



## **HRSA TBI Implementation Partnership Grant Project to Educate Primary Care Providers about TBI**

### **HRSA**

HRSA (Health Resources and Services Administration) is a division of the Maternal and Child Health Bureau, within the U.S. Health and Human Services Department. HRSA oversees the Federal TBI (Traumatic Brain Injury) Program and the TBI grants awarded to State Agencies. New Mexico's Aging and Long-Term Services Department was awarded a 3-year grant with a term from April 1, 2009 - June 30, 2009.

### **The Goals of the HRSA grant**

The State of New Mexico's Aging and Long-Term Services Department has produced three educational DVDs, which were designed to improve the identification of Traumatic Brain Injuries by providers in specific sectors of the Primary Care Workforce. These sectors include Primary Care Medical Providers, Native American Community Health Representatives, and Head Start Providers. The DVDs were produced for nationwide distribution *and can be customized for use by other States, organizations, or institutions to include descriptions of State Brain Injury Services, BIAs, and other local or institution-specific resources.* New Mexico's Brain Injury Program is currently within the Human Services Department.

### **Why These Goals Are Important**

#### **What happens when an individual sustains a Mild Traumatic Brain Injury?**

When an individual sustains a mild head injury, he/she may or may not seek medical care in a hospital emergency room. Even if such care is sought, it is often the case that such individuals will be released prematurely. This is due to the fact that in the primary stages of the injury, current diagnostic tests are not always able to detect significant damage. Indeed, most mild head injuries are not correlated with any visible exterior damage. The fact remains, that while the initial damage is not readily detectable, it often results in subtle disruptions of the physical structures that connect different parts of the brain to one another. Such damage also sets off a cascade of secondary damage effects, including inflammation, within and around stressed neurons, or brain cells, in localized regions of the brain. This secondary damage may lead to die-off of the stressed neurons and cause new symptoms to arise that were not evident shortly after the primary injury. Some symptoms may not appear directly after the primary injury and may not be correlated with the primary injury, causing a delay in diagnosis and treatment.

Every brain injury is different and the extent of damage depends on the location of the injury, the force of the impact, and the health and age of the individual; these differences will result in the presentation of symptoms that vary from head injury to head injury. While some head injuries may noticeably affect physical function, Mild TBI often results in cognitive, emotional, and/or perceptual changes, which are due to disruptions of the physical structure and/or neuro-chemical balance in regions of the brain that govern these functions.

**Who can individuals, who don't understand they may have acquired a brain injury, rely upon to help them address their symptoms?**

*Medical Professionals:*

Individuals, who are troubled with unexplained symptoms, that do not have an obvious physical cause, will often seek the help of their Primary Care Physician. It is, therefore, critical that Physicians, Nurses, Certified Nurse Practitioners, and Physician Assistants have an awareness and understanding of Mild TBI and regularly screen their patients for Brain Injury, as they would any other organ system of the body, especially since the brain controls the function of these organ systems. Too often, Primary Care Medical Practitioners will misattribute symptoms that have no obvious physical basis to stress, age, or psychological problems, leading to misdiagnosis. Increasing the awareness and recognition of Brain Injury among Medical Professionals is critical for accurate diagnosis and appropriate referrals for treatment and accessing of State services. Correct and early diagnosis combined with effective treatment is critical in improving recovery outcomes for Individuals with Brain Injury.

HRSA/ALTSD has produced an award-winning documentary-style DVD for distribution to doctors, hospitals, and clinics throughout NM and the nation. These productions feature nationally renowned Brain Injury experts, from a variety of diverse fields and perspectives, including neurosurgery, neuropsychology, neuropsychiatry, rehabilitation medicine, and nursing. The DVD has won 5 Bronze Telly awards in the categories of Film and Video Documentary, Film and Video: Health and Wellness, Online Video Education (2), and Online Video Documentary. Continuing Medical Education credits were available through the Brain Trauma Foundation from 2009-2012. *The NM Human Services Department's Brain Injury Program welcomes a new co-sponsor accredited with the ACCME and AACN for Continuing Medical Education associated with these projects.*

*Native American Community Health Representatives:*

The Native American population is a medically underserved sector of Americans, who for reasons associated with cultural differences and geographic isolation, do not have the same access to healthcare as other Americans. The Community Healthcare Representatives serve this population's healthcare needs. As such, they require an awareness and understanding of TBI, so that Native Americans can be accurately diagnosed and apprised of their treatment options as well as the Tribal and State services available to them. The documentary-style DVD produced for this audience features Brain Injury and Native American experts, who speak sensitively to the needs and culture of this population.

*Head Start Providers:*

Young children, ages 0 - 4, are especially vulnerable to fall-related head injuries, due to their underdeveloped sense of balance and muscular coordination. Young children do not have the awareness, language, or communication skills to alert their caregivers of any symptoms they may be experiencing. Too often, such children are labeled with behavioral problems or mental deficiencies that impact the remainder of their lives. It is, therefore, critical that the Primary Care Provider workforce, serving this population, has an awareness of TBI and is able to recognize TBI symptoms, so that these children receive prompt medical treatment and access to State services to improve their recovery outcomes. The documentary-style DVD produced for Head Start Providers and their staff features a variety of Brain Injury and childhood health experts.

