

## BRAIN INJURY AND ITS IMPACT ON MICHIGAN RESIDENTS

PRESENTATION TO  
SENATE HEALTH POLICY COMMITTEE  
MARCH 22, 2012



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## TBI IN THE UNITED STATES

- In America, 7 million people live with lifelong disabilities as a result of TBI.
- An estimated 1.7 million people sustain a TBI annually. Of them:
  - 52,000 die, *(1,520 die in Michigan)*
  - 275,000 are hospitalized, *(10,700 are hospitalized in Michigan)* and
  - 1.365 million, nearly 80%, are treated and released from emergency departments *(46,000 visit ERs in Michigan)*
  - TBI is a contributing factor to a third (30.5%) of all injury-related deaths in the United States.
- Over 98,000 Michigan residents are living with a TBI – enough to fill the Big House!
  - *Military TBI is not included in any data.*



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## Brain Injury Definitions

### Acquired Brain Injury (ABI)

An ABI is an injury to the brain that has occurred after *birth* and is not hereditary, congenital or degenerative. The injury commonly results in a change in neuronal activity, which affects the physical integrity, the metabolic activity, or the functional ability of the cell. The term does not refer to brain injuries induced by birth trauma. Includes TBI and injuries caused by an *internal insult* to the brain. *Brain Injury Association of America (1997)*

### Traumatic Brain Injury (TBI)

TBI is defined as an alteration in brain function, or other evidence of brain pathology, caused by an external force. *Brain Injury Association of America (2011)*

