GOVERNOR’S TASK FORCE ON TRAUMATIC BRAIN INJURY: EXECUTIVE ORDER NO. 13-02, 2013

REPORT ON FINDINGS AND RECOMMENDATIONS

August 2016 - Updated May 2018
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TABLE OF CONTENTS

GTF Members and Expert Consultants ................................................................. 2
EXECUTIVE SUMMARY ...................................................................................... i
  Purpose .........................................................................................  i
  Background .............................................................................. i
  Task Force Findings .................................................................. ii
    Gaps in services and related challenges .................................. ii
    Statewide recommendations to address gaps in care .......... iii
REPORT ON FINDINGS AND RECOMMENDATIONS ........................................ 1
  Our Vision ..................................................................................  1
I. BACKGROUND ......................................................................................... 1
  TBI in Oregon ........................................................................... 3
II. OVERVIEW OF THE PROCESS ................................................................. 6
  A. Participants .......................................................................... 6
  B. Sub-Committee Process/Analysis ........................................ 7
III. STRENGTHS & GAPS ............................................................................. 7
  A. Strengths ........................................................................... 8
  B. Gaps ............................................................................... 14
IV. SUMMARY ......................................................................................... 28
V. STATEWIDE RECOMMENDATIONS ......................................................... 29
  Figure 1. Overview of Oregon’s plan to improve services and supports for individuals with brain injury and their families .......... 33
  Figure 2. Example of services and supports sequence and long term outcomes ........................................ 34
Conclusion & Acknowledgements ................................................................. 35
Endnotes ................................................................................................. 36
References — State Agencies & Community Partners .................................. 42
APPENDIX A: Executive Order No. 13-02 ..................................................... 43
APPENDIX B: GTF Members and Expert Consultants ................................. 49
APPENDIX C: Overview of Oregon’s TBI-Related Legislation & Initiatives ...... 51
APPENDIX D: Agency-Specific Recommendations ....................................... 54
APPENDIX E: Supplemental Information 2016–2018 ................................ 58
  Traumatic Brain Injury Costs in Oregon .......................................... 60
Potential for Cost Savings ................................................................. 60
Governor’s Task Force Recommendations ........................................ 60
Bibliography for TBI Costs in Oregon ............................................. 62
GOVERNOR’S TASK FORCE ON TRAUMATIC BRAIN INJURY

EXECUTIVE SUMMARY

PURPOSE

The purpose of the Governor’s Task Force (GTF) on Traumatic Brain Injury (TBI) (Executive Order No. 13-02, 2013) was to (1) identify the gaps in Oregon’s public and private sector system of services for individuals with brain injury; and (2) make policy recommendations to address those gaps.

BACKGROUND

Traumatic brain injury (TBI) is a sudden bump, jolt, or blow to the head or penetrating injury that disrupts the normal function of the brain. TBI is a significant national public health problem, affecting people of all ages and cultural backgrounds. Non-traumatic causes of brain injury include stroke, heart attack, anoxia, toxicity, tumors, encephalitis, and meningitis. Individuals with brain injury experience a complex blend of physical, sensory, cognitive, behavioral, and psychological challenges that defy easy categorization, making it difficult for them to access coordinated, culturally sensitive services and staff trained to serve their unique needs on an ongoing basis.
TASK FORCE FINDINGS

For this report, stakeholders with brain injury, their families, and service providers identified areas of strengths in Oregon’s brain injury-related services and programs. These include support and advocacy groups, legislation, and TBI prevention efforts. Several gaps were identified.

GAPS IN SERVICES AND RELATED CHALLENGES

1. Lack of culturally sensitive services and resources
2. Lack of adequate education and training about brain injury, including the lack of a standardized screening protocol
3. Complex, siloed service networks making it difficult to access services
4. Family members serving as unpaid caregivers
5. Financial hardships and difficulty accessing federal and state benefits
6. Difficulties dealing with private insurance and accessing appropriate treatment options
7. Lack of affordable, appropriate housing
8. Challenges with co-occurring mental health disorders and addictions
9. Lack of adequate vocational training and employment opportunities
10. Lack of TBI identification and appropriate supports in the schools
11. Challenges identifying and managing TBI in the corrections system
STATEWIDE RECOMMENDATIONS TO ADDRESS GAPS IN CARE

Recommendation 1. Increase educational outreach to:

- train professionals, administrators, and service providers across multiple fields and organizations, including medicine, rehabilitation, mental health, social work, education, and state agencies;

- promote a standardized approach to (a) screening for TBI in the medical and allied health communities and (b) identifying the need for services among individuals with brain injury across state agencies and private sector entities; and

- support community partners, emphasizing brain injury resource education and coordination of services.

Recommendation 2. Establish a TBI Clinical Registry based on the current TBI Data Registry that would:

- provide a history of traumatic events;

- be available for clinical purposes, including TBI screening/assessment to determine eligibility for services, treatment planning, and case management;

- be accessible, with patient consent, to designated medical, educational, and services providers; and

- establish a universally understood definition of TBI.

Recommendation 3. Establish a centralized, comprehensive, culturally sensitive, easy-to-navigate statewide map of brain injury services and supports (web-based and hard copy), framed around key stakeholder questions/needs and including a technical assistance program to support its use.
Recommendation 4. Establish a statewide program of care coordinators specifically trained to serve individuals with brain injury and their family members across cultures and age ranges, who will assist them in navigating resources, services, supports, and benefits and maintain regular contact.

Recommendation 5: Develop an equitable system of care and services that provides medical care, vocational training, affordable/appropriate housing options, and an array of long-term services and supports for those with severe injuries and behavior challenges and those with co-occurring mental health or addiction issues. This recommendation would meet the requirements of federal Home and Community Based Services standards and the ADA.

Recommendation 6. Develop and implement a communication system to improve coordination across agencies, including the medical community, social services, and schools. This coordination should support individuals transitioning between systems, especially children as they age out of the educational system and juvenile social service programs.