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*For additional information about these DVDs or permission to customize them for use by other States, organizations, or institutions, please contact Linda Gillet, Ph.D. at [lindab.gillet@state.nm.us](mailto:lindab.gillet@state.nm.us) or call 505-827-7218.*

*For additional information about Brain Injury or accessing State services for Individuals with Brain Injury, contact the NM Brain Injury Resource Center at 1-855-849-0921.*

## **HRSA/ALTSD DVD for Medical Providers**

**Title:** *The Silent Epidemic: Mild Traumatic Brain Injury (Winner of 5 Bronze Telly Awards)*

**Target Audience:** Physicians, Nurses, Certified Nurse Practitioners, and Physician Assistants

**Contents:**

**“Part 1: Identification and Diagnosis” (Running time: 60 minutes)**

**Course Outline:**

- “Epidemiology”
- “Definitions”
- “Causes, Incidence, and Populations”
- “Effects of TBI: Biomechanics and Pathophysiology”
- “The Personal and Societal Cost of TBI”
- “Diagnosis: Signs and Symptoms”
- “Taking a History and Screening for Brain Injury”
- “Neuroimaging and Neuropsychological Evaluations”

**“Part 2: Management of MTBI” (Running Time: 48 minutes)**

**Course Outline:**

- “Role of the Primary Care Provider: Team Captain and Advocate”
- “Best Paradigm of Care: Treatment Overview”
- “Medical Complications”
- “Medications to Manage Symptoms”
- “Culturally Competent Care”
- “Return to Activity/Work”
- “Optimizing Recovery: Structuring Office Visits”
- “Optimizing Recovery: Patient and Family Education”
- “Referral”

**Additional Materials** (This section can be customized with permission for use by other States, organizations, or institutions to include video or PDF information or resources specific to the interested entity.)

- Description of NM State Brain Injury Services
- Description of the Brain Injury Association of New Mexico
- Segment on Completing State Medicaid eligibility paperwork for State Brain Injury Services (ICD-9 Code form; Long-Term Care Assessment Abstract); introduced by Alya Reeve, MD, Neuropsychiatrist, University of New Mexico.

**Presenters:**

**Narrator:** Carla Aragón

**Steven Flanagan, M.D.**, Professor and Chairman of Rehabilitation Medicine, Rusk Institute of Rehabilitation Medicine, NYU School of Medicine

**Wayne A. Gordon, Ph.D.**, Professor of Rehabilitation Medicine, Mount Sinai School of Medicine

**David A. Hovda, Ph.D.**, Director, UCLA Brain Injury Research Center, Professor of Neurosurgery and Molecular Medical Pharmacology

**Neera Kapoor, O.D., M.S., FFAO**, Associate Clinical Professor and Director, Raymond J. Greenwald Rehabilitation Center, SUNY State College of Optometry

**Robert Karol, Ph.D., L.P., A.B.P.P.**, Director, Psychology/Neuropsychology & Brain Injury Services, Bethesda Hospital, St. Paul, MN

**James F. Malec, Ph.D., A.B.P.P.**, Emeritus Professor of Psychology, Mayo Clinic, Rochester; Director of Research, Rehabilitation Hospital of Indiana

**Anne Moessner, R.N., M.S.N., C.R.R.N.**, TBI Clinical Nurse Specialist, Assistant Professor Mayo Clinic Dept. of Nursing; Project Coordinator, Mayo TBI Model System, Mayo Clinic, Rochester, MN

**Margaret Moss, Ph.D., R.N., J.D.**, Associate Professor, University of Minnesota School of Nursing.

**George P. Prigatano, Ph.D.**, Newsome Chair, Department of Clinical Neuropsychology, Barrow Neurological Inst.

**Angelle M. Sander, Ph.D.**, Associate Professor, Dept. of Physical Medicine and Rehabilitation / Baylor College of Medicine. Director, Brain Injury Research Center of **Memorial Hermann | TIRR**, Houston

**Jonathan M. Silver, M.D.**, Professor of Neuropsychiatry, NYU School of Medicine

**Nicholas Theodore, M.D.**, Neurosurgeon, Director of Neurotrauma, Barrow Neurological Institute

**Executive Producer:** Linda Wodarczyk Gillet, Ph.D., Brain Injury Program Manager, New Mexico Human Services Department

For additional information about these DVDs or permission to customize them for use by other States, organizations, or institutions, please contact Linda Gillet, Ph.D. at [lindab.gillet@state.nm.us](mailto:lindab.gillet@state.nm.us) or call 505-827-7218.

For additional information about Brain Injury or accessing State services for Individuals with Brain Injury, contact the NM Brain Injury Resource Center at 1-855-849-0921.

