From Saving Babies to Protecting People: 2018

National Center on Birth Defects and Developmental Disabilities

NCBDDD Making a Difference Across the Lifespan

[Image: Family of four lying on grass smiling]

National Center for Chronic Disease Prevention and Health Promotion
Centers for Disease Control and Prevention

[Logo: CDC]
MESSAGE FROM THE DIRECTOR

I am pleased to present the National Center on Birth Defects and Developmental Disabilities’ (NCBDDD) Report for 2018: Making a Difference Across the Lifespan. As an organization, we strive to put our best foot forward every day to serve the public in the most efficient and effective ways possible. In this year’s Report, we are highlighting many, though certainly not all, of the Center’s accomplishments and activities to advance our vision ensuring babies are born healthy, children reach their potential, and everyone thrives.

The past year, 2018, proved to be another eventful year for our Center. Most notably, Zika continued to dominate the headlines, with NCBDDD working extensively to respond to this emerging disease threat. We worked closely with our partners in Washington and members of Congress to support our first budget initiative in several years: Emerging Threats to Mothers and Babies. The Zika virus response brought stark attention to the threat public health emergencies pose to pregnant women and their infants, and this successfully funded budget initiative allows us to continue supporting state and local capacity to identify and track health outcomes due to the virus. Additionally, we have been working with jurisdictions most heavily impacted by the opioid epidemic to learn more about potential birth defects and other poor newborn outcomes linked to opioid use in pregnancy, as well as understand the long-term developmental outcomes that may be associated with this exposure. Building on our Zika surveillance program, we will support the foundation for a national system to rapidly identify potential threats to infant health, support care providers and families by improving our understanding of adverse outcomes, and tailor interventions that help children thrive.

This increase to our Center’s budget would not have happened without the support of our partners across the public health community, and we will continue to work together to ensure this investment improves the lives of millions of babies and children. We remain committed to fighting on the frontlines protecting moms and babies from all emerging health threats.

I hope you enjoy reading this Report and that it gives you further insight into the work that we do and the progress we have made as an organization in partnership with others during 2018. Our staff are our greatest resource, and I’m proud to say we have a team committed to working together for the success of our Center. As we enter 2019, I would like to take a moment to thank retiring staff Julie Bolen, PhD, and J. Michael Soucie, PhD, for their incredible contributions to this Center and public health (rare disorders and bleeding disorders, respectively). I thank them for their service and tenacity and their dedication throughout the years. Lastly, I would like to thank all of our partners for their dedication and commitment to NCBDDD.

In 2020, we will be celebrating NCBDDD’s 20th anniversary as a Center, focusing on all the incredible work we’ve done for the past 20 years. I invite our partners to join us in 2020 for this special celebration.

On behalf of NCBDDD,

Coleen Boyle, PhD, MS (Hyg)
Director
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CDC’s NCBDDD is working toward a day when all babies are born with the best health possible.

Birth defects and infant disorders, such as fetal alcohol spectrum disorders, are common, costly, and critical. Our unique state-based birth defects tracking, public health research, and world-renowned expertise provide a wealth of information used to

- Identify causes of birth defects and infant disorders;
- Find opportunities to prevent them; and
- Improve the health of babies born with these conditions.

Together with states, academic centers, healthcare providers, and other partners, we are working toward a day when all babies are born with the best health possible and every child thrives.

Accomplishments

• Contributed to what is known about Zika virus infection during pregnancy. Information collected from the U.S. Zika Pregnancy and Infant Registry was used to advance public health action to protect mothers and babies from Zika virus infection. In addition, data from this innovative monitoring system led to

  - Better understanding of the impact of Zika virus infection during pregnancy;
  - Updated clinical care recommendations;
  - Planning for medical and social services for families affected by Zika virus; and
  - Improved prevention of Zika virus infection during pregnancy.

• Advanced the efforts examining the effectiveness of mandated screening for critical congenital heart defects (CCHDs) and the long-term outcomes and healthcare needs for children born with heart defects. Mandated CCHD screening nationwide was estimated to potentially save the lives of 120 babies each year. NCBDDD estimated that 1 in 77 U.S. children were living with heart conditions in 2016 and that these children were more likely to have special healthcare needs, such as medication needs or physical or speech therapy. This research quantifies the impact of mandated CCHD screening, identifies the needs of those living with heart defects, and helps inform resource planning for this growing population.
- Expanded research and delivered reliable information about the use of certain medications, such as antibiotics and medications for attention-deficit/hyperactivity disorder, among pregnant women and women of reproductive age. These results from studies by NCBDDD researchers, using data from the National Birth Defects Prevention Study, provide a basis for further studies on medications identified as having a potential risk for birth defects. NCBDDD also provided new information on medication use during pregnancy through the Treating for Two website.

- Collaborated across CDC to evaluate a possible link between neural tube defects among infants born to women living with human immunodeficiency virus (HIV) and the use of the medication, dolutegravir, in early pregnancy. This comprehensive evaluation considered all risks and benefits to both mother and baby for the use of dolutegravir in early pregnancy.

- Focused new fetal alcohol spectrum disorder (FASD) activities on
  - Implementing alcohol screening and brief intervention in health systems that provide women’s health services;
  - Expanding capacity of national professional organizations in the prevention, identification, and management of FASDs; and
  - Promoting resources for FASD awareness and prevention.
NCBDDD will continue its work to protect women and babies through birth defects tracking and public health research. These activities provide knowledge about the factors that might increase or decrease the risk of having a baby with a birth defect or infant disorder. NCBDDD’s work on Zika virus is a reminder of the medical vulnerability of mothers and babies to emerging infections and other health threats, such as the opioid crisis and natural disasters. With new funding received for fiscal year 2019 for Surveillance of Emerging Threats to Mothers and Babies, NCBDDD will continue to leverage the innovative tracking and monitoring system developed to combat Zika virus, work to understand the full impact of Zika virus on infants and children, and pilot this system to capture data on other emerging threats that may affect mothers and babies. With new funding received for fiscal year 2019 for neonatal abstinence syndrome, NCBDDD will expand work with states and partners to build upon birth defects surveillance systems and explore more accurate ways of estimating the number of infants who have neonatal abstinence syndrome and the health needs for these children.

**Notable Scientific Publications**


American Academy of Pediatrics

Zika Response
Since 2016, the American Academy of Pediatrics (AAP) has worked hand-in-hand with the Centers for Disease Control and Prevention (CDC) National Center on Birth Defects and Developmental Disabilities (NCBDDD) to ensure that infants impacted by Zika virus were identified, reported, and provided immediate and long-term treatment and care. This included input on updated clinical guidance, articles, and resources for clinicians, such as psychosocial support materials and an AAP Periodic Survey of Fellows to learn about pediatricians’ experiences with, and attitudes toward, infectious disease and disaster preparedness, with a focus on Zika virus. The AAP also partnered with the American College of Obstetricians and Gynecologists (ACOG) to conduct a national survey of its membership and focus groups, and evaluation of AAP/ACOG support to Zika contractual field assignees within local health departments. The AAP continues to express that

• Clinicians remain vigilant in preventing Zika during pregnancy;
• Healthcare providers provide consistent and clear presentation of information from provider-to-provider and from provider-to-patient; and
• Developing babies with suspected or possible congenital Zika virus infection need continued monitoring within a medical home.

The AAP believes this work and these collaborations are important to ensure the optimal health and development of infants with congenital Zika virus exposure.