Recommendation 7. Establish sustainable, equitable funding mechanisms to support implementation of recommendations 1–6. These could include:

- establishing a TBI-specific program (e.g., targeted Medicaid funds to support community-based living);
- ensuring family caregivers receive compensation to help replace income lost while they cared for a family member with a brain injury;
- ensuring the same level of financial support and service, regardless of age of injury or severity of injury; and
- addressing the issue of insurance negotiated in bad faith regarding payment for necessary medical care and covered living expenses.
Program Note: Some stakeholders suggested that Oregon apply for and administer a TBI Waiver. TBI Waivers usually refer to a Medicaid funding authority (i.e., 1915(c)) that allows states to develop TBI specific services and supports. Oregon currently uses the 1915(k) Community First Choice funding authority. The 1915(k) allows Oregon the same flexibility as a 1915(c) provides. State agency representatives believe the state has the opportunity to develop a more comprehensive service array that takes advantage of all of the services and flexibility allowed in the 1915(k). The 1915(k) also provides more federal revenues than a 1915(c), stretching state resources further. See Appendix D, Department of Human Services, pg. 55.

Recommendation 8. Establish a high-level staff position in the Office of the Governor named the Governor’s Brain Injury (BI) Coordinator and Advocate. This individual will (a) report to the governor and (b) be charged with implementing the recommendations of the GTF to ensure the State of Oregon improves its primary and secondary prevention of TBI and care for people living with brain injury. Funding for the position and support staff will be provided and shared by the Oregon Health Authority and the Oregon Departments of Veterans’ Affairs, Education, Human Services, and Corrections. The Coordinator will work with state agency staff and private sector community partners to develop and improve the delivery of preventive actions and improve the coordination of effective care. Where legislation or administrative rule changes are needed, the Coordinator will advocate for the necessary changes. The BI Coordinator-Advocate will also work closely with the community of people with brain injury. The position will be limited to a five-year tenure.

(NOTE: Agency-specific recommendations are described in Appendix D, pg. 54 of this report.)
GOVERNOR’S TASK FORCE ON TRAUMATIC BRAIN INJURY

REPORT ON FINDINGS AND RECOMMENDATIONS

OUR VISION

The vision of the Governor’s Task Force on TBI is that Oregon will establish and maintain a comprehensive, public–private system of coordinated care and supports for individuals with brain injury of all ages, severity levels, and backgrounds that facilitates maximum community engagement and quality of life.

I. BACKGROUND

Traumatic brain injury (TBI) is a sudden bump, jolt, or blow to the head or penetrating injury that disrupts the normal function of the brain. TBI is a significant national public health problem.

- Each year, an estimated 1.7 million people in the United States sustain TBIs through falls, unintentional blunt trauma, motor vehicle collisions, firearm incidents, and sports activities.\(^1,2\)
- Of particular concern is violence-related TBI, with at least 156,000 deaths, hospitalizations, and emergency department visits in the U.S. each year due to TBI-related assaults,\(^3\) including domestic partner violence.\(^3\)
Even though most TBIs are classified as "mild," they can still have an extremely serious effect on everyday life; a concussion is a mild TBI.\(^1\)

Sports-related concussions have gained increased public attention in recent years and account for up to 5% of all emergency department visits.\(^4,5\) Chronic traumatic encephalopathy is a degenerative condition that is potentially associated with repeated brain injuries,\(^6\) including repeated sports-related concussions.\(^7\)

Estimates suggest that almost 125,000 of the people injured each year will experience permanent disability resulting from significant changes in social, behavioral, physical, and cognitive functioning.\(^8\)

The CDC estimates that the economic costs of TBIs in 2010 were $76.5 billion, including $11.5 billion in direct medical costs and $64.8 billion in indirect costs (e.g., lost wages, lost productivity, and nonmedical expenditures).\(^9,10\)

TBI is the signature injury of the Afghanistan and Iraq wars.\(^11\) Of the blast-exposed patients treated at Walter Reed Army Medical Center, 59% were diagnosed with TBI.\(^12\)

Up to 53% of individuals who are homeless have sustained a TBI.\(^13\) The rate of TBI in the general population is 8.5% (see also TBI in Oregon).\(^14\)

Added to those numbers are those who experience brain injury due to other causes. *Acquired brain injury* is the term used to describe damage to the brain resulting from traumatic causes (i.e., TBI) and non-traumatic causes, including stroke, heart attack, anoxia, toxicity, tumors, encephalitis, and meningitis. The focus of this GTF was on TBI; however, individuals with brain injury, regardless of the cause, have similar needs. Recommendations in this report will therefore have

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**Non-traumatic causes of brain injury include stroke, heart attack, anoxia, toxicity, tumors, encephalitis, and meningitis.**
broad applicability to individuals with all types of brain injury.

TBI IN OREGON

Nationally, the estimated number of people living with disability as a result of TBI ranges from 2% to 8.5% of the general population.\textsuperscript{14,15} With a population of 4.1 million, it is estimated that between 82,000 and 348,500 Oregonians currently live with TBI-related disability. Approximately 3,000 individuals are added to that number every year.\textsuperscript{16} These numbers likely underestimate the problem because mild TBIs or concussions frequently go unreported.\textsuperscript{17} Thousands are not hospitalized but still experience life-altering changes (e.g., job loss), often due to a missed diagnosis or misdiagnosis.

- There are currently 266 students with TBI on Individual Education Plans\textsuperscript{18} and approximately 5,000 students who need some other type of formalized support, including 504 plans.\textsuperscript{A}
- In Oregon, there are 1,071 veterans with combat-related TBIs from the wars in Iraq and Afghanistan. Of those, 85% have mild TBI, 7% moderate TBI, and 3% severe TBI. Veterans with non-combat related TBIs and those who served in other wars are not tracked.\textsuperscript{19}
- State agency personnel reports indicate that more than 1,700 veterans, many of whom may have a brain injury, have received services through Oregon’s Office of Aging and People with Disabilities.\textsuperscript{20}
- The exact number of individuals with TBI in the Oregon corrections system is unknown because of challenges with self-reporting TBI and multiple co-occurring diagnoses (e.g., mental illness). Approximately 4,400 individuals — 30% of all people currently incarcerated in Oregon — are suspected of having a TBI.\textsuperscript{21,22}
The number of homeless people in Oregon has increased by 6% from 13,176 in 2015 to 13,953 in 2017.\textsuperscript{23}

The numbers tell only part of the story. Individuals with brain injury often experience a complex blend of physical, sensory, cognitive, behavioral, and psychological challenges that defies easy categorization and makes it difficult or impossible for them access to coordinated, culturally sensitive services or staff trained to serve their unique needs on an ongoing basis. In children, the challenges can be even more complex because the effects of brain injury often emerge over time as the expectations for independence at school and home increase.