## **HRSA/ALTSD DVD for Native American Community Health Representatives**

**Title:** *The Critical Link: CHR's and Brain Injury in Indian Country* (Running Time: 33 minutes)

**Target Audience:** American Indian / Alaska Native Community Health Representatives (I.H.S. or Tribal); also useful for Public Health Nurses.

### **Contents:**

#### **"The Critical Link: CHR's and Brain Injury in Indian Country"**

- "TBI Among American Indians and Alaska Natives"
- "Defining TBI"
- "The Causes and Incidence of TBI Among Native Americans"
- "Common Symptoms of TBI and its Effects"
- "There is Direction..."
- "There is Support..."
- "There is Hope..."

#### **Additional Materials**

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- Segment on Completing State Medicaid eligibility paperwork for State Brain Injury Services (ICD-9 Code form; Long-term Care Assessment Abstract), introduced by Alya Reeve, MD, Neuropsychiatrist, University of New Mexico.

### **Presenters:**

**Narrator:** Conroy Chino

**Alta M. Bruce** (*Turtle Mountain Chippewa*); Founder, Indigenous People's Brain Injury Association; Program Coordinator, Native Nurses Opportunity Program, University of Minnesota School of Nursing

**Karen Duboise** (*Sioux*) Fort Peck, MT

**Carlos Jose Garza** (*Sioux*) Standing Rock, ND

**Darryl Hall** (*Mandan, Hidatsa, Arickara*), Director of CHRs, Three Affiliated Tribes, Fort Berthold, ND

**Evelyn Klimpel** (*Hidatsa, Crow, Mandan*), Co-chair, Indigenous People's Brain Injury Association

**Deborah M. Little, Ph.D.**, Assistant Professor, Director of MR Research, Department of Neurology & Rehabilitation, University of Illinois Chicago College of Medicine

**Glen Lowley, Jr.** (*Navajo*), Crownpoint, NM

**James F. Malec, Ph.D., A.B.P.P.**, Emeritus Professor of Psychology, Mayo Clinic, Rochester, MN; Director of Research, Rehabilitation Hospital of Indiana

**Margaret Moss, Ph.D., R.N., J.D.**, Associate Professor, University of Minnesota School of Nursing

**Bruce D. Murry, J.D.**, North Dakota Protection and Advocacy

**Molly E. Patton, M.P.H., R.E.H.S.**, Minot District Environmental Health Officer, Aberdeen I.H.S.

**D. J. Eagle Bear Vanas** (*Odawa*), Author, Motivational Speaker

**Therese E. Yanan, J.D.**, Executive Director, Native American Disability Law Center

**Executive Producer:** Linda Wodarczyk Gillet, Ph.D., Brain Injury Program Manager, New Mexico Human Services Department

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## **HRSA/ALTSD DVD for Head Start Providers**

**Title:** *In Harm's Way: Traumatic Brain Injury in Young Children* (Running Time: 33 minutes)

**Target Audience:** Head Start Providers

**Contents:**

- "TBI: Definition, Causes, and Incidence in Young Children"
- "Importance of Early Diagnosis and Effects of Delayed Diagnosis"
- "Failures in Identification"
- "Shaken Baby Syndrome and Normal Infant Crying"
- "Common Signs & Symptoms of TBI in Children"
- "Dealing with Undiagnosed but Suspected TBI"
- "Follow-Up on Known TBIs"
- "Prevention"

**Additional Materials**

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- Description of the Brain Injury Association of New Mexico

**Presenters:**

**Narrator:** Carla Aragón

**Marilyn Barr**, Founder & Executive Director, National Center on Shaken Baby Syndrome

**Steven Flanagan, M.D.**, Professor and Chairman of Rehabilitation Medicine, Rusk Institute of Rehabilitation Medicine, New York University School of Medicine

**Wayne A. Gordon, Ph.D.**, Jack Nash Professor of Rehabilitation Medicine, Mount Sinai School of Medicine

**David A. Hovda, Ph.D.**, Director, UCLA Brain Injury Research Center, Professor of Neurosurgery / Molecular and Medical Pharmacology

**Deborah M. Little, Ph.D.**, Assistant Professor, Director of MR Research, Department of Neurology & Rehabilitation, University of Illinois Chicago College of Medicine

**James F. Malec, Ph.D., A.B.P.P.**, Emeritus Professor of Psychology, Mayo Clinic, Rochester, MN; Director of Research, Rehabilitation Hospital of Indiana

**Mark Pedrotty, Ph.D.**, Clinical and Rehabilitation Psychologist, UNM Health Science Center, Pediatric Unit

**Jennie L. Ponsford, Ph.D.**, Professor of Neuropsychology, Monash University; Director of the Monash-Epworth Rehabilitation Research Center, Melbourne, Australia

**George P. Prigatano, Ph.D.**, Newsome Chair, Dept. of Clinical Neuropsychology, Barrow Neurological Institute

**Diana Read**, Director of Injury/Violence Prevention Programs, North Dakota Injury Prevention and Control Division

**Executive Producer:** Linda Wodarczyk Gillet, Ph.D., Brain Injury Program Manager, New Mexico Human Services Department

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