Fetal Alcohol Spectrum Disorders
Prenatal exposure to alcohol is the leading preventable cause of birth defects, intellectual disabilities, and neurodevelopmental disorders. The non-diagnostic umbrella term fetal alcohol spectrum disorders (FASDs) is used to characterize the full range of diagnoses resulting from prenatal alcohol exposure. Research and other published data continue to document missed and underdiagnosed FASDs. Early identification of a child at risk for an FASD is facilitated by screening for prenatal alcohol exposure. Information to support pediatricians is available at www.aap.org/pae.

Through grant funding from NCBDDD, AAP has worked with the National Organization on Fetal Alcohol Syndrome and two university-based Practice and Implementation Centers at the University of California-San Diego and the University of Wisconsin-Madison. Through these partnerships, the centers developed multiple educational resources to ensure pediatric clinicians have the capacity to identify and manage the care for children with FASDs. These are available at www.aap.org/fasd.
Developmental disabilities, such as autism spectrum disorder (ASD), attention-deficit/hyperactivity disorders (ADHD), cerebral palsy, and hearing or vision loss, create delays and/or functional limitations that can impact a child’s health and well-being. Approximately 1 in 6 children in the United States have developmental disabilities or other developmental delays. To best support children and their families, CDC is committed to

- Monitoring common developmental disabilities,
- Identifying factors that can put children at risk for disabling conditions,
- Exploring possible causes of developmental disabilities, and
- Improving identification of developmental delays.

**Accomplishments**

- **Published updated ASD characteristics and prevalence among 8-year-old children in 11 communities in the United States from data collected by the Autism and Developmental Disabilities Monitoring Network.** This study identified about 1 in 59 children with ASD in 2014 compared to about 1 in 69 children in 2012. These data have been used to
  - Promote early identification of children with ASD;
  - Plan for service needs of children with ASD and their families; and
  - Guide research and inform policy.

- **Supported deaf/hard-of-hearing children to have a healthy launch into school.** Ensuring that children have received hearing screening, diagnosis, and intervention services early is critically important for their learning and development. CDC’s Early Hearing Detection and Intervention (EHDI) Program tracks the 1-3-6 milestones (on page 9) to confirm timely receipt of these critical services. However, some children are lost to the system. CDC partnered with the EHDI Program in Texas to understand how to prevent loss-to-follow-up and loss-to-documentation of receiving services among infants who do not pass a newborn hearing screening. The team identified
  - Potential reasons children do not receive services;
  - Barriers to documenting the diagnosis and intervention status of infants who did not pass their hearing screening; and
  - Recommendations to reduce these challenges.

Findings will help states increase the number of deaf/hard of hearing children who receive the appropriate hearing services at the appropriate time so they are ready to learn in school.
• Published more than 10 peer-reviewed articles using data from the Study to Explore Early Development (SEED), the largest study in the United States that focuses on identifying factors that may put children at risk for ASD and examining common characteristics among children with ASD. SEED researchers found
  - A possible link between shorter and longer time periods between births and having a child with ASD;
  - Self-injurious behaviors were more common among children with ASD than in children with developmental disabilities without ASD symptoms; and
  - A link between immune conditions in mothers and ASD and other developmental disabilities in their children.

CDC also began enrolling participants in SEED Teen, a follow-up study to help broaden our understanding of the health and development of individuals with ASD as they reach adolescence and adulthood.

• Conducted the Zika Outcomes and Development in Infants and Children (ZODIAC) investigation through CDC’s partnership with Brazil’s Ministry of Health, via support from the U.S. Agency for International Development. This follow-up assessment of children aged 12-24 months who were conceived during the 2015-2016 Zika virus outbreak in Brazil provided a first-ever description of the longer-term health and developmental effects of congenital Zika virus infection in children with microcephaly. ZODIAC findings are being used to
  - Understand the full range of potential healthcare problems;
  - Educate parents and healthcare providers;
  - Prepare communities for long-term medical and social service needs; and
  - Assist children in developing to their full potential.

• Launched the Learn the Signs. Act Early. Milestone Tracker App in Spanish and English to help parents monitor their child’s development and get tips for taking action when there is a concern. Since its launch, the Milestone Tracker App was downloaded more than 140,000 times in 2018. Additionally, to promote developmental monitoring and screening for young children, CDC increased the number of state and territorial Act Early Ambassadors (55 total), who help identify and connect young children with developmental delays with the appropriate services and support as early as possible.
HELPING CHILDREN

Looking to the Future

Children with developmental disabilities and their families often face personal, social, and financial challenges. CDC and its partners work across systems to improve identification of developmental delays, increase the connection of these children and their families to medical, developmental, and behavioral intervention services, and provide tools and resources to help families facing these challenges. NCBDDD’s mission extends to understanding optimal development at each stage of life, from promoting school readiness to the health of teens with ASD, as well as helping families and children get the support they need.

Notable Scientific Publications


SPOTLIGHT ON:

Association of Maternal and Child Health Programs

The Association of Maternal & Child Health Programs (AMCHP) is a national resource, partner, and advocate for state public health leaders and others working to improve the health of women, children, and families, including children and youth with special healthcare needs (CYSHCN). Recognizing the value of building high-quality systems of care for CYSHCN, AMCHP partnered with CDC, the Health Resources and Services Administration, and the Association of University Centers on Disabilities to support the Learn the Signs. Act Early (LTSAE) State Systems project and implement the State Public Health Autism Resource Center (SPHARC).

Helping State Grantees Improve Early Identification

AMCHP supports state and jurisdiction LTSAE grantees to strengthen systems for the early identification and improved coordination of services for children at risk for autism spectrum disorder and other developmental disabilities (ASD/DD). With AMCHP grants and technical assistance, state teams promote the use of CDC’s materials to help increase parental engagement of developmental monitoring. Successes include the production of culturally relevant cable access TV shows promoting LTSAE and the development and implementation of LTSAE trainings and materials for physicians, public libraries, hospitals, parents, and early childhood care providers (WIC, Head Start, etc.). To learn more, visit the LTSAE State Systems Grantees web page.

Peer-to-Peer Exchange (P2P) to Improve Systems of Care

AMCHP’s SPHARC convenes an annual P2P Exchange, which enables cross-state learning and capacity building for state programs implementing systems of care for children and youth with ASD/DD. The 2018 Exchange highlighted the importance of parents- and self-advocates, and featured the sharing of best practices and resources. The newsletter article relays the impactful stories told by a parent and self-advocate. Additionally, SPHARC released an interactive story wall featuring family navigators’ stories on their experiences supporting families as they access comprehensive systems of care for CYSHCN. To learn more, visit the SPHARC web page.

NCBDDD’s Developmental Disabilities and Child Development Topics

- Attention-Deficit/Hyperactivity Disorder
- Autism Spectrum Disorder
- Caring for Children in a Disaster
- Cerebral Palsy
- Child Development
- Children’s Mental Health
- Fetal Alcohol Spectrum Disorders
- Hearing Loss
- Intellectual Disability
- Learn the Signs. Act Early. Program
- Tourette Syndrome

Visit www.cdc.gov/ncbddd to learn more.
Blood disorders affect millions of people each year in the United States, cutting across the boundaries of age, race, sex, and socioeconomic status. With proper actions, some blood disorders can be prevented. In the case of inherited blood disorders, early intervention can prevent serious complications. At CDC, we are dedicated to helping people with blood disorders by

- Contributing to a better understanding of blood disorders and their complications;
- Working to develop, implement, and evaluate prevention programs;
- Helping consumers and healthcare providers get the information they need; and
- Encouraging action on behalf of individuals living with, or affected by, blood disorders.