\begin{center}
\begin{tabular}{|l|}
\hline
\textbf{Mother of a child with a TBI:} Our 9-year-old son survived being hit by a car. But [now he] is a new person. We are grieving for the child we lost while trying to learn to love this new child. \\
\hline
\textbf{Mother of a teenager with a TBI:} Finding appropriate supports following my child’s hospitalization was extremely difficult. That was a very different challenge (than the TBI itself). I was lost and lonely never having had the experience of living with someone with a TBI. \\
\hline
\textbf{Mother of adult son with TBI:} After his brain injury, our son was so heavily medicated, resulting in such severe behavioral issues, that he was the only patient in the psych unit at the hospital for nearly ten months, costing OHP over $370,000 a month, until the state finally agreed on a placement. \\
\hline
\textbf{Adult survivor of TBI:} After a brain injury, you have an identity trauma. We slip through the cracks. Many in the medical community don’t know about brain injury. What resources are available? I have no idea….that’s a marketing and accessibility failure on the government’s part. Ideally, we’d have a case manager assigned to us. \\
\hline
\end{tabular}
\end{center}
Service provider: We need beds. I get case managers crying to me. We need a place to graduate folks. We need people who are trained in the TBI population. We need to gear ourselves to assessments [appropriate] to what a TBI looks like.

Family member: It seems like we always have to FIGHT for anything we need.

Adult survivor of TBI and her son (and caregiver): Quality of life for people with TBI is horrible. We all need to work on this. We need halfway houses. We need to put people to work. Everybody has a skill. Hope is what we need.

Those comments illustrate the complexity of life with a brain injury and the gaps in federal, state, and private sector services. Those gaps can lead to serious consequences for the health and economic well-being of individuals with brain injury and their families. Resource allocation challenges amplify this situation. For those hospitalized following a brain injury, the number of healthcare dollars spent to achieve medical stability during the acute stage of hospitalization is rarely matched during the post-acute/chronic stage, when rehabilitation services and supports are critically important to achieving maximum quality of life.

To further understand and recommend policy solutions to address those gaps, Governor John Kitzhaber signed an Executive Order in 2013 to convene the Governor’s Task Force (GTF) on TBI with the purpose of gathering information to inform policy recommendations within and across state agencies and private sector entities (see Appendix A, pg. 43).

The 14-member GTF was composed of representatives from various stakeholder groups, including individuals with brain injury and their family members, medical professionals, advocacy groups, Disability Rights Oregon, and state agency representatives from the departments of Corrections (DOC), Education (ODE), Human Services (DHS), Veterans Affairs (ODVA), and the Oregon Health
Authority (OHA). Individuals with specific expertise were also invited to contribute background information and policy recommendations (see Appendix B, pg. 49).

The purpose of this report is to summarize the GTF’s findings and make specific policy recommendations that address (a) prevention and awareness; (b) coordination of services; and (c) education, employment, and housing, as well as other domains that emerged as part of the evaluation process (see Section III below, pg. 7).

II. OVERVIEW OF THE PROCESS

A. PARTICIPANTS

Stakeholder groups included: (a) individuals with different types of brain injury, but predominantly TBI; (b) their family members; (c) state agency representatives; (d) medical professionals; (e) service providers; (f) advocacy groups; and (g) legal professionals.

Each member of the GTF represented the perspectives of hundreds of individuals with brain injury and their families and service providers. Additionally, more than 100 stakeholders with brain injury, family members, and professionals gave input directly to the GTF. Direct input was collected via oral testimony, focus groups, one-on-one interviews, and written comments across 10 separate events from January 2014 to January 2016. Several participants were caregivers representing a family member with a brain injury who was unable to attend the proceedings.

Taken together, all age ranges were represented. Individuals from Latino, Russian, and Native American backgrounds were also represented, as were veterans, those who are homeless, and those living in rural communities.
B. SUB-COMMITTEE PROCESS/ANALYSIS

The Experiential and Policy sub-committees of the GTF were formed to organize and evaluate themes that emerged from the stakeholder groups.

The **Experiential Sub-Committee** focused on the review and analysis of input and perspectives from stakeholders who have direct experience with brain injury (i.e., individuals with brain injury, their family members/caregivers, and professionals who serve them).

The **Policy Sub-Committee** focused on state agency policies, administrative rules, and statutes on behalf of those stakeholder groups. Selected DHS staff members facilitated this process by conducting in-depth interviews with non-GTF member staff across selected state agencies (e.g., DHS, ODE, OHA, DOC).

Each committee conducted a gaps analysis process to organize and analyze stakeholder input about the presence or absence (gaps) of essential services and resources.

III. STRENGTHS & GAPS

Guidelines for selecting themes to include in this report include the *frequency* with which a topic or group of related topics was mentioned and the *long-term implications* for the safety, health, and well-being of individuals with brain injury and their families. Case examples and quotations are used to illustrate each of the strengths and gaps drawn from the stakeholder input.
A. STRENGTHS

SUMMARY OF STRENGTHS

Areas of strength identified by the Governor’s Task Force:

1. Support and advocacy
2. Legislation
3. Federal and state agency services
4. State and private sector services
5. TBI prevention programs

1. Support and advocacy. Stakeholders reported that brain injury advocacy and support groups and the Centers for Independent Living are critically important resources for getting connected with peers, information, and activities. (Note: Several participants indicated that it took longer than it should have for them to get plugged into these groups and that there aren’t nearly enough support groups statewide, particularly in rural communities, to meet the need.) Church groups were also cited as an important source of support. Disability Rights Oregon (DRO) provides legal advocacy for individuals with TBI through the federally funded Protection and Advocacy for Traumatic Brain Injury (PATBI) program. See Table 1 for a summary of services and programs serving individuals with TBI and their families in Oregon.

Survivor: My “real” recovery started with my women’s brain injury support group and continues today, now that I’ve been introduced to my new community, that of a brain injury survivor.

Spouse: I found help through the state brain injury association and support groups and have gained a lot of knowledge.
Survivors & Parents: Peer mentor groups are extremely beneficial in helping others in the same situation.

Survivor: I finally got SSD [Social Security Disability] after years of trying thanks to the ILR [Independent Living Resources].

