

State of Montana DPHHS HAN ADVISORY

Distributed via the DPHHS Health Alert Network (HAN) System

Wednesday, March 18, 2009 3:24 PM

DPHHS Health Alert Hotline 1-800-701-5769

Visit the DPHHS Health Alert Network Website at www.han.mt.gov

DPHHS Contact Information: Contact the State Immunization Program at 444-5580 for more information.

DPHHS recommends you do forward this HAN message on to your local HAN contacts.

DPHHS Recommendations: The Immunization Section at DPHHS has the following recommendations concerning the CDC Advisory information.

Invasive Haemophilus influenzae Type B Disease in Young Children and Importance for All Young Children to Receive 3 Dose Primary Series with Available Hib-containing Vaccine

- Please note for the 1st bullet point below in the CDC Advisory, the need for a booster dose of Hib vaccine applies only to children at least 6 weeks to less than 12 months of age who complete the primary series prior to turning one year of age. If the primary series is not completed by 12 months of age, then the additional bullet points apply.
- The Montana Immunization Program has developed a chart to assist clinics in determining the needed Hib doses. It can be found at <http://www.dphhs.mt.gov/PHSD/Immunization/documents/HibSchedule12-59Months.pdf>.
- Clinics who submit data to WIZRD, Montana's statewide immunization information system, may have the ability to extract data on children in their clinic with missing Hib doses. Please contact your local county health department or the State Immunization Program at 444-5580.

The goal of Montana's Health Alert Network is to transmit information to local public health authorities as quickly as possible, and assign a suitable priority to the message that is sensitive to the impact of a health-related event providing information relative to the public health and safety of Montanans. For questions or comments relative to Montana's HAN system you may contact the DPHHS HAN Coordinator, Gerry Wheat at <mailto:gwheat@mt.gov>

Categories of Health Alert messages:

Health Alert: conveys the highest level of importance; warrants immediate action or attention.

Health Advisory: provides important information for a specific incident or situation; may not require immediate action.

Health Update: provides updated information regarding an incident or situation; unlikely to require immediate action.

You have received this message based upon the information contained within our emergency notification data base. If you have a different or additional e-mail or fax address that you would like us to use please notify us as soon as possible by e-mail at hhshan@mt.gov <mailto:hhshan@mt.gov>

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This is an official

CDC Health Advisory

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March 18, 2009 15:00 EST (03:00PM EST)
CDCHAN-00281-09-03-18-ADV-N

Invasive *Haemophilus influenzae* Type B Disease in Young Children and Importance for All Young Children to Receive 3 Dose Primary Series with Available Hib-containing Vaccine

Background of the Hib Vaccine Shortage

Health care providers must be vigilant about ensuring that all young children are appropriately vaccinated with the 3 dose primary series of Hib (*Haemophilus influenzae* type b) vaccine. A nationwide shortage of Hib vaccine began in December 2007 and is ongoing. The recall of certain lots of the two Hib-containing vaccines produced by Merck & Co., Inc. and cessation of production of both vaccines has left only one manufacturer of Hib vaccine in the United States (sanofi pasteur). The shortage resulted in a recommendation by CDC to defer the Hib booster (routinely recommended at 12 through 15 months) for children who are NOT at high risk of Hib infection temporarily, until supplies are restored. This recommendation is still in effect.

Temporary deferral of the booster dose at 12 through 15 months of age for non-high risk children may have resulted in increased Hib carriage and transmission in non-symptomatic children. There is potential to see increases in cases of Hib disease at the local level. During 2008 in Minnesota, five children aged 5 months through 3 years were reported with invasive Hib disease; one died. Three patients had received no vaccinations because of parent or guardian deferral or refusal. One child was aged 5 months and had received 2 doses of Hib PRP-TT vaccine in accordance with the primary series schedule. Another child had received 2 doses of Hib PRP-OMP vaccine, but no booster dose, per CDC recommendations during the shortage. Subsequent to Hib infection, this child was diagnosed with hypogammaglobulinemia. The five cases in 2008 were the most reported for 1 year from Minnesota since 1992, when 10 cases were reported.

There is enough Hib-containing vaccine for all U.S. children to receive the primary series. All children should complete the primary series by 7 months of age; high risk children should continue to receive the full primary series and the booster dose. Completion of the primary series with currently available vaccine products (manufactured by sanofi pasteur) requires a total of 3 doses of Hib-containing vaccine (2, 4, and 6 months). Although there is enough Hib-containing vaccine nationally to support these recommendations, there may be times when practitioners do not have an adequate supply of vaccine to meet local demand. If Hib vaccine is not available in the office at the time of a visit, children who are unable to receive one of the primary series doses should be tracked and recalled to schedule an appointment to receive their dose as soon as vaccine becomes available in the office.