**Accomplishments**

- **Released new resources and potentially lifesaving information, through the CDC-funded Stop the Clot, Spread the Word™ campaign on the risks, signs, and symptoms of blood clots among women who are pregnant or recently gave birth.**

These educational resources empower women to talk with their healthcare providers about the factors that increase their risk for blood clots as well as determine if they might benefit from a plan to prevent blood clots. The previous components of the campaign, which provide general information about blood clots and their risks related to hospitalization, have already achieved more than 300 million media impressions.

- **Published key articles and reports using Community Counts data:**
  - Community Counts: Evolution of a National Surveillance System for Bleeding Disorders, an article that describes the project’s organization and components and provides a summary of patients enrolled through the end of September 2017.
  - The 2014 Community Counts Registry Report, a report that describes the project background, methods, and select baseline data collected during the project’s first year.
  - Community Counts: The HTC Population Profile Data through March 2018, a report that contains a set of 12 data items collected on patients with
bleeding disorders or venous thromboembolism (blood clots) who receive care at U.S. hemophilia treatment centers.

- **Conducted a CNE/CME-accredited webinar titled “Improving Outcomes for Females with Bleeding Disorders in Non-Hematology Healthcare Settings.”** This webinar, funded through a cooperative agreement between the National Hemophilia Foundation and the Division of Blood Disorders, is intended to
  - Help raise awareness among healthcare providers who are not blood disorders specialists about bleeding disorders in women and how best to care for these women;
  - Encourage provider collaboration with hemophilia treatment centers;
  - Influence clinical practice;
  - Reduce reproductive system-related diseases in women; and
  - Improve health outcomes.

- **Worked with partners to produce or collaborate on numerous education and outreach materials through the Sickle Cell Data Collection (SCDC) program including:**
  - *The Bloodline*: the SCDC Program quarterly newsletter;
  - SCDC Program Report: *Data to Action*;
  - California SCDC webinars; and
  - Videos for individuals with sickle cell disease who are transitioning from pediatric to adult care.

- **Developed educational materials, published research articles, and captured personal stories** about therapeutic blood transfusions for hemoglobinopathies (thalassemia and sickle cell disease), including:
  - An animated graphic about blood donations among racial/ethnic minorities;
  - An article describing a novel intervention in the primary care setting to improve management of transfusion-related iron overload; and
  - A personal story about Maria Hadjidemetriou’s journey living with thalassemia, which includes her advice for others living with inherited blood disorders.
PROTECTING PEOPLE

Looking to the Future

NCBDDD’s important work will continue to include activities that increase understanding of blood disorders, advance medical care and treatments, and improve outcomes for all people with blood disorders by promoting health education, early detection, and medical referrals for this population. For thalassemia and sickle cell disease, NCBDDD invests in determining the number, health needs, and healthcare use of people living with these types of blood disorders. NCBDDD also works to understand more fully the complications resulting from blood transfusions. For those living with hemophilia, NCBDDD is researching how well treatment strategies are preventing disease-related complications, as well as learning the factors that place people with hemophilia at risk for inhibitors and other complications and studying and promoting the use of periodic inhibitor testing. NCBDDD also monitors complications arising from the use of blood products and new and existing treatment products; seeks to prevent blood clots; and works to improve laboratory techniques used to identify those at risk for clots.

Notable Scientific Publications


SPOTLIGHT ON:

National Hemophilia Foundation

The National Hemophilia Foundation (NHF) is committed to preventing the complications associated with hemophilia and other bleeding disorders. As part of NHF’s cooperative agreement with CDC, NHF has focused on preventing joint damage for those living with a bleeding disorder. In 2017, NHF launched educational activities to encourage the community to “Make Your Move” through increased safe physical activity. In addition, NHF has

• Updated and revised its Playing It Safe guide (available in English and Spanish);
• Updated and revised its ratings on safe physical activities;
• Launched multiple Make Your Move webinars led by physical therapists promoting safe increased activity; and
• Continued educating the community through in-person workshops that bleeding disorders chapters around the country can bring to their local education events.

Through these efforts (distributed print materials, webinar views, workshop attendees, and website page views), NHF has garnered more than 17,000 touchpoints. To ensure better outreach to Spanish-speaking communities, NHF launched its Guías Culturales program, which trained nine Spanish-speaking community members in the TIPs to Improve Communication with Healthcare Providers workshop to facilitate local bleeding disorders events in Spanish and help address some of the cultural barriers faced when trying to get care for a bleeding disorder and prevent its complications.

NCBDDD’s Blood Disorders Topics

• Hemophilia
• Sickle Cell Disease
• Thalassemia
• Venous Thromboembolism
• Vitamin K Deficiency Bleeding
• Von Willebrand Disease

Visit www.cdc.gov/ncbdd to learn more.
Disabilities may include difficulty with movement, hearing, seeing, concentrating, remembering, or making decisions. Many people will experience a disability during their lifetimes, but having a disability does not mean that a person is not healthy or cannot be healthy. People with disabilities need healthcare services and health promotion programs for the same reasons everyone else does—to stay well, active, and part of the community. CDC works to make sure that people of all abilities are able to live their lives to the fullest.

Accomplishments

- Updated the clinical care considerations for individuals with Duchenne muscular dystrophy to improve their care and quality of life. This set of three articles, funded by NCBDDD and published in *Lancet Neurology*, offers an update of the original articles from 2010, and outlines the latest clinical considerations. These consensus-based care considerations are intended to raise the standards of care and provide physicians, families, and caregivers with information to provide and manage the best possible care for people with Duchenne. They cover 11 medical subspecialties, including three new topic areas:
  - Endocrinology/bone health;
  - Primary care and emergency care; and
  - Healthcare transition from pediatric to adult care.

- Helped advance better public health programs for people with disabilities by providing interactive, customizable access to state-level disability data via CDC’s [Disability and Health Data System (DHDS)](https://www.cdc.gov/dhdsp/data-therapy/disability(accessibility)). CDC updated DHDS to include the latest 2016 Behavioral Risk Factor Surveillance System (BRFSS) data on U.S. adults with disabilities, including cognitive (serious difficulty concentrating, remembering, or making decisions); mobility (serious difficulty walking or climbing stairs), vision, self-care, independent living; and—for the first time—deafness or serious difficulty hearing. DHDS provides state-level disability data on approximately 30 health indicators, such as smoking, heart disease, and receiving the flu vaccine. To promote the use of DHDS and show how the data can be used to plan for disability inclusive programs and services, NCBDDD developed, in collaboration with the National Association of Chronic Disease
Directors (NACDD), two webinars (“DHDS: Beginner’s Guide” and “DHDS: Beyond the Basics”) as well as one NACDD-sponsored podcast (Health Yeah!).

- **Disseminated the newest prevalence data on U.S. adults with disabilities** by disability type and healthcare access. Using 2016 BRFSS data, researchers found that 1 in 4 U.S. adults – 61 million Americans – have a disability, with mobility disability being the most common, followed by cognitive disability. Disability-specific differences in healthcare access are common, particularly among young and middle-aged adults. See the graphic on page 17 for more findings. This information enables healthcare professionals to address barriers to healthcare access, ensure inclusivity in public health programs, and improve the health of people with disabilities. These data were published in CDC’s *Morbidity and Mortality Weekly Report*.