2. Legislation. Oregon has been a leader in passing legislation aimed at raising awareness about and preventing TBI through:

- establishing March as Brain Injury Awareness Month;
- mandating bicycle helmets for anyone under the age of 16; and
- mandating helmets for anyone riding a motorcycle or moped.

In 2009, Oregon passed legislation requiring that health benefit plans provide coverage of medically necessary therapy and services for the treatment of TBI. Increased public awareness of sports concussions has been extremely helpful in raising awareness about brain injury in our state.

- In 2009 Oregon enacted Max’s Law, named after high school quarterback Max Conradt. The landmark legislation requires mandatory concussion education and concussion response protocols for all Oregon high school athletic programs.
- Max’s Law covered only high school athletes, but Jenna’s Law, enacted in 2014, covers all other athletes under the age of 18 who participate in organized sports in Oregon. The Oregon Concussion Awareness and Management Program (OCAMP) is a consortium of educational, athletic,
medical, legal, and rehabilitation experts in sports concussion who are charged with education and disseminating resources about these two laws.

Note: See Appendix C, pg. 51, for more information about these laws.

3. Federal and state agency services. Stakeholders described specific examples of helpful state agency services, including care worker and case manager support, vocational re-training, and ODVA medical services. The Oregon Traumatic Brain Injury Educational Consulting Team — funded by ODE — provides training to educators serving students age 0–21 with TBI. Also, the Affordable Care Act includes a mandate for the provision of “habilitative” services in health policies.²

<table>
<thead>
<tr>
<th>Parent: My son now has a care worker through DHS from the Home Healthcare registry. His case manager is helpful.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parent: I was so used to being called to school to listen to all the problems my daughter has. This meeting [with the Oregon TBI team consultant] really gave my daughter and me an opportunity to think creatively and focus on her strengths. It’s only been three weeks since that meeting, and we’ve already accomplished all the initial goals we came up with!</td>
</tr>
<tr>
<td>Parent: My son is now part of a Latino support group and has a great case manager.</td>
</tr>
<tr>
<td>Parent: My son’s current Vocational Rehabilitation counselor is very helpful.</td>
</tr>
<tr>
<td>Survivor: The VA is great. I’ve gotten all the services I need. The smartest move I ever made was signing up for the Marine Corps.</td>
</tr>
</tbody>
</table>

4. State and private sector services. Only a few programs statewide offer the integrated, case management–based services frequently cited as a critical gap in service-delivery to individuals with brain injury. For example, Central City Concern serves the homeless community in Portland, OR, providing housing, case
management, healthcare, mental health, and addiction services using an integrated team approach. Selected university-based programs, private sector rehabilitation, and supported living programs offer an integrated team approach to concussion/TBI management. Campus disability service programs provide college students who have TBI support for academic accommodations and services.

<table>
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<tr>
<th>Central City staff &amp; two survivors of TBI who are homeless and have mental health and addiction histories: These men relied on the case managers for help with arranging housing, treatment, rehabilitation, and healthcare services. Both individuals were engaged with staff, dealing with their many issues. Although both men are coping on a limited basis, neither is engaged in TBI rehabilitation services.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parent: The university-based TBI program was very helpful for being able to identify, label, and understand symptoms.</td>
</tr>
<tr>
<td>Parent: She was able to get to disability services at a state university and, in time, she spoke at a disabilities class.</td>
</tr>
</tbody>
</table>

5. **TBI prevention programs.** The prevention of TBI is a broad topic that can be framed as preventing (a) TBI from occurring in the first place, (b) repeated TBIs following an initial injury, and (c) complications related to an undiagnosed or misdiagnosed TBI and consequent lack of early intervention and ongoing support. 85% of TBI hospitalizations in Oregon are attributable to falls, motor vehicles, and persons struck by or against an object (such as in sports).¹⁶

Statewide prevention programs include:

- Oregon Department of Transportation’s Transportation Safety Division;
- Oregon Health Sciences University’s Think First Program;
- Legacy Emanuel’s Trauma Nurses Talk Tough; and
- Oregon Safe Kids.
Dozens of other prevention programs have worked for more than 25 years to prevent motor vehicle–related TBIs by increasing seat belt use rates and the use of helmets when cycling. In addition, programs to reduce falls by senior adults have been adopted by many of Oregon’s health systems; a media campaign to prevent toddlers from falling from open windows has been in place for the past five years with some public awareness success; and several hospitals are implementing a firearm restriction program that targets youth who are at high risk for suicide.

Previously described legislative mandates targeting sports concussion training for coaches and families are specifically designed to reduce the risk of or prevent second impact syndrome. Specific campaigns, such as the special education “Child Find,” would be a helpful approach to finding students with TBI who might need services in their schools.

TBI often impairs the cognitive skills needed to navigate a complex healthcare system.

### TABLE 1. SERVICES & PROGRAMS IN OREGON THAT SERVE INDIVIDUALS WITH TBI AND THEIR FAMILIES

<table>
<thead>
<tr>
<th>Medical, Rehabilitation, Supported Living</th>
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<tbody>
<tr>
<td>Trauma Hospitals (N=44)</td>
</tr>
<tr>
<td>Inpatient Rehab Programs (N=10)</td>
</tr>
<tr>
<td>Outpatient Rehab Programs Specializing in TBI (N=1)</td>
</tr>
<tr>
<td>Supported Living/Group Homes for Adults with TBI (N=6)</td>
</tr>
<tr>
<td>Coordinated Care Organizations (Medicaid services) (N=15)</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Advocacy, Support, Training</th>
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<tbody>
<tr>
<td>Oregon Brain Institute</td>
</tr>
<tr>
<td>Centers for Independent Living (CILs) (N=7)</td>
</tr>
<tr>
<td>Disability Rights Oregon</td>
</tr>
<tr>
<td>Brain Injury Alliance of Oregon</td>
</tr>
<tr>
<td>TBI Support Groups (N=15)</td>
</tr>
<tr>
<td>Oregon TBI Team (Education)</td>
</tr>
</tbody>
</table>
### Prevention
- Public Health Division (OHA)
- Oregon Health Sciences University “Think First”
- Oregon Safe Kids
- Max’s & Jenna’s Laws (concussion response legislation)

