Three Legionellosis webinars are conducted as part of the Water, Sanitation, and Hygiene (WASH) webinar series. A partnership between DBD and the Waterborne Disease Prevention Branch, this three-part series focuses on outbreak investigation, detailing the major steps in investigating a Legionellosis outbreak. An estimated 300 professionals in state and local public health departments in 36 states participate in the webinars.

New Group B strep prevention guidelines are published by DBD, replacing the 2002 guidelines. These 2010 guidelines were developed using an evidence-based approach in collaboration with several professional associations. New resources and a website are launched at www.cdc.gov/groupbStrep. Refer to the November 19 issue of MMWR for more details.

An External Review of DBD’s Vaccinology Laboratories is held in October. Nationally recognized vaccinology experts make recommendations for future operational activities.

The 3rd annual Get Smart About Antibiotics Week is held in November. CDC is a lead partner for coordinating this global activity. November 18 marks the first year of international collaboration, coinciding with European Antibiotic Awareness Day and an observance day in Canada.

DBD responds to pertussis outbreaks across the country with Epi-AIDS in California, Minnesota and Ohio. In California, multiple teams of CDC staff collect patient data by visiting healthcare provider offices. In Minnesota, a team collects vaccine history and creates a massive database to analyze; DBD statisticians are integrally involved. In Ohio, the CDC team works with the state and local health departments to better understand the outbreak.

In 2010, DBD initiates case-based surveillance for laboratory-confirmed meningitis and completes enrollment of 25,000 subjects for the meningococcal carriage study in Burkina Faso.

Tdap and meningococcal conjugate vaccine recommendations are updated by ACP. It is now recommended that adults 65 years and older can receive Tdap, especially if around young infants; there is no recommended minimum interval between Tdap and last Td; and 7 to 9 year olds can get Tdap if not up-to-date. It is now recommended that adolescents who receive a dose of the meningococcal conjugate vaccine at age 11 or 12 years should get a booster dose at age 16 years. Final policy notes are on track to be published in MMWR in December.

New Legionella photo exhibition is on display at the CDC Public Health Library and Information Center during November.

Photo: Rana Hajjeh, MD and Marsha Houston with PneumoniaFighters! in Washington, DC on World Pneumonia Day. PneumoniaFighters! distributed information at metro transit stations throughout Washington, DC, in Geneva, Switzerland and at CDC to call public attention to the need to prevent this disease that claims the lives of 1.6 million children younger than age 5 every year. CDC is a lead partner for coordinating this global activity.

PedvaxHIB® is fully available again in the U.S. for routine vaccination after a nationwide shortage. During the shortage, Division of Bacterial Diseases (DBD) staff closely monitor for increased cases of Hib disease and make temporary vaccine recommendations.

The meningococcal conjugate vaccine, Menveo®, is licensed by FDA on February 22. DBD staff contributed data and expertise to the first meningococcal conjugate vaccine recommendations in 2005, which Menveo® will follow. See the March 12 issue of MMWR for more details.

The 13-valent pneumococcal conjugate vaccine (PCV13) is licensed by FDA on February 24. On that same day, the Advisory Committee on Immunization Practices (ACIP) votes to recommend PCV13. DBD staff contribute data and expertise to help shape the vaccine recommendations that ACIP discusses and votes on. Refer to the March 12 issue of MMWR for more details.

MenAfriVac™ (meningococcal serogroup A conjugate vaccine), manufactured by Serum Institute of India Ltd., receives formal approval on January 24 and is now being manufactured at scale. Priced at just US$ 0.40 per dose, MenAfriVac™ is expected to prevent 123,000 deaths over the next ten years across the meningitis belt. See SummerFall DBD Bulletin for more information.

With American Recovery and Reinvestment Act (Recovery Act) funds, the Association of Public Health Laboratories in collaboration with DBD, develops and conducts webinars on bacterial vaccine-preventable pathogens, including pertussis (454 participants) and pneumococcal (252 participants). This is followed up with a bacterial wet-lab training at CDC in October, hosted by DBD laboratories.