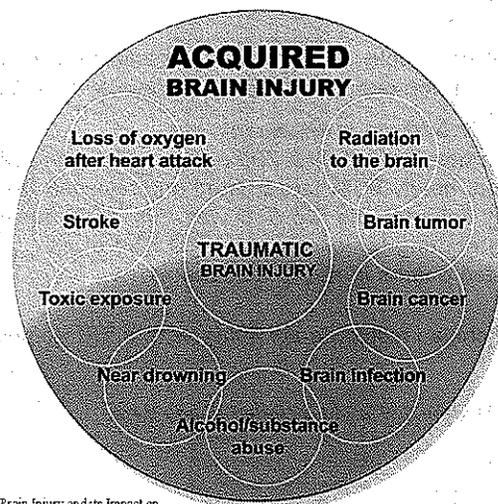


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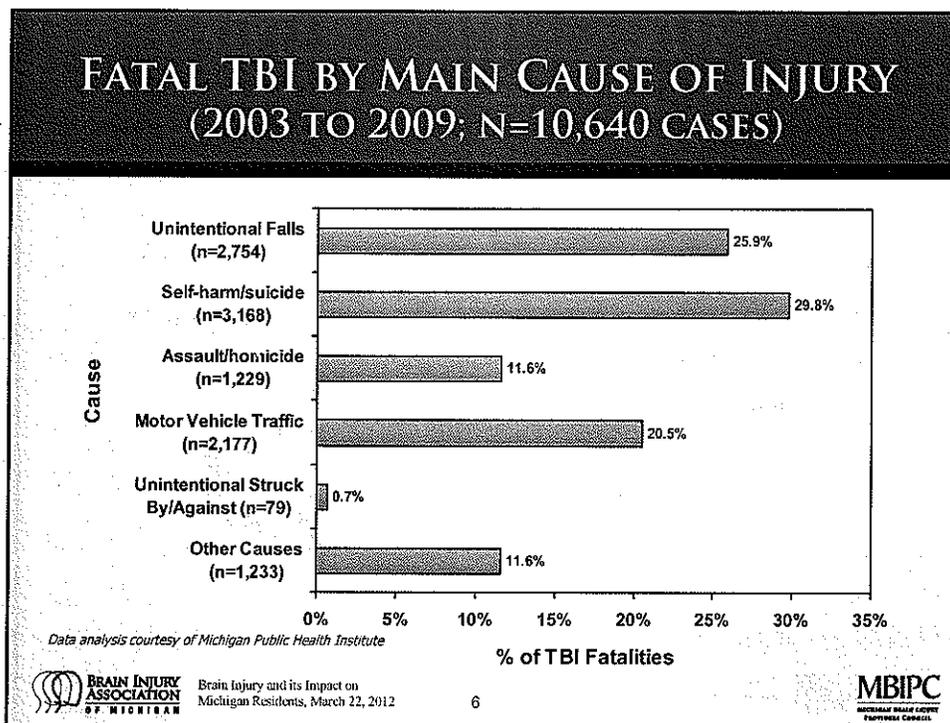
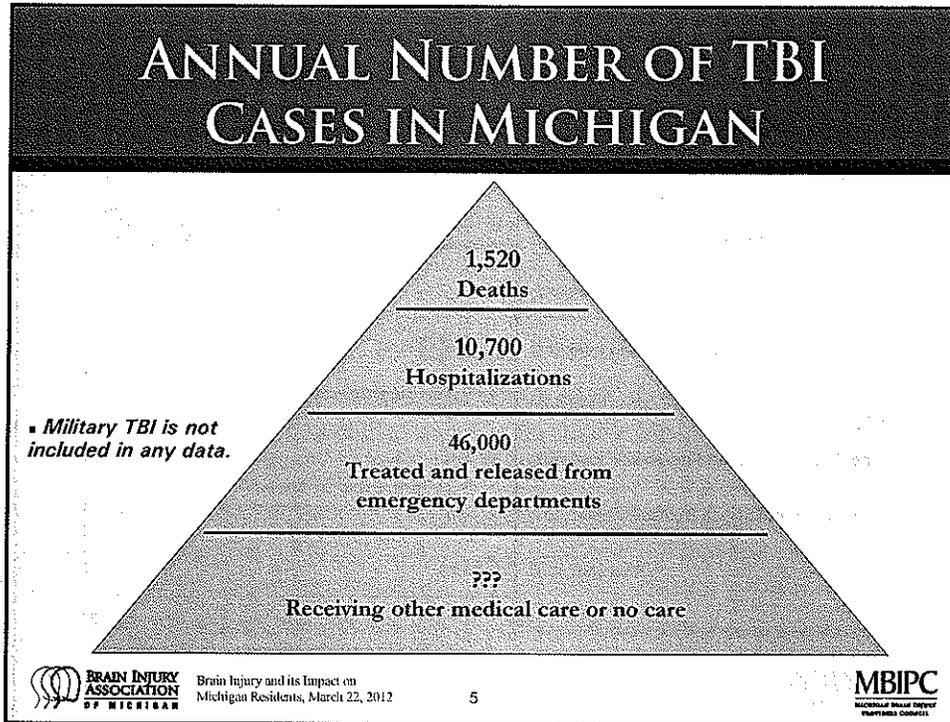
## WHAT IS ACQUIRED BRAIN INJURY