### State Agencies
- Aging and Disability Resources Connection (ADRC) of Oregon
- Area Agencies on Aging (N=17)
- Department of Corrections
- Oregon Department of Education
- Department of Human Services (includes Vocational Rehabilitation)
- Oregon Department of Veterans Affairs
- Oregon Health Authority/Oregon Health Plan

### Discussion
Those existing strengths serve as starting points for policy recommendations moving forward. However, those strengths also point to myriad gaps, particularly the extremely difficult process of learning about, let alone navigating, the complicated private–public system of services and supports. The cognitive skills required to navigate such a system — memory, organization, planning, initiation, and follow through — are often impaired following a brain injury, making it extremely difficult for survivors to independently navigate the system, apply for, and access the available resources. Furthermore, family members caring for an individual with a brain injury are often overwhelmed and exhausted, leaving little time or energy for them to navigate the system on their own. “Falling through the cracks” was expressed in many ways across all stakeholder groups.
B. GAPS

SUMMARY OF GAPS

1. Lack of culturally sensitive services and resources
2. Lack of adequate education and training about TBI, including the lack of a standardized screening protocol
3. Complex, siloed service networks making it difficult to access services
4. Family members serving as unpaid caregivers
5. Financial hardships and difficulty accessing federal and state benefits
6. Difficulty with private insurance and accessing appropriate treatment options
7. Lack of affordable, appropriate housing
8. Challenges with co-occurring mental health disorders and addictions
9. Lack of adequate vocational training and employment opportunities
10. Lack of TBI identification and appropriate supports in the schools
11. Challenges identifying and managing TBI in the corrections system

1. **Lack of culturally sensitive services and resources.** Stakeholders underscored the significant lack of resources, services, and trained professionals/paraprofessionals attuned to the needs of individuals with brain injury across the lifespan, particularly those representing culturally diverse groups and different ages (youth to elderly). Stakeholders from culturally diverse backgrounds experience even greater challenges accessing services than the general population because of a lack of TBI educational materials in their own language and bilingually trained medical and allied health service providers. Undocumented individuals with brain injury are at a particular disadvantage in
accessing services. TBI among seniors can be ignored or missed entirely when medical professionals assume some other cause (e.g., dementia) for changes in behavior.

Lack of access to services is particularly glaring in rural and frontier communities. Between 2003 and 2012, approximately 10,000 persons living in rural Oregon counties sustained TBIs. People with TBI and their families who live in rural communities are often isolated and removed from service networks. The Centers for Disease Control (CDC) indicate that primary care physicians in rural areas are likely to be the only source of care, and they are unlikely to have received advanced training in TBI management. Moreover, specialized TBI rehabilitation programs are unlikely to be available in rural areas. People from rural areas are at an increased risk of developing secondary medical conditions because they cannot access medical services and other resources. A major unmet need is a lack of support for caregivers.

**Survivor:** There are not enough brain injury support organizations statewide to enable survivors, family, and friends to obtain information and resources training and socialize/decrease their isolation. Most brain injury support groups are non-profits relying on very limited budgets.

**Parent:** As a Latino family, it was difficult to ask for help and find culturally appropriate education and services.

**Sister of Undocumented Survivor:** We live “in the shadows” with little to no medical insurance, and we do not trust the federal government.

**Survivor:** I’m now getting older and the world is getting faster paced. I have no caregivers or managers of my affairs. I do it all on my own. I can’t afford technology or follow it.
2. Lack of education and training about brain injury, including the lack of a standardized screening protocol. Several stakeholders reported that they did not receive an accurate, timely diagnosis of TBI and that TBI is often masked in the presence of other life threatening conditions or physical impairments (e.g., respiratory distress, broken bones). For example, a TBI might go undetected in a child who is in a car crash and has a broken leg and internal injuries. Several stakeholders reported that they experienced dismissive attitudes from some, not all, medical and rehabilitation providers. All of those concerns can be in part attributed to a lack of awareness and training about TBI among medical and allied health professionals, educators, service providers, and state agency staff. Furthermore, there is no standardized TBI screening protocol used across public and private entities to begin to address this concern. An accurate diagnosis of TBI is the first critically important step to receiving benefits.\(^\text{D}\) Although it was acknowledged that public awareness about TBI has increase during the past several years, stakeholders reported that a huge void in public awareness about TBI remains. They often referred to TBI as the “invisible injury.” The lack of a TBI Clinical Registry that accurately documents and tracks the number of individuals with TBI adds to this concern.

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**Not all brain injuries show up on a CT scan or MRI.**
Updated May 2018

Survivor: Not all brain injuries show up on a CT scan or MRI. Not all brain injuries manifest until later on. That’s when I was told I was lying about my brain injury.

Survivor: The proper diagnosis of TBI is an issue. My TBI was not properly diagnosed. I was over-medicated on psychiatric meds and pain killers.

Survivor: I was told by a physician that he didn’t know what to do to help me. Much later I was told I had a TBI, even though I had previous neuropsychological testing. I was treated very poorly. Feels very blaming, that it’s our fault.

Family member: Hospital didn’t provide adequate information. Concussion was diagnosed, then he was discharged after 4 hours.

Advocate: How do people work with individuals with TBI who have challenging behaviors without support and training? How do doctors and hospital staff recognize a TBI?

3. Complex, siloed service networks making it difficult to access services.

Once a brain injury is diagnosed, lack of timely follow-up information and a clear plan for accessing services and supports was frequently reported. Also, lack of ongoing case management to navigate these services was of great concern, particularly after hospitalization and across the lifespan and severity range of brain injury. Several individuals with brain injury and their families reported delays in receiving much-needed services post-hospitalization or receiving no services at all. Only a few families were told that state monies are available to pay for care providers.
Parent: Following my son’s hospitalization, there was no one I could turn to on a regular basis for guidance on where to find help. I had to quit my job to care for him and figure everything out on my own. Community support groups were a life-saver, but it took months before anyone told me about these resources.

Parent: I didn’t know that we were supposed to think about a neuropsychological evaluation for my daughter. I didn’t know vocational rehabilitation existed. Getting the information notebook right as we were leaving the hospital was overwhelming, and I didn’t look at it for several months. When I was ready, there was no one to talk to that could relate this information to me in a meaningful way.

Adult survivor of TBI: Many in the medical community don’t know about brain injury. What resources are available? I have no idea... that’s a marketing and accessibility failure on the government’s part. Ideally, we’d have a case manager assigned to us.