- **Targeted various opportunities for improving the health of people with intellectual and developmental disabilities (IDD)** by funding, 10 State Disability and Health Programs to analyze Medicaid data and identify patterns of health and healthcare utilization among people with IDD.

  Working with NCBDDD, awardees reviewed data showing the most common health conditions for outpatient care and emergency department visits. They have also begun to produce informational videos focused on diabetes self-management education and support for people with IDD, their caregivers, and healthcare providers.

- **Initiated efforts to help individuals with disabilities and/or potentially disabling long-standing conditions transition from pediatric to adult care.** CDC convened a coalition of 33 partners to develop actionable steps they could take to ensure that short-and long-term changes occur to achieve smooth transition for individuals with disabilities and/or with disabling, long-standing conditions. To further address this common goal of smoother healthcare transitions, the coalition will continue to meet to discuss

  - Clinical practice and coordination issues;
  - Access to care; and
  - Family and self-readiness for transition.
Looking to the Future

CDC is dedicated to promoting inclusive communities, programs, and policies that provide opportunities for people with disabilities to live full, healthy lives. CDC will continue to educate families and stakeholders about the need for public health programs that are fully accessible to all. By providing effective tools and resources to increase access to healthcare services and by promoting the healthy development of people with disabilities across the lifespan, CDC hopes to narrow health differences between people with and without disabilities.

Notable Scientific Publications


SPOTLIGHT ON:

Special Olympics

Special Olympics and NCBDDD have been working together for 16 years to prevent injury, illness, and premature death for people with intellectual disabilities by improving equitable access to quality health care, education, and services. This partnership for health is particularly powerful. In the United States, there are more than 675,000 athletes who compete in Special Olympics that are being reached through programming, education, prevention activities, and healthcare partnerships. Further, with more than 135,000 coaches and 686,500 volunteers, there are many community members influencing the health of the athletes.

Jackie Kennedy, an athlete with Special Olympics Connecticut, attended the 2017 Summer Games to compete in track and field. What she got was so much more than a medal. Jackie was one of 643 athletes who visited Special Olympics Healthy Athletes – a program that provides free health screenings in a fun, welcoming environment. During the dental screening, Jackie learned she had an abscessed tooth that needed immediate care. Through partnerships with the University of Connecticut School of Dental Medicine and the Department of Developmental Services, Special Olympics was able to refer Jackie for immediate follow-up treatment at a place where providers were trained to work with people with intellectual disabilities.

These providers worked to ensure it was a positive experience, helping Jackie become more trusting of doctors and dentists, ensuring her much-needed urgent care was of the highest quality. “I don’t get to go to the dentist and doctor as often as I need to. I look forward to Healthy Athletes screenings every year,” explained Jackie. “It’s the best thing that Special Olympics offers.”

Special Olympics Health is working to ensure Special Olympics athletes can perform at their best, on and off the field, and have equal access to quality health care, health education, and resources. Our impact on the health and well-being of Special Olympics athletes in the United States is substantial, in some cases saving lives by discovering unknown health issues or providing partnerships to health care that otherwise would not be available. We not only serve these athletes but also train healthcare professionals, who then return to their practices with increased knowledge of, and compassion for, people with intellectual disabilities.

NCBDDD’s Disability Topics

- Congenital Heart Defects
- Disability and Health
- Fragile X Syndrome
- Muscular Dystrophy
- Living with Spina Bifida

Visit www.cdc.gov/ncbddd to learn more.

Funds are currently supporting surveillance, research, and prevention activities that are addressing issues with the greatest public health burden and implementing strategies to improve health outcomes.
### NCBDDD FY 2018 Appropriations (in thousands)

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<td>Thalassemia</td>
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<td>Hereditary Hemorrhagic Telangiectasia (HHT)</td>
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SELECT STATE-BASED Activities and Funding

Alabama

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Alabama Department of Public Health (DD17-1701, 000085)
$149,174

Improving the Health of People with Mobility Limitations and Intellectual Disabilities through State-based Public Health Programs
Alabama Department of Public Health (DD16-1603, 000017)
$300,000

National Centers on Health Promotion for People with Disabilities
University of Alabama, Birmingham (DD16-1602, 001157)
$1,500,000
Supplemental Funding $912,500

Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
University of Alabama, Birmingham (DD14-002, 001080)
$66,943

Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
University of Alabama (DD14-002, 001079)
$20,530

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Alabama Department of Health (DD16-1605, 000002)
Project ends 7/31/19

Alaska

Implementing Alcohol Screening and Brief Intervention in Healthcare Systems Providing Women’s Health Services
University of Alaska, Anchorage (DD18-1802, 000005)
$400,000
Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Alaska Department of Health and Social Services (DD17-1701, 000060)
$150,000

Fetal Alcohol Spectrum Disorders (FASO) Practice and Implementation Centers
University of Alaska, Anchorage (DD14-1402, 001143)
Project ended 9/29/18

Reaching Healthcare Professionals in the Prevention of Fetal Alcohol Spectrum Disorders through National Professional Organizations
University of Alaska, Anchorage (DD18-1803, 000006)
$250,000

Arkansas

Birth Defects Study To Evaluate Pregnancy exposureS (BD-STEPS); Stillbirth Risk Factor Pilot
University of Arkansas for Medical Services (DD13-003 & DD15-004, 001039)
Project ends 8/31/19

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Arkansas Department of Health (DD17-1701, 000092)
$150,000

Improving the Health of People with Mobility Limitations and Intellectual Disabilities through State-based Public Health Programs
University of Arkansas (DD16-1603, 000016)
$439,943

Enhancing Public Health Surveillance of Autism Spectrum Disorder and Other Developmental Disabilities through the Autism and Developmental Disabilities Monitoring (ADDM) Network
University of Arkansas (DD15-1501, 001163)
$450,000

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Arkansas Children’s Research Institute (000050)
Project ends 1/31/2019

Birth Defects Study To Evaluate Pregnancy exposureS (BD-STEPS) II
Arkansas Children’s Research Institute (DD18-001, 001229)
$995,000

Arizona

Population-Based Surveillance of Birth Defects and Data Utilization for Public Health Action
Arizona Department of Health Services (DD16-1601, 004950)
$200,000

Enhancing Public Health Surveillance of Autism Spectrum Disorder and Other Developmental Disabilities through the Autism and Developmental Disabilities Monitoring (ADDM) Network
University of Arizona (DD15-1501, 001162)
$550,000

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Arizona Department of Health Services (DD17-1701, 000076)
$150,000

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Arizona Department of Health Services (DD16-1605, 000020)
Project ends 7/31/2019
**SELECT STATE-BASED ACTIVITIES AND FUNDING**

### California

**Birth Defects Study To Evaluate Pregnancy exposureS (BD-STEPS)**
Stanford University (DD13-003, 001033)
**Project ends 8/31/19**

**Characterizing the Complications Associated with Therapeutic Blood Transfusions for Hemoglobinopathies**
Children’s Hospital and Research Center at Oakland (DD14-1406, 006093)
$100,000

**Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida**
Children’s Hospital of Los Angeles (DD14-002, 001068)
$20,530

**Fetal Alcohol Spectrum Disorders (FASD) Practice and Implementation Centers**
University of California (DD14-1402, 001144)
**Project ended 9/29/18**

**Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus-High Risk Local Areas**
Los Angeles County Department of Public Health (DD16-1606, 000142)
**Project ended 6/30/2018**

**Birth Defects Study To Evaluate Pregnancy exposureS (BD-STEPS) II**
Stanford University (DD18-001, 001226)
$770,000

**Strengthening Public Health Systems and Services Through National Partnerships to Improve and Protect the Nation’s Health**
Changelab Solutions (OT18-1802)
$200,000

### Colorado

**Population-Based Surveillance of Birth Defects and Data Utilization for Public Health Action**
Colorado Department of Public Health and Environment (DD16-1605, 000040)
**Project ended 4/2/18**

**Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus**
Colorado Department of Public Health and Environment (DD15-1501, 001161)
$550,000

**Surveillance of Congenital Heart Defects Across the Lifespan**
University of Colorado, Denver (DD15-1506, 000935)
$450,000

**Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE): Study to Explore Early Development (SEED) 3**
University of Colorado, Denver (DD16-001, 001210)
$770,377

**Surveillance and Research of Muscular Dystrophies and Neuromuscular Disorders**
Colorado Department of Public Health and Environment (DD14-001, 001126)
$499,999

**Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida**
University of Colorado, Denver (DD14-002, 001093)
$67,082

**Using Longitudinal Data to Characterize the Natural History of Fragile X Syndrome to Improve Services and Outcomes**
University of Colorado, Denver (DD15-003, 001190)
$99,981
Connecticut

Implementing Alcohol Screening and Brief Intervention in Healthcare Systems Providing Women’s Health Services
University of Connecticut Health Center
/DD18-1802, 000004
$399,954

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Connecticut Department of Public Health
/DD16-1605, 000010
Project ended 12/29/17

Georgia

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Georgia State University, University Foundation, Inc. (DD14-1406, 001138)
$550,000

Surveillance of Congenital Heart Defects Across the Lifespan
Emory University (DD15-1506, 004932)
$475,000

Florida

Population-Based Surveillance of Birth Defects and Data Utilization for Public Health Action
Florida Department of Health (DD16-1601, 004946)
$210,000

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Florida Department of Health (DD17-1701, 000077)
$150,000

Improve the Health of People with Mobility Limitations and Intellectual Disabilities through State-based Public Health Programs
Florida Department of Health (DD16-1603, 000012)
$300,000

Characterizing the Complications Associated with Therapeutic Blood Transfusions for Hemoglobinopathies
University of Florida (DD14-1406, 006094)
$99,993

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Florida Department of Health (DD16-1605, 000013)
Project ends 7/31/2019

Delaware

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Delaware Health & Social Services
/DD17-1701, 000082
$145,870

Strengthening Public Health Systems and Services Through National Partnerships to Improve and Protect the Nation’s Health
Association of State and Territorial Public Health Nutrition Directors (OT18-1802)
$250,000

Characterizing the Complications Associated with Therapeutic Blood Transfusions for Hemoglobinopathies
University of Florida (DD14-1406, 006094)
$99,993

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Connecticut Department of Public Health (DD16-1605, 000010)
Project ended 12/29/17

Strengthening Public Health Systems and Services Through National Partnerships to Improve and Protect the Nation’s Health
National Association of Chronic Disease Directors (OT18-1802)
$277,200
Strengthening Public Health Systems and Services Through National Partnerships to Improve and Protect the Nation’s Health
Task Force for Global Health (OT18-1802)
$757,881

Strengthening Public Health Systems and Services Through National Partnerships to Improve and Protect the Nation’s Health
National Foundation for CDC (OT18-1802)
$150,000

Behavior Risk Factor Surveillance System (BRFSS) Georgia
Department of Public Health (DP15-1513, 006036)
$30,000

Hawaii

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
University of Hawaii Systems – bona fide agent for American Samoa (DD17-1701, 000071)
$141,925

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
University of Hawaii Systems – Bona fide agent for Marshall Islands (DD17-1701, 000072)
$124,584

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
State of Hawaii Department of Health (DD16-1605, 000015)
Project ends 7/31/19

Idaho

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Idaho Department of Health and Welfare (DD17-1701, 000079)
$150,000

Illinois

Population-Based Surveillance of Birth Defects and Data Utilization for Public Health Action
Illinois Department of Public Health (DD16-1601, 004947)
$210,000

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Illinois Department of Public Health (DD17-1701, 000053)
$150,000

Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
Lurie Children’s Hospital of Chicago (DD14-002, 001091)
$66,710

Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
Lurie Children’s Hospital of Chicago (DD14-002, 001092)
$20,530

Using Longitudinal Data to Characterize the Natural History of Fragile X Syndrome to Improve Services and Outcomes
Rush University Medical Center (DD15-003, 001186)
$99,947

Public Health Surveillance for the Prevention of Complications of Bleeding Disorders
American Thrombosis and Hemostasis Network (DD15-1507, 000001)
$4,300,000

Supplemental Funding $100,000

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus-High Risk Local Areas
City of Chicago Department of Public Health (DD16-1606, 000139)
Project ended 8/31/2018

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Illinois Department of Public Health (DD16-1605, 000006)
Project ended 2/28/18
Strengthening Public Health Systems and Services Through National Partnerships to Improve and Protect the Nation’s Health
American Academy of Pediatrics (OT18-1802)
$1,042,595

## Indiana

**Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)**
Indiana State Department of Health
(DD17-1701, 000094)
$149,242

**Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida**
Indiana University/Purdue University at Indianapolis
(DD14-002, 001057)
$66,440

**Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus**
Indiana State Department of Health
(DD16-1605, 000030)
Project ended 7/31/2018

## Iowa

**Birth Defects Study To Evaluate Pregnancy exposureS (BD-STEPS)**
University of Iowa (DD13-003, 001035)
Project ends 8/31/19

**Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus**
Kansas Department of Health and Environment (DD16-1605, 000029)
Project ends 7/31/2019

**Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)**
Iowa Department of Public Health
(DD17-1701, 000061)
$150,000

## Kansas

**Improving the Health of People with Mobility Limitations and Intellectual Disabilities through State-based Public Health Programs**
University of Kansas Center for Research, Inc.
(DD16-1603, 000006)
$389,995

**Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus**
University of Iowa (DD14-001, 001119)
$449,751

**Surveillance and Research of Muscular Dystrophies and Neuromuscular Disorders**
University of Iowa (DD14-001, 001120)
$250,000

**Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus**
University of Iowa (DD16-1605, 000005)
Project ended 9/30/2018

**Birth Defects Study To Evaluate Pregnancy Exposures (BD-STEPS) II**
University of Iowa (DD18-001, 001223)
$770,000

**Surveillance and Research of Muscular Dystrophies and Neuromuscular Disorders**
University of Iowa (DD14-001, 001119)
$449,751

**Improving the Health of People with Mobility Limitations and Intellectual Disabilities through State-based Public Health Programs**
University of Iowa (DD16-1603, 000006)
$389,995

**Surveillance and Research of Muscular Dystrophies and Neuromuscular Disorders**
University of Iowa (DD14-001, 001120)
$250,000

**Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus**
University of Iowa (DD16-1605, 000005)
Project ended 9/30/2018

**Birth Defects Study To Evaluate Pregnancy Exposures (BD-STEPS) II**
University of Iowa (DD18-001, 001223)
$770,000

**Surveillance and Research of Muscular Dystrophies and Neuromuscular Disorders**
University of Iowa (DD14-001, 001119)
$449,751