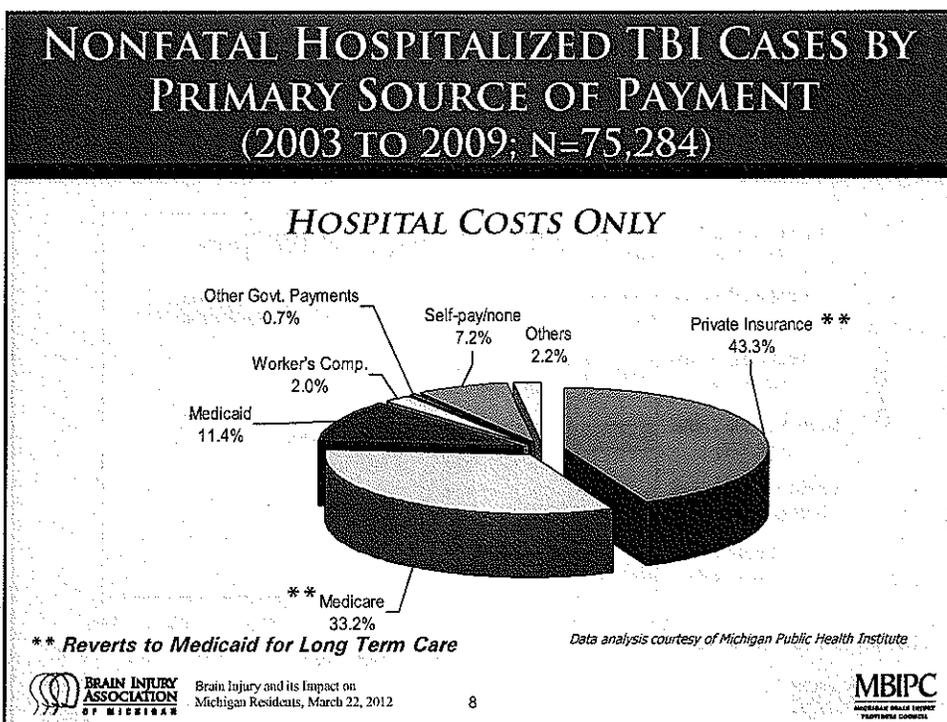
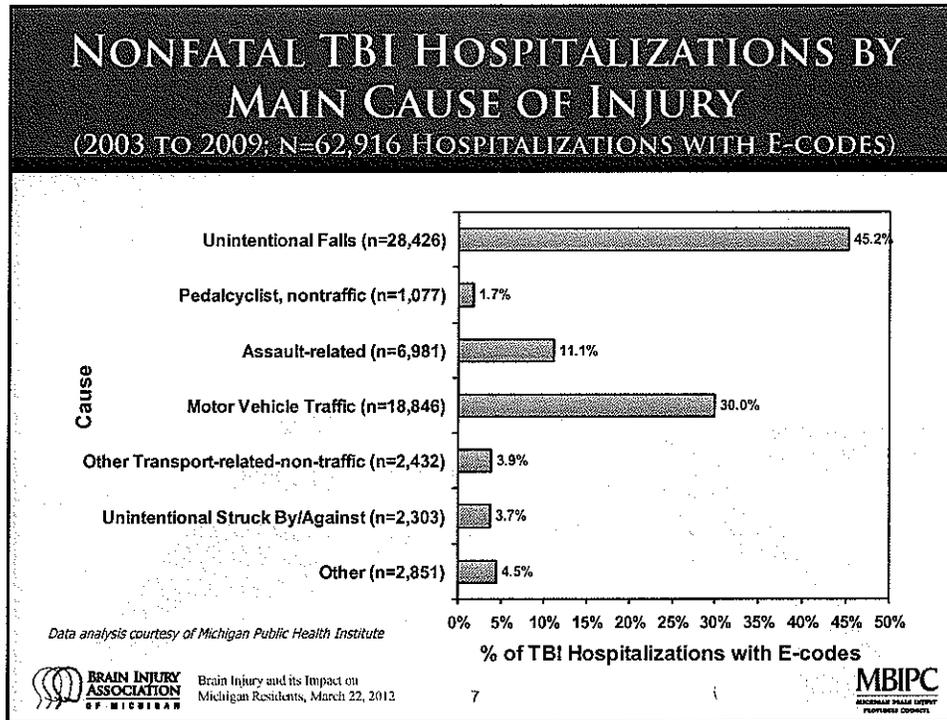


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## COSTS OF TRAUMATIC BRAIN INJURY

Nationally traumatic brain injuries costs, in direct medical costs and indirect costs of TBI in the U.S., such as lost productivity, totaling an estimated **\$76.5 billion**.



- In Michigan our costs = **\$2.4 billion**.