4. Family members serving as unpaid caregivers. A clear pattern emerged showing the extent to which family members, when available and willing to help, served as both caregivers and untrained, unpaid resource navigators, often at great cost to themselves and other family members. Several family members reported having to quit their jobs to stay home and care for their loved one with brain injury and also reported feeling depressed and isolated themselves.

Parent: Our family is the main support for our son. However, as his mother, I don’t have any support system of my own. My grown children help at times. We had more outlets/sources of support while living in Kansas; they have a waiver program… but here in Oregon, we’re now at a loss.
Sister: I quit my job and now fill three roles for my brother—caregiver, navigator, and advocate with different people. It's been overwhelming. Everyone disappears from your life. I've experienced depression.

Spouse: Nobody told me what to expect. After the injury, there was this impulsive/compulsive person, one nightmare after another. There was no relief for me.

5. Financial hardships and difficulty accessing federal and state benefits.

Stakeholders described an array of challenges in this domain, including:

- the overwhelming debt often associated with brain injury due to medical expenses, lost income, etc.;
- barriers to learning about, applying for, and obtaining benefits such as workman’s compensation, Social Security Disability (SSD), and Supplemental Security Income (SSI); and
- accessing specific types of benefits such as food stamps and transportation support.

Even with medical documentation of their disability, stakeholders reported being routinely denied SSD benefits. Many gave up trying because of the difficult application process. Others described qualifying for SSD only to have their benefits taken away because they made just over the allowable income.

State-based services are available through the Department of Human Services (DHS). People who sustained a TBI before the age of 22 might qualify for services through the DHS Office of Developmental Disabilities. Those who sustained their injury at age 22 or older might qualify through the DHS Office of Aging and People with Disabilities. Stakeholders can be confused about which system they need to
access. Also, only 3 out of 10 Oregon veterans access their earned benefits, including broad healthcare support.28

Spouse: I had to put things on credit cards. Prior to my husband’s brain injury, we had excellent credit, but then we lost our truck, motor home, and later home due to illegal foreclosure (bank-related). I don't get any financial support from the state because I'm married. We would have to divorce.

Survivor: Sometimes I do not take my meds because I cannot afford them. My food stamps were cut from $200 per month to $15.

Survivor-Advocate: Most do not even think of brain injury as being eligible for “disability” services and especially that I/we might be eligible for some caretaker training and funds.

Professional-Rural Communities: Workers in the logging and construction industries often sustain concussions, but they are very hesitant to report these to their superiors. They are fearful of getting fired because the employer might fear an expensive workman’s comp claim.

Parent: Our son is unable to get back on SSI because he makes a little too much as a clerk at a grocery store, but it is not enough to live on. He does get insurance through his work, but the deductible is quite high. Now, we’re trying to go through the developmental disability route and waiting for a neuropsych test.

6. Difficulty with private insurance and accessing appropriate treatment options. Stakeholders described an array of challenges working with private insurance companies and accessing ongoing, comprehensive services, particularly following hospitalization. Family members, already worried and anxious, are compelled to spend additional time and energy appealing insurance
company decisions that deny or severely limit healthcare and rehabilitation services. In addition, the need for greater breadth and depth of services in both urban and rural areas was underscored, particularly for individuals who are medically fragile and those with mild–moderate TBIs, who do not necessarily qualify for the same services as those with more severe injuries.

Family member: In many cases, the insurance companies are telling the medical folks HOW MANY and WHAT KIND of services the patient needs, not the other way around.

Family member: Has both TBI and is medically fragile. We know of no place like this, so he has to stay at home.

Professional-Advocate: Rehabilitation benefits are often orientated to orthopedic impairments, not neurological or specialty services, such as vision or hearing. Lack of a TBI waiver is problematic.

Parent: I’m old and live in a small house; I wish my daughter had some place else to go during the day…some club or something.

Survivor: Can’t go anywhere because of very limited transportation (not affordable).

7. Lack of affordable, appropriate housing. Housing emerged as a pivotal issue. Several stakeholders reported losing their homes because they could no longer afford their rents/mortgages because of job loss, divorce, or catastrophic medical bills. Some moved to a much less expensive and less desirable dwelling, and others moved in with family members to cut down on There are not nearly enough adult foster homes for individuals with severe TBI, particularly those with challenging behaviors.
expenses. There are not nearly enough adult foster homes (AFH) and other care settings for individuals with severe TBI, particularly those with challenging behaviors that preclude their families from taking care of them. Furthermore, some AFH’s are changing over to private pay because the state does not pay enough to cover the costs of care. As a result, individuals with TBI become more likely to be admitted to state or private hospital mental health wards. Those who are homeless experience even greater hardship, with few programs available to meet their complex needs.

**Survivor:** I lost my house because I couldn't manage the stairs. I had to do a short sale, and I still owe the government. This is typical, that families like ours experience a downward spiral.

**Family member:** Rentals/housing (even section 8) is getting too expensive to live in—unless you want to live in a dump.

**Professional:** Without the security of safe, stable housing, people with TBI are at extreme risk (for homelessness) and have profound difficulties in managing their conditions and their lives. Social Security Disability income is inadequate to afford even the cheapest single room occupancy housing.

**Survivor:** Brain injury folks who cannot live independently have no place to go except foster care, where mostly older people live or those with severe disabilities. This does not lend itself to a positive living environment.

**Professional:** People with TBI who reside in the state hospital, nursing homes, Oregon Youth Authority facilities, or state-operated secure facilities for I/DD [Intellectual/Developmental Disabilities] experience high barriers to placement in more community-integrated settings.

8. **Challenges with co-occurring mental health disorders and addictions.** Co-occurring mental health disorders and drug/alcohol addictions significantly complicate life with a TBI. These disorders can mask a pre-existing TBI or lead to
a TBI, thereby compounding problems with accessing services and increasing the risk of homelessness and trouble with law enforcement. Services are often provided in private and state institutions, such as emergency rooms, homeless shelters, and correctional facilities, exacting an extremely high financial and personal toll when compared with the possibility of receiving well-coordinated, ongoing services initiated immediately following a TBI. Stakeholders described an array of challenges in this domain, including accurate diagnosis of TBI; accessing mental health support, housing services, proper medication, and TBI-related rehabilitation services; and the risk of recurring TBIs.