**Surveillance and Research of Muscular Dystrophies and Neuromuscular Disorders**
University of Iowa (DD14-001, 001120)
$250,000

**Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus**
University of Iowa (DD16-1605, 000005)
Project ended 9/30/2018

**Birth Defects Study To Evaluate Pregnancy Exposures (BD-STEPS) II**
University of Iowa (DD18-001, 001223)
$770,000
**Maine**

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)

Maine Department of Health and Human Services (DD17-1701, 000074)

$150,000

**Maryland**

Enhancing Public Health Surveillance of Autism Spectrum Disorder and Other Developmental Disabilities through the Autism and Developmental Disabilities Monitoring (ADDM Network)

Johns Hopkins University (DD15-1501, 001160)

$450,000

Improving the Health of People with Mobility Limitations and Intellectual Disabilities through State-based Public Health Programs

Maryland Department of Health (DD16-1603, 000005)

$150,000

National Public Health Practice and Resource Centers for Children with Attention Deficit/Hyperactivity Disorder or Tourette Syndrome

CHADD, Inc. (Children & Adults with Attention Deficit Hyperactivity Disorder) (DD15-1505, 005376)

$850,000

Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE): Study to Explore Early Development (SEED) 3

Johns Hopkins University (DD16-001, 001214)

$1,020,377

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus

Maryland Department of Health (DD16-1605, 000033)

Project ends 7/31/19

Strengthening Public Health Systems and Services Through National Partnerships to Improve and Protect the Nation’s Health

Association of University Centers on Disabilities (OT18-1802)

$1,164,250

**Kentucky**

Population-Based Surveillance of Birth Defects and Data Utilization for Public Health Action

Kentucky Cabinet for Health and Family Services (DD16-1601, 004938)

$210,000

Improving the Health of People with Mobility Limitations and Intellectual Disabilities through State-based Public Health Programs

Kentucky Cabinet for Health and Family Services (DD16-1603, 000010)

$150,000

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)

Kentucky Cabinet for Health and Family Services (DD17-1701, 000080)

$147,191

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus

Kentucky Cabinet for Health and Family Services (DD16-1605, 000004)

Project ended 7/31/2018

**Louisiana**

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)

Louisiana Department of Health (DD17-1701, 000087)

$243,657

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus

Louisiana Office of Public Health (DD16-1605, 000026)

Project ended 7/31/2018

**Select State-Based Activities and Funding**
Strengthening Public Health Laboratories Newborn Screening and Genetics - Hemoglobinopathies Project
Association of Public Health Laboratories
(OE15-1501, 000103)
$53,010

Behavioral Risk Factor Surveillance System
Maryland Department of Health
(DP15-1513. 006039)
$25,000

Small Business Innovation Research Grant (SBIR)
Medial Decision Logic, Inc. (SBIR17-302, 001220)
$2,000

Massachusetts

Birth Defects Study To Evaluate Pregnancy exposureS (BD-STEPS); Stillbirth Risk Factor Pilot
Massachusetts Department of Public Health
(DD13-003 & DD15-004, 001037)
Project ends 8/31/19

Public Health Research on Modifiable Risk Factors for Spina Bifida
Boston University Medical Center
(DD15-001, 001184)
Project ends 4/30/19

Implementing Alcohol Screening and Brief Intervention in Healthcare Systems Providing Women’s Health Services
Boston Medical Center Corporation
(DD18-1802, 000002)
$397,438

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Commonwealth of Massachusetts Department of Public Health (DD16-1605, 000011)
Project ends 7/31/2019

Birth Defects Study To Evaluate Pregnancy exposureS (BD-STEPS) II
Massachusetts Department of Public Health
(DD18-001, 001224)
$995,000

Implementing Alcohol Screening and Brief Intervention in Healthcare Systems Providing Women’s Health Services
Boston Medical Center Corporation
(DD18-1802, 000002)
$397,438

Michigan

Population-Based Surveillance of Birth Defects and Data Utilization for Public Health Action
Michigan Department of Health and Human Services (DD16-1601, 004944)
$210,000

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Michigan Department of Health and Human Services (DD17-1701, 000067)
$150,000

Improving the Health of People with Mobility Limitations and Intellectual Disabilities through State-based Public Health Programs
Michigan Department of Health and Human Services (DD16-1603, 000001)
$390,000

Implementing Alcohol Screening and Brief Intervention in Healthcare Systems Providing Women’s Health Services
Henry Ford Health System (DD18-1802, 000001)Small Business Innovation Research Grant (SBIR)
Rightanwer.com, Inc. (SBIR14-071, 001227)
$532,664
**Minnesota**

*Population-Based Surveillance of Birth Defects and Data Utilization for Public Health Action*
Minnesota Department of Health
(DD16-1601, 004939)
$175,000

*Enhancing Public Health Surveillance of Autism Spectrum Disorder and Other Developmental Disabilities through the Autism and Developmental Disabilities Monitoring (ADDM) Network*
Regents of the University of Minnesota
(DD15-1501, 001171)
$450,000

*Improving the Health of People with Mobility Limitations and Intellectual Disabilities through State-based Public Health Programs*
Minnesota Department of Health
(DD16-1603, 000009)
$300,000

*Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)*
Minnesota Department of Health
(DD17-1701, 000062)
$250,000

*Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida*
Gillette Children’s Specialty Healthcare
(DD14-002, 001074)
$67,090

*Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus*
Minnesota Department of Health
(DD16-1605, 000007)
Project ended 7/31/2018

*Behavioral Risk Factor Surveillance System*
Minnesota Department of Health
(DP15-1513, 006042)
$25,000

**Mississippi**

*Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)*
Mississippi Department of Health
(DD17-1701, 000096)
$150,000

*Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus*
Mississippi State Department of Health
(DD16-1605, 000035)
Project ended 11/30/2018

**Missouri**

*Improving the Health of People with Mobility Limitations and Intellectual Disabilities through State-based Public Health Programs*
Missouri Department of Health and Senior Services (DD16-1603, 000013)
$150,000

*Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)*
Missouri Department of Health and Senior Services (DD17-1701, 000064)
$102,159

*Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE): Study to Explore Early Development (SEED) 3*
Washington University (DD16-001, 001216)
$770,377

*Enhancing Public Health Surveillance of Autism Spectrum Disorders and other Disabilities through the Autism and Developmental Disabilities Monitoring (ADDM) Network*
Washington University at St. Louis
(DD15-1501, 001177)
$550,000

*Fetal Alcohol Spectrum Disorders (FASO) Practice and Implementation Centers*
University of Missouri (DD14-1402, 001145)
Project ended 9/29/18
Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Missouri Department of Health and Senior Services (DD16-1605, 000001)
Project ends 1/31/19

Montana

Improving the Health of People with Mobility Limitations and Intellectual Disabilities through State-based Public Health Programs
Montana Department of Public Health and Human Services (DD16-1603, 000018)
$390,000

Behavioral Risk Factor Surveillance System
Montana Department of Public Health and Human Services (DP15-1513. 006044)
$25,000

Nebraska

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Nebraska Department of Health & Human Services (DD17-1701, 000057)
$150,000

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Nebraska Department of Health & Human Services (DD17-1702, 000049)
Project ended 7/31/2018

Behavioral Risk Factor Surveillance System
Nebraska Department of Health and Human Services (DP15-1513, 006027)
$16,250