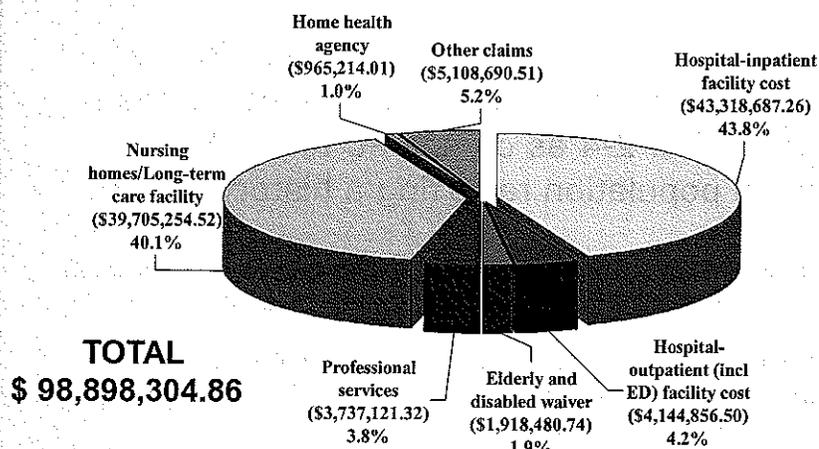
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## TBI Cost Information by Provider Category, Medicaid-FFS (only!)

(FY2002 – 2006)



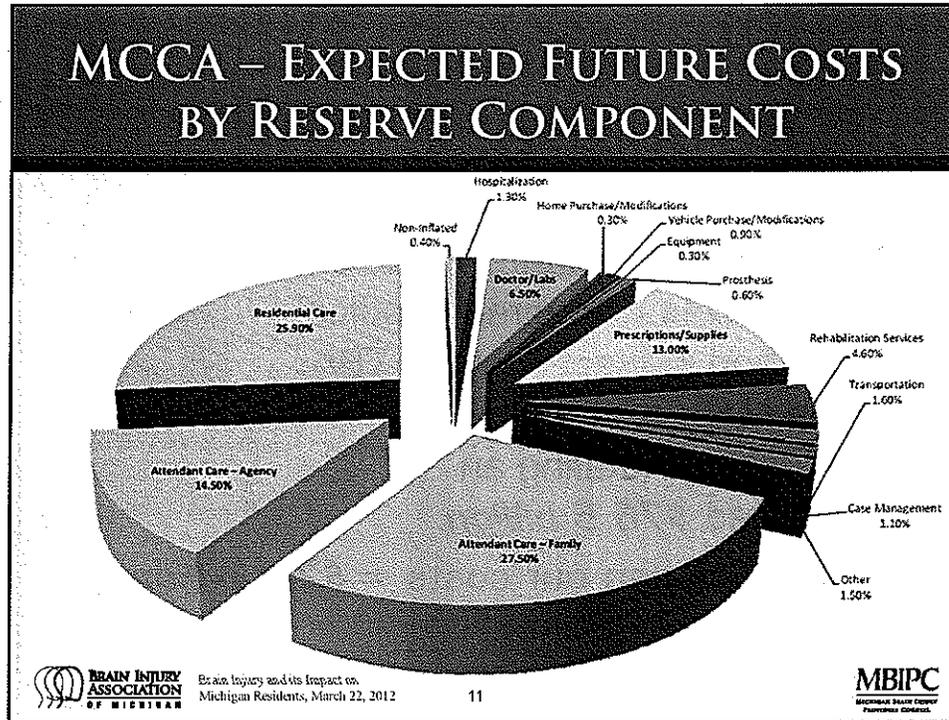
Data analysis courtesy of Michigan Public Health Institute



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## PRISONS

- According to jail and prison studies, 25-87% of inmates report having experienced a head injury or TBI 2-4 as compared to 8.5% in a general population reporting a history of TBI.
  - Among male prisoners, a history of TBI is strongly associated with perpetration of domestic and other kinds of violence.
  - Women inmates who are convicted of a violent crime are more likely to have sustained a pre-crime TBI and/or some other form of physical abuse.

