progress in immunization information systems – United States, 2012. *MMWR Morb Mortal Wkly Rep.* 2013;62(49):1005-1008. Mangione-Smith R, DeCristofaro AH, Setodji CM, et al. The quality of ambulatory care delivered to children in the United States. *N Engl J Med.* 2007;357(15):1515-1523. DOI: 10.1056/NEJMsa064637). From 2013 to 2016 the percentage of children with ≥ 2 immunizations recorded in IISs increased from 90% to 94%, approaching the *Healthy People 2020* objective of $\geq 95\%$. (CDC. Progress in childhood vaccination data in immunization information systems – United States, 2013-2016. *MMWR Morb Mortal Wkly Rep.* 2017;66(43):1178-1181).

Nationally, 57.8 million U.S. adults aged 19 years or older participated in an IIS in 2012 (CDC. Progress in immunization information systems – United States, 2012. *MMWR Morb Mortal Wkly Rep.* 2013;62(49):1005-1008.). This number reflects adults who may have had childhood vaccines entered during childhood and now have aged to adults. In 2013, 32% of U.S. adults had a record in the IIS and at least one vaccination administered during adulthood.

The National Vaccine Advisory Committee (established to comply with Section 2105 of the Public Health Service Act) recommends that public health departments work toward including adults in all state IISs, reduce barriers to including adult vaccination records in IISs, and ensure that IISs meet new standards of EHR interoperability to track and maintain adult vaccination records.

For vaccines administered to the military each branch records and tracks immunizations (<https://www.health.mil/Military-Health-Topics/Health-Readiness/Immunization-Healthcare/Immunization-Tracking-Systems>).

2. Vaccine Safety Monitoring Systems

The Vaccine Adverse Reporting System: VAERS is a national program managed by the FDA and CDC to monitor the safety of all vaccines licensed for use in the US. FDA and CDC conduct safety surveillance for vaccine-associated safety concerns utilizing VAERS. This system is valuable for signal detection, and it has unique characteristics that differentiate it from other adverse event surveillance systems. As a preliminary matter, in addition to mandatory reporting of adverse events by manufacturers that is common to all drugs and biologics, for vaccines covered by the National Childhood Vaccine Injury Act, there is mandatory reporting for healthcare providers for any event listed by the vaccine manufacturer as a contraindication to subsequent doses of the vaccine and any adverse event found in the “Reportable Events table” that occurs within the specified time after vaccination.

The form that is used for VAERS, which mirrors the information required to be collected under the NCVIA, further permits the accurate identification of the event and the vaccine administered. VAERS requires the vaccine name (“type and brand name”), manufacturer, and lot number. The form permits the user to enter the vaccine type/brand name manually or to select a specific vaccine identified by abbreviation/disease and proprietary name from a “pick list.” (https://vaers.hhs.gov/pdf/VAERSForm_Mar2021.pdf). While it may be possible for the FAERS system that covers other biologics and drugs to adopt a similar format, at this time, this format is unique to VAERS and is permitted, in part, because of the limited scope of products covered by the reporting system.

The Vaccine Safety Datalink: The Vaccine Safety Datalink (VSD) project is a collaboration between the National Immunization Program of the CDC and several HMOs. The project began in 1990 with the purpose of rigorously evaluating concerns about the safety of vaccines. According to the CDC, the VSD generates rapid, important safety assessments for both routine vaccinations and emergency vaccination campaigns.⁵ To accomplish this, the VSD uses electronic health data from each participating site that includes information on vaccine type, vaccine manufacturer,

⁵ Vaccine 32 (2014) 5390–5398

vaccine lot number, date of vaccination, and other vaccinations given on the same day. Participating healthcare organizations cover more than 9.1 million people nationwide (over 3% of the US population).

3. Additional considerations for vaccines:

The four-letter suffix will likely be interpreted by some individuals to refer to an unintended and non-specific attribute to the product. Some individuals may believe this refers to an unidentified ingredient, a new adjuvant or an abbreviation for a chemical. This may cause confusion and concern regarding the safety of the vaccine. This confusion is particularly concerning given increased public concerns about the safety of vaccination and rising levels of refusals to vaccinate. Decreased confidence in vaccine safety does not just affect the health of patients who refuse to vaccinate, as is the case with decreased confidence in therapeutic biologic products. Confusion surrounding vaccine safety could undermine the effectiveness of the vaccine program overall and, ultimately, lead to negative public health effects, including outbreaks of preventable diseases.