Legionella is proposed to be added to Active Bacterial Core surveillance (ABCs). Over the next few months, several ABCs sites agree to participate.

Photo: State and local health department workshop participants prepare and pipet samples, primers, and probes for PCR analysis in a biological safety cabinet in the CDC training laboratory during the wet-lab training.
Quarter 2

The 2nd annual World Meningitis Day takes place on April 24. On April 20, the Meningitis and Vaccine Preventable Diseases Branch is honored at the 2010 National Meningitis Association Gala, Give Kids a Shot! in New York City. The National Meningitis Association educates families, medical professionals and others about bacterial meningitis and prevention approaches to the disease.

The PCV13 vaccine efficacy study starts — supported with funding from the Recovery Act. This study will enroll patients with pneumococcal disease (who have received PCV13) caused by vaccine-preventable serotypes to determine the vaccine’s percent efficacy.

A pertussis epidemic is declared by the California Department of Public Health and DBD responds with multiple Epi-AIDS, ethnic media roundtables, a radio media tour, press interviews and other technical support. See Summer/Fall DBD Bulletin for more information.

A pilot test on the World Health Organization (WHO) assessment tool for invasive bacterial diseases is conducted by DBD staff in Latvia.

MenAfriVac™ is prequalified by WHO in June. Infant pre-licensure studies for which DBD is testing sera are on track for completion in 2011.

Photo: Amanda Faulkner records a voiceover for a “how to” video on specimen collection for pertussis testing, one of the new pertussis tools created in 2010.

Photo: Gloria Carvalho, PhD in a pre-assessment meeting with colleagues from the Infectology Center of Latvia, familiarizes them with the assessment tool for invasive bacterial diseases.

Relevant Major Events

DBD plays a key role in taking MenAfriVac™ from development to public health availability. The vaccine is introduced nationwide in Burkina Faso in December with introduction campaigns scheduled for Niger and Mali by the end of the year.

Bill and Melinda Gates announce a $10 billion 10 year commitment to help research, develop and deliver vaccines for the world’s poorest countries.

Quarter 3

Updated anthrax vaccine adsorbed (AVA) recommendations are published. DBD epidemiologists lead the Working Group. Laboratorians and statisticians contribute data and expertise, including implementing and analyzing the clinical trials to help shape the vaccine recommendations that ACIP discussed and voted on in 2009. See the July 23 issue of MMWR for more details.

The International Conference on Emerging Infectious Diseases is held July 11-14 in Atlanta. DBD’s director is the co-chair of the scientific committee and DBD’s associate director for science is a member of the committee. Many staff from DBD attend and present at the conference. See abstracts at www.iceid.org.

Pilot safety introduction campaigns of MenAfriVac™ are completed this fall and find no concerning safety signals. A team from DBD is on the ground in Burkina Faso for the official launch of the largest meningitis vaccine campaign in history.

Photo: While EIS Officer George Nelson is in Quetzaltenango, Guatemala, pharmacists use PDAs to complete surveys about antibiotic prescribing and dispensing practices. This project is aiming to decrease inappropriate antibiotic use throughout Guatemala.

Get Smart Goes Global: DBD introduces a program in Egypt and Guatemala. See the 2nd Quarter CDC Global Health E-Brief for more information.

The ANISA (Aetiology of Neonatal Sepsis in South Asia) study is funded by the Bill & Melinda Gates Foundation. Taking place in three countries in South Asia (Bangladesh, India and Pakistan) that account for more than a third of all neonatal deaths, DBD is a co-PI of the study that will improve neonatal survival in the region and beyond by describing aetiology of community acquired young infant infections, antibiotic sensitivity of bacterial pathogens, and risk factors for infection. Staff throughout NCIRD are involved in the study.

Photo: In Burkina Faso in December, a young boy receives MenAfriVac™, while others line up for their turn. By mid-December, 6 million people are vaccinated.

Photo: EIS Officer George Nelson is in Quetzaltenango, Guatemala, reviewing antibiotic prescribing and dispensing practices.

DBD 2010 FAST FACTS

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