## LEGISLATIVE ISSUES – ACCESS TO CARE & PREVENTION

- **Current Issues**
  - Protect the MI Auto No-Fault Law
  - Support TBI Medicaid Waiver for Home and Community Based Services
  - Improve access to cognitive rehabilitation under commercial health insurance
  - Improve access to cognitive rehabilitation
    - Tri-Care lack of coverage affect
    - Impact on Michigan
    - Pre and Post neuro-cognitive screening



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## LEGISLATIVE ISSUES – PREVENTION

- **Michigan Brain Injury Act** - Michigan must address the disparity of available services through a comprehensive statewide plan to address the needs of ALL individuals with brain injuries.
- **Sports Concussion** - Create legislation this summer that will direct teams and coaches using public facilities to utilize guidelines in the identification and return to play guidelines for all youth and high school athletes.
- **Motorcycle Helmet Repeal** – Strong advocate to prevent repeal of helmet law.
- **Falls / Prevention** – Collaborate with other organizations to provide various prevention programs and activities.
- **Mental Health Funding** – Funding reductions significantly impacts persons with brain injuries
- **Child & Domestic Abuse Prevention**



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## BRAIN INJURY ASSOCIATION OF MICHIGAN (BIAMI)

### Who We Are ...

A group of concerned families living with brain injury founded the Association over 30 years ago to ensure that needed support and services were available for people with brain injuries and their families.

Incorporated in 1981, the Association was one of the first state associations chartered by the Brain Injury Association of America and remains among the strongest in the nation.



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PREVENTION COUNCIL

## BRAIN INJURY ASSOCIATION OF MICHIGAN (BIAMI)

### MISSION

To enhance the lives of those affected by brain injury through education, advocacy, research, and local support groups; and to reduce the incidence of brain injury through prevention.



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## BRAIN INJURY ASSOCIATION OF MICHIGAN (BIAMI)

### Goals:

- **Support** – toll free number, information & referral
- **Education** – nation's largest conference (1,400+), training for Academy of Certified Brain Injury Specialists
- **Advocacy** – public policy involvement
- **Research** – leadership in S.E. Michigan TBI Advisory Board, Ohio Valley Head Injury Center and work with Brain Injury Research Center-TIRR Memorial Hermann.
- **Prevention** – helmets, fall prevention and sports concussion



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## MICHIGAN BRAIN INJURY PROVIDER COUNCIL (MBIPC)

- Established in 1987
- Purpose
  - Enhance the ability of its members to provide
    - High quality ethical rehabilitation, health care, and related services
  - Accomplished through
    - Resource sharing and information exchange
    - Professional development and education
    - Promotion of beneficial legislation
    - Advocacy and support for the Brain Injury Association



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## MICHIGAN BRAIN INJURY PROVIDER COUNCIL (MBIPC)

- 115+ member organizations
  - Medical Rehabilitation Providers
    - Acute Care Hospitals
      - Inpatient, Outpatient Rehabilitation
    - Residential Rehabilitation Facilities
      - Short term, Long term
      - Medical, Behavioral
    - Home and Community Services
      - Home Care, Home/Community Rehab, Transportation
    - Vocational Rehabilitation/Day Treatment Providers
    - Case Management Providers
  - Physicians, Pharmacies, Guardians, Law Firms, Specialized Construction, Transportation



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## MICHIGAN BRAIN INJURY PROVIDER COUNCIL (MBIPC)

- Employ over 15,000 Michigan Citizens
- Medical/Allied Health Professions
  - Physicians and nurses
  - Physical and occupational therapists
  - Speech pathologists and mental health clinicians
  - Vocational and recreation therapists
  - Medical case managers
- Paraprofessionals
  - Nursing assistants
  - Personal care attendants
  - Home health assistants



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## FOR MORE INFORMATION

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1944-1945  
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