<table>
<thead>
<tr>
<th>Spouse: He tried to go back to work but became suicidal. He went into a psych ward. Because of his depression, his health started deteriorating. It was hard to find mental health support.</th>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Professional: Both J. and S. were middle-aged males who experienced years of homelessness, frequent incarcerations, were disaffiliated from family and friends, and were not working. They had been chronically unemployed. Both had experienced multiple head traumas and were multi-diagnosed with addiction histories. Neither individual is actively engaged in TBI rehabilitation services.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Professional: Psych medications that may be appropriate for mental illness treatment can confuse and overpower symptoms of TBI.</th>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Professional: For someone with TBI, addictions, and mental illness, living on the streets and shelters is truly frightening and puts the person at risk for further head trauma and other destabilizing events. Living on the streets is dangerous for anybody, but for the person with behavioral control issues, it is extremely dangerous and should be considered life threatening.</th>
</tr>
</thead>
</table>
9. Lack of adequate vocational training and employment opportunities. Stakeholders, while appreciative of vocational rehabilitation services, highlighted challenges within the system having to do with a lack of adequate staff training for working with individuals with TBI, jobs not appropriately matched to an individual’s abilities and interests, and the need for ongoing vocational rehab support beyond what is currently available.

**Family member:** Most Voc Rehab employees do not know how to work with individuals with brain injury, their needs and potential capabilities. You don’t need to stick someone with just low-level work. They get tired of doing meaningless work.

**Survivor-Advocate:** Voc Rehab takes a “one size fits all” approach with disabilities and doesn’t always customize its services to meet the needs of individuals with TBI.

**Professional:** TBI survivors need more long-term supports in vocational rehabilitation, similar to the developmental disability community and mental health.

**Parent:** Voc Rehab recommended a trade for our son, so we helped him start a small business, but then he got kicked off SSI and had to pay the money back.

**Parent (same as above):** Later, he got a job at grocery store as a courtesy clerk — with his sister’s help; however, store staff step into to compensate for certain tasks. Currently, he can’t work the bottle room. He has difficulty with store “closing” tasks, and staff don’t have time to do both their and his tasks. Currently, the new manager doesn’t understand about brain injury and is cutting his hours. The current VR counselor ordered a neuropsych test [and] has helped a great deal with focusing on goals that are doable.
10. Lack of TBI identification and appropriate supports in the schools.

Schools are often not informed that a student has sustained a TBI. But schools have an obligation to identify students with disabilities and create an Individualized Education Plan (IEP) for those who are eligible for special education services. However, once a student has been identified, schools are often ill-equipped to support the student. Students sometimes receive services under a disability category other than TBI (e.g., learning disabled, ADHD), which affects the individualization of services to meet their unique needs. Furthermore, pre-existing educational challenges can make it difficult to access appropriate school services and eligibilities. If a student received services for other challenges, such as a learning disability or ADHD, prior to their TBI, schools often do not re-evaluate for TBI and continue providing services under the student’s prior eligibility category. This is problematic for the student because it limits the services they can access after they exit the school system and during the transition phase. Finally, students with less severe TBIs, who might not need an IEP, may not be identified as needing 504 plan accommodations or modifications within their school program, and thus they are not effectively supported (see Appendix C, pg. 51 regarding Return to Learn).

<table>
<thead>
<tr>
<th>Parent:</th>
<th>His initial attempt to return to school…very unstable; he wasn't ready. Grades plummeted. He currently goes to a private school in Washington.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parent:</td>
<td>My child tried going back to school following his injury…didn't go well, but later he completed his GED.</td>
</tr>
<tr>
<td>Survivor:</td>
<td>I didn’t know what else to do and so re-entered school my senior year of high school, following my brain injury. After my first day in classes, I...</td>
</tr>
</tbody>
</table>
broke down in tears. One of my teachers brought in a school counselor and my mom. Other than that, there was no support.

Professional: Still need a medical statement from a physician, which is sometimes difficult to get if the (student’s) TBI occurred a long time ago. In this case, they are often labeled differently (e.g., learning disabled; other health impaired), but they still get services.

11. Challenges identifying and managing TBI in the corrections system.

Oregon Department of Correction’s management for TBIs includes:

- a highly controlled and predictable environment;
- training of both custody and non-custody staff about the prevalence of TBI, recognizing general types of impairment, and how to interact with inmates who are upset, slowed, or confused from a variety of causes;
- medications, when warranted, to help improve control of mood and affect; and
- providing specialized training in the management of acute TBI for medical providers.

Challenges within this system include the lack of a standardized approach to screening for TBI. Inmates often have a difficult time self-reporting if and when they might have sustained one or more TBIs because of past histories that can include multiple fights, drug use, or abuse. To determine whether a TBI pre-dated, and therefore might be causally linked to the crime for which an individual is incarcerated, is difficult at best. There are no neuropsychology services available within the corrections system to assist with answering those questions. Furthermore, there are no specialized rehabilitation services for individuals with TBI within corrections facilities, nor are there comprehensive, individualized transition planning services specifically geared toward those with TBI. Difficulties with attention, memory, impulse control, initiation, and follow through, which are
often associated with TBI, can make it difficult to successfully adhere to probation or parole plans.

Chief Psychiatrist of Corrections:

Patients in any correctional system are unlikely to have a “pure,” discrete TBI history. The few examples of severe TBI we have are usually readily identified. TBIs usually serve to accentuate and worsen well-documented preexisting problems, such as impulse control problems and anger, rather than create new ones, but we are usually unable to document any clear post-TBI change.

In addition to the various ways in which risky lifestyles increase the chances of accumulating repeat concussions, we also question how many of the folks we see have an undocumented history of TBI secondary to early childhood physical abuse or injury (that they don’t recall), which impairs subsequent brain development and negatively affects learning, affect, impulse control, and behavior.

Many inmates report growing up in chaotic, violence-prone households. By the time they get to jail or prison, they have often accumulated a variety of diagnoses (conduct disorder, oppositional defiant disorder, ADHD, learning disabilities, various mood disorders, etc.).