Nevada

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Nevada Department of Health and Human Services (DD17-1701, 000086)
$148,966

Fetal Alcohol Spectrum Disorders (FASD) Practice and Implementation Centers
Board of Regents, University of Nevada Reno (DD14-1402, 001132)
Project ended 9/29/18

Strengthening Public Health Systems and Services Through National Partnerships to Improve and Protect the Nation’s Health
Board of Regents, University of Nevada Reno (DD18-1802, 000008)
$250,000

Behavioral Risk Factor Surveillance System
Nevada Department of Health (DP15-1513)
$12,500

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Southern Nevada Health District (DD17-1702, 000047)
Project ends 7/31/2019

New Hampshire

Documentation and Use of Follow-up Diagnostic and Intervention Services Data through the Maintenance and Enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
New Hampshire Department of Health and Human Services (DD17-1701, 000068)
$150,000
New York

Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI- IS)
Health Research Inc/New York State Department of Health (DD17-1701, 000066)
$150,000

New Jersey

Enhancing Public Health Surveillance of Autism Spectrum Disorders and other Disabilities through the Autism and Developmental Disabilities Monitoring (ADDM) Network
Rutgers, The State University of New Jersey (DD15-1501, 001172)
$550,000

New Mexico

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
New Mexico Department of Health (DD16-1605, 000016)
Project ends 7/31/2019

$540,000
Evaluation of Health Promotion and Preventive Program for Blood Disorders
Cooley’s Anemia Foundation, Inc.
(DD14-1405, 001150)
$150,000

Evaluation of Health Promotion and Preventive Program for Blood Disorders
National Hemophilia Foundation
(DD14-1405, 001154)
$593,000

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus—High Risk Local Areas
New York City Department of Health
(DD16-1606, 000144)
Project ends 8/31/19

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Health Research, Inc. NYSDOH
(DD16-1605, 000021)
Project ends 5/31/2019

Using Longitudinal Data to Characterize the Natural History of Fragile X Syndrome to Improve Services and Outcomes
New York State Psychiatric Institute
(DD15-003, 001188)
$199,004

Using Longitudinal Data to Characterize the Natural History of Fragile X Syndrome to Improve Services and Outcomes
Institute for Basic Res in Developmental Disabilities (DD15-003, 001189)
$349,862

Birth Defects Study To Evaluate Pregnancy exposures (BD-STEPS) II
Health Research Inc/New York Department of Health (DD18-001, 001227)
$770,000

North Carolina

Enhancing Public Health Surveillance of Autism Spectrum Disorders and other Disabilities through the Autism and Developmental Disabilities Monitoring (ADDM) Network
University of North Carolina at Chapel Hill
(DD15-1501, 001175)
$550,000

Surveillance of Congenital Heart Defects Across the Lifespan
Duke University (DD15-1506, 004933)
$359,987

Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI- IS)
North Carolina Department of Health and Human Services
(DD17-1701, 000084)
$200,000

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
North Carolina Department of Health and Human Services
(DD16-1605, 000018)
Project ends 7/31/2019

Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE): Study to Explore Early Development (SEED) 3
University of North Carolina, Chapel Hill
(DD16-001, 001205)
$1,020,277

Birth Defects Study To Evaluate Pregnancy exposures (BD- STEPS)
University of North Carolina, Chapel Hill
(DD13-003, 001036)
Project Ends 8/31/19

Surveillance and Research of Muscular Dystrophies and Neuromuscular Disorders
Research Triangle Institute (DD14-001, 001116)
$449,608

Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
Duke University (DD14-002, 001082)
$66,581

Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
Duke University (DD14-002, 001087)
$20,520

Birth Defects Study To Evaluate Pregnancy exposures (BD- STEPS) II
University of North Carolina- Chapel Hill
(DD18-001, 001231)
$770,000
**Small Business Innovation Research Grant (SBIR) Innovation Research and Training, Inc.**
(SBIR17-302, 001219)  
$2,000

**Small Business Innovation Research Grant (SBIR) Innovation Research and Training, Inc.**
(SBIR18-574, 001232)  
$2,000

**North Dakota**

Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)  
Minot State University – North Dakota  
(DD17-1701, 000056)  
$150,000

**Ohio**

Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)  
Ohio Department of Health (DD17-1701, 000054)  
$150,000

*Improving the Health of People with Mobility Limitations and Intellectual Disabilities thru State-based Public Health Programs*  
Ohio State University (DD16-1603, 000015)  
$300,000

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus  
Ohio Department of Health (DD16-1605, 000023) Project ended 4/30/2018

Using Longitudinal Data to Characterize the Natural History of Fragile X Syndrome to Improve Services and Outcomes  
Cincinnati Children’s Hospital Medical Center  
(DD15-003, 001185)  
$99,992

**Oklahoma**

Population-Based Surveillance of Birth Defects and Data Utilization for Public Health Action  
Oklahoma State Department of Health  
(DD16-1601, 004949)  
$210,000

Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)  
Oklahoma State Department of Health  
(DD17-1701, 000065)  
$150,000

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus  
Oklahoma State Department of Health (DD16-1605, 000038) Project ends 1/31/2019

**Oregon**

Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)  
Oregon Department of Human Services  
(DD17-1701, 000091)  
$150,000

Improving the Health of People with Mobility Limitations and Intellectual Disabilities thru State-based Public Health Programs  
Oregon Health and Science University  
(DD16-1603, 000014)  
$440,000

*Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida*  
Oregon Health and Science University  
(DD14-002, 001071)  
$67,099

*Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida*  
Oregon Health and Science University  
(DD14-002, 001058)  
$20,530
Population-Based Surveillance of Birth Defects and Data Utilization for Public Health Action
Oregon Health Authority (DD16-1601, 004951) $210,000

Pennsylvania

Improving Fetal Alcohol Syndrome Disorder Prevention and Practice through National Partnerships
University of Pittsburgh (DD14-1403, 001135) Project ended 9/29/18

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus-High Risk Local Areas
Philadelphia Department of Health (DD16-1606, 000042) Project ends 8/31/2019

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Pennsylvania Department of Health (DD16-1605, 000031) Project ends 7/31/2019

Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
University of Pittsburgh (DD14-002, 001078) $66,985

Rhode Island

Population-Based Surveillance of Birth Defects and Data Utilization for Public Health Action
Rhode Island Department of Health (DD16-1601, 004943) $160,000

Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI- IS)
Rhode Island Department of Health (DD17-1701, 000073) $150,000

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Rhode Island Department of Health (DD16-1605, 000003) Project ended 7/31/2018

South Carolina

Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI- IS)
South Carolina Department of Health and Environmental Control (DD17-1701, 000069) $73,256

Coordinating Center for Research and Training to Promote the Health of People with Developmental and Other Disabilities
University of South Carolina, Columbia (DD17-001, 001218) $2,408,832

Improving the Health of People with Mobility Limitations and Intellectual Disabilities thru State-based Public Health Programs
University of South Carolina (DD16-1603, 000011) $440,000

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
South Carolina Department of Health and Environmental Control (DD16-1605, 000024) Project ends 7/31/2019

Surveillance and Research of Muscular Dystrophies and Neuromuscular Disorder
South Carolina Department of Health and Environmental Control (DD14-001, 001117) $500,000

Behavioral Risk Factor Surveillance System
South Carolina Department of Health and Environment (DP15-1513, 00605) $27,500