In addition, using available Hib-containing vaccines has presented challenges associated with switching from the Merck to sanofi products for some providers.

There are indications that these challenges have led to lower completion of the primary series. Preliminary information comes from sentinel immunization information systems (registries) in select states, which have indicated up to 10% lower coverage with the third Hib dose in the primary series compared to other vaccines (DTaP, PCV7) commonly administered

at the same visit. In the scenario of booster dose deferral, it is even more important that all infants receive the complete primary series.

Specifically, some of the challenges in using the currently available Hib-containing vaccines have included provider reluctance to switch inventory and schedules, misunderstanding regarding what constitutes primary versus booster doses, determining a catch-up schedule in the setting of the deferred booster, and provider and parent concerns about over vaccination resulting from switching to the sanofi pasteur Hib-containing vaccine. Despite these challenges, health care providers need to ensure that all children are appropriately vaccinated with the primary series. For example, if Pentacel (DTaP-IPV/Hib) is the only Hib-containing vaccine available, this combination product should be used to complete the primary series, even if doing so results in receipt of additional doses of other antigens (e.g., DTaP, IPV). The Hib-containing vaccine products that are available may not be what providers used previously in their practice; however, the potential for increased transmission of Hib makes it more important than ever that every child is adequately protected.

Recommendations

The following non-high risk children should be scheduled to receive the primary series of Hib vaccine as outlined below:

- If the child is at least 6 weeks but less than 12 months of age and has received zero, one, or two doses of Hib vaccine, schedule him/her for the first or next dose(s) immediately with a minimum of four weeks between the doses. These children will need one booster dose when the Hib vaccine shortage is over.
- If the child is between 12 and 14 months of age and has not had any doses of Hib vaccine, schedule appointments for two doses, eight weeks apart.
- If the child is between 12 and 14 months of age and has received Hib vaccine but did not complete the primary series before they turned 1 year old (i.e., had 1 dose of the Merck product OR 1-2 doses of the sanofi product), schedule an appointment for 1 additional dose, a minimum of eight weeks from the last dose.
- If the child is at least 15 months of age but less than 5 years of age and has not received any doses of Hib vaccine OR has not completed the primary series (i.e., had 1 dose of the Merck product OR 1-2 doses of the sanofi product), schedule an appointment for one dose.
- If the child is 5 years old or older and hasn't received any Hib vaccine, Hib vaccine is not necessary.

Certain children are at increased risk for Hib disease, including children with asplenia, sickle cell disease, human immunodeficiency virus infection and certain other immunodeficiency syndromes, and malignant neoplasms. CDC recommends that providers continue to vaccinate these children with available Hib conjugate vaccines according to the routinely recommended schedules, including the 12 through 15 month booster dose. Providers who serve predominantly American Indian/Alaska Native (AI/AN) children living in AI/AN communities should continue to stock and use PRP-OMP–containing Hib vaccines (Merck product) and vaccinate according to the routinely recommended schedule, which includes the 2-dose primary series (ages 2 and 4 months) and a 12 through 15 month booster dose. This product is available from the VFC Pediatric Vaccine Stockpile, through their state immunization programs.

For more information about Hib disease and vaccination contact your state or local public health official or CDC at 1-800-232-4636/1-800-CDC-INFO or by email at www.cdc.gov/vaccines/about/contact/nipinfo_contact_form.htm. Information about current vaccine shortages and delays can be found at <http://www.cdc.gov/vaccines/vac-gen/shortages/default.htm>.

Additional Sources of Information

CDC. Invasive *Haemophilus influenzae* Type B Disease in Five Young Children – Minnesota, 2008. MMWR 2009;58:1-3.

CDC. Continued shortage of *Haemophilus influenzae* Type B (Hib) Conjugate Vaccines and Potential Implications for Hib Surveillance – United States, 2008. MMWR 2008;57(46):1252-1255.

CDC. Interim recommendations for the Use of *Haemophilus influenzae* Type B (Hib) Conjugate Vaccines Related to the Recall of Certain Lots of Hib-containing Vaccines (PedvaxHIB and Comvax). MMWR 2007; 56(50):1318-1320.

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##This Message was distributed to State and Local Health Officers, Epidemiologists, State Laboratory Directors, PHEP Coordinators, HAN Coordinators and Public Information Officers as well as Public Health Associations and Clinician organizations##

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