South Dakota
Tennessee
Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Tennessee Department of Health (DD16-1605, 000032)
Project ends 7/31/2019
Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
Vanderbilt University Medical Center (DD14-002, 001073) $67,188
Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
Vanderbilt University Medical Center (DD14-002, 001075) $20,530
Enhancing Public Health Surveillance of Autism Spectrum Disorders and other Disabilities through the Autism and Developmental Disabilities Monitoring (ADDM) Network
Vanderbilt University Medical Center (DD15-1501, 001170) $450,000

Texas
Population-Based Surveillance of Birth Defects and Data Utilization for Public Health Action
Texas Department of State Health Services (DD16-1601, 004942) $200,000
Fetal Alcohol Spectrum Disorders (FASD) Regional Training and Practice Centers
Baylor College of Medicine (DD14-1402, 001131) Project ended 9/29/18
Improving Fetal Alcohol Syndrome Disorder Prevention and Practice through National Partnerships
University of Texas, Austin (DD14-1403, 001147) Project ended 9/29/18
Reaching Healthcare Professionals in the Prevention of Fetal Alcohol Spectrum Disorders through National Professional Organizations
University of Texas at Austin (DD18-1803, 000009) $250,000
Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Texas Department of State Health Services (DD17-1701, 000052) $150,000
Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus-High Risk Local Areas
Houston Department of Health and Human Services (DD16-1606, 000045) Project ended 10/15/2018
Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Texas Department of State Health Services (DD16-1605, 000036) Project ended 7/31/2018
Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
Baylor College of Medicine (DD14-002, 001072) $66,776
Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
Baylor College of Medicine (DD14-002, 001070) $20,530
Public Health Research on Modifiable Risk Factors for Spina Bifida
University of Texas Health Science Center, Houston (DD15-001, 001179) Project ended 12/31/18

Utah
Surveillance of Congenital Heart Defects Across the Lifespan
University of Utah (DD15-1506, 004934) $450,000
Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Utah Department of Health (DD17-1701, 000089) $150,000
Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Utah Department of Health (DD16-1605, 000027)
Project ended 9/30/18

Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
IHC Health Services, Inc. (DD14-002, 001062)
$66,767

Virginia
Evaluation of Health Promotion and Prevention Programs for Blood Disorders
National Blood Clot Alliance (DD14-1405, 001153)
$365,045

Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI- IS)
Virginia Department of Health (DD17-1701, 000070)
$122,290

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Vermont Department of Health (DD16-1605, 000034)
Project ended 7/31/2018

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Vermont Department of Health (DD16-1605, 000008)
Project ended 1/31/19

Washington
Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI- IS)
Washington Department of Health (DD17-1701, 000078)
$250,000

Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
Seattle Children’s Hospital (DD14-002, 001065)
$66,429

Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
Seattle Children’s Hospital (DD14-002, 001064)
$20,530

Strengthening Public Health Systems and Services Through National Partnerships to Improve and Protect the Nation’s Health
Association of Maternal & Child Health Programs (OT18-1802, 000296)
$150,000

Vermont
Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI- IS)
Vermont Department of Health (DD17-1701, 000063)
$150,000

Improving the Health of People with Mobility Limitations and Intellectual Disabilities thru State-based Public Health Programs
Vermont Department of Health (DD16-1603, 000008)
$150,000
Expanding Efforts & Strategies to Protect & Improve Public Health Globally
Vsynova Partners, Inc (GH15-1632, 001732)
$620,000

West Virginia
Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
West Virginia Department of Health and Human Resources (DD16-1605, 000012)
Project ends 7/31/19

Wisconsin
Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI- IS)
Wisconsin Department of Health and Family Services (DD17-1701, 00055)
$250,000

District of Columbia
National Public Health Practice and Resource Centers on Health Promotion for People w/Disabilities
Special Olympics (DD16-1602, 001156)
$4,500,000
Supplemental Funding $1,800,000

Wyoming
Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI- IS)
Wyoming Department of Health (DD17-1701, 00058)
$148,225

Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE): Study to Explore Early Development (SEED) 3
University of Wisconsin, Madison (DD16-001, 001215)
$770,377

Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
Children’s Hospital of Wisconsin (DD14-002, 001063)
$67,060

Enhancing Public Health Surveillance of Autism Spectrum Disorders and other Disabilities through the Autism and Developmental Disabilities Monitoring (ADDM) Network
Board of Regents of the University of Wisconsin System (DD15-1501, 001176)
$550,000

Fetal Alcohol Spectrum Disorders (FASD) Regional Training and Practice Centers
Board of Regents of the University of Wisconsin System (DD14-1402, 001133)
Project ended 9/29/18

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Wisconsin Department of Health Services (DD16-1605, 000025)
Project ends 7/31/19

Improving Fetal Alcohol Syndrome Disorder Prevention and Practice through National Partnerships
American College of OB/GYN (DD14-1403, 001146)
Project ended 9/29/18

Reaching Healthcare Professionals in the Prevention of Fetal Alcohol Spectrum Disorders through National Professional Organizations
American College of OB/GYN (DD18-1803, 0000007)
$250,000

Improving Fetal Alcohol Syndrome Disorder Prevention and Practice through National Partnerships
National Organization on Fetal Alcohol Syndrome Prevention (DD14-1403, 001148)
Project ended 9/29/18

Promoting Resources for Fetal Alcohol Spectrum Disorders Awareness and Prevention
National Organization on Fetal Alcohol Syndrome Prevention (DD18-1801)
$400,000

OSTLTS Partnerships CBA of the Public Health System
American Public Health Association (APHA) (OT18-1802)
$13,712
Evaluation of Health Promotion & Prevention Program for Blood Disorders
Hemophilia Federation of America (DD14-1405, 001151)
$550,000

Research Approaches to Improve the Care and Outcomes of People Living with Spina Bifida
Spina Bifida Association (DD14-002, 001077)
$600,000

Puerto Rico

Population-Based Surveillance of Birth Defects and Data Utilization for Public Health Action
Puerto Rico Department of Health (DD16-1601, 004945)
$170,000

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Puerto Rico Department of Health (DD16-1605, 000037)
Project ends 7/31/2019

Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Puerto Rico Department of Health (DD17-1701, 000088)
$143,373

Virgin Islands

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Virgin Islands Department of Health (DD16-1605, 000022)
Project ends 7/31/2019

Guam

Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
University of Guam (DD17-1701, 00093)
$150,000

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Guam Department of Public Health and Social Services (DD16-1605, 000028)
Project ended 7/31/2018

American Samoa

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
American Samoa Department of Health (DD16-1605, 000039)
Project ended 7/31/2018

Commonwealth of the Northern Mariana Islands

Documentation and Use of Follow up Diagnostic and Intervention Services Data Through the Maintenance and enhancement of the Early Hearing Detection and Intervention Information System (EHDI-IS)
Commonwealth Healthcare Corporation (DD17-1701, 00059)
$65,040

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Commonwealth Health Corporation (DD16-1605, 000017)
Project ended 7/31/2018

Federated States of Micronesia

Surveillance, Intervention, and Referral to Services Activities for Infants with Microcephaly or Other Adverse Outcomes linked with the Zika Virus
Federated States of Micronesia (DD17-1702, 000051)
Project ends 1/31/2019

Switzerland

Global Prevention of NCD’s Prevention and Promotion of Health
World Health Organization (DD14-1420, 001235)
$540,140
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OUR VISION

Babies are born healthy.

Children reach their potential.

And everyone thrives.