We can infer that some of the difficulties the inmate faces are ultimately secondary to the cumulative developmental effects of early TBIs, but we cannot prove it, certainly not to the extent of having them qualify for specialized TBI services in the community.
IV. SUMMARY

The focus of the GTF on TBI was to examine state policies and practices regarding TBI and its prevention, along with the delivery of services to those living with brain injury and their families. Specifically, the GTF looked at policies, procedures, administrative rules, and statutes that guide and inform the delivery of services across selected state agencies (e.g., ODE, ODVA, DHS, DOC, OHA). The goal was to find the strengths in services and policies, gaps in services, and any duplication of effort. After analyzing the existing practices, the GTF reached several conclusions that resulted in eight recommendations that will require cross-agency collaboration, both across state agencies and between state agencies and private sector entities.

The last of these recommendations, but potentially the most important, is establishing the position of the Governor’s Brain Injury (BI) Coordinator and Advocate. This position is deemed necessary by the GTF to ensure that improvements identified for various services actually happen. The current systems of care being administered by the identified state agencies are uneven and siloed. Some services are readily available to some people, and other services are virtually nonexistent. Some services cross over different agencies and have different qualifying standards. Knowledge of brain injury and acceptance of treatment protocols varies from agency to agency.

Currently, no coordinated system pulls together all the elements of brain injury diagnosis, acute care treatment, rehabilitation, coordination of insurance benefits, vocational support, and peer support. Individuals with brain injury, their family members, and caregivers are forced to understand and navigate an extremely complex system. Ironically, the cognitive impairments frequently associated with brain injury, such as memory loss and difficulty with organization and follow-through, compound the problem. These recommendations have broad applicability.
to individuals who live with all types of brain injury (e.g., stroke, tumor, anoxia).

The BI Coordinator-Advocate will be able to address these concerns, working with state agencies, individuals with brain injury, their family members, and care and advocacy groups throughout the state. Outreach to the private sector care, advocacy groups, and organizations is an important aspect of the BI Coordinator-Advocate’s responsibilities because it is vital that the needs of all individuals with brain injury and their families and friends be recognized and addressed by any recommended state action. As a result, it is important that the BI Coordinator-Advocate knows and can work with the various survivor groups, including private veterans’ associations, the Brain Injury Alliance of Oregon, Brain Injury Connections NW, private care facilities, and the other brain injury advocacy, support, and care groups throughout the state.

V. STATEWIDE RECOMMENDATIONS

(Note: See Appendix D, pg. 54 for agency-specific recommendations.)

RECOMMENDATIONS AT A GLANCE

1. Increase educational outreach
2. Establish a TBI Clinical Registry
3. Establish a statewide map of services and supports
4. Establish a statewide program of care coordinators
5. Develop an equitable system of care and services
6. Develop a communication system to improve coordination across agencies
7. Establish sustainable, equitable funding mechanisms
8. Establish the Governor’s Brain Injury Coordinator and Advocate in the Office of the Governor
Recommendation 1: Increase **educational outreach** to:

- train professionals, administrators, and service providers across multiple fields and organizations, including medicine, rehabilitation, mental health, social work, education, and state agencies;
- promote a standardized approach to (a) screening for TBI in the medical and allied health communities and (b) identifying the need for services among individuals with brain injury across state agencies and private sector entities; and
- support community partners, emphasizing brain injury resource education and coordination of services.

Recommendation 2: Establish a **TBI Clinical Registry** based on the current TBI Data Registry that would:

- provide a history of traumatic events;
- be available for clinical purposes, including TBI screening/assessment, eligibility for service benefits, treatment planning, and case management;
- be accessible, with patient consent, to designated medical, educational, and service providers; and
- establish a universally understood definition of TBI.

Recommendation 3: Establish a centralized, comprehensive, culturally sensitive, easy-to-navigate **statewide map of services and supports** (web-based and hard copy) framed around key stakeholder questions/needs and including a technical assistance program to support its use.
**Recommendation 4:** Establish a statewide program of care coordinators specifically trained to serve individuals with brain injury and their family members across cultures and age ranges, who will assist them in navigating resources, services, supports, and benefits and maintain regular contact.

**Recommendation 5:** Develop an equitable system of care and services that provides medical care, vocational training, affordable/appropriate housing options, and an array of long-term services and supports for those with severe injuries and behavior challenges and those with co-occurring mental health or addiction issues. This recommendation would meet the requirements of federal Home and Community Based Services standards and the ADA.

**Recommendation 6:** Develop and implement a communication system to improve coordination across agencies, including the medical community, social services, and schools. This coordination should support individuals transitioning between systems, especially children as they age out of the education and juvenile social service programs.

**Recommendation 7:** Establish sustainable, equitable funding mechanisms to support the implementation of recommendations 1–6. These could include:

- establishing a TBI-specific program (i.e., targeted Medicaid funds to support community-based living);
- ensuring family caregivers receive compensation to help replace income lost while they cared for a family member with a brain injury;
- ensuring the same level of financial support and service, regardless of age of injury or severity of injury; and
- addressing the issue of insurance bad faith regarding payment for necessary medical care and covered living expenses.
Program Note: Some stakeholders suggested that Oregon apply for and administer a TBI Waiver. TBI Waivers usually refer to a Medicaid funding authority (i.e., 1915(c)) that allows states to develop TBI specific services and supports. Oregon currently uses the 1915(k) Community First Choice funding authority. The 1915(k) allows Oregon the same flexibility as a 1915(c) provides. State agency representatives believe the state has the opportunity is to develop a more comprehensive service array that takes advantage of all of the services and flexibility allowed in the 1915(k). The 1915(k) also more federal revenues than a 1915(c), stretching state resources further. See Appendix D, Department of Human Services, pg. 55.

Recommendation 8: Establish a high-level staff position in the Office of the Governor named the Governor’s Brain Injury (BI) Coordinator and Advocate. This individual will (a) report to the governor and (b) be charged with implementing the recommendations of the GTF to ensure the State of Oregon improves its primary and secondary prevention of TBI and care for people living with brain injury. Funding for the position and support staff will be provided and shared by the Oregon Health Authority and the Oregon Departments of Veterans’ Affairs, Education, Human Services, and Corrections. The Coordinator will work with state agency staff and private sector community partners to develop and improve the delivery of preventive actions and improve the coordination of effective delivery of care. Where legislation or administrative rule changes are needed, the Coordinator will advocate for the necessary changes. The BI Coordinator-Advocate will also work closely with the community of people with brain injury. The position will be limited to a five-year tenure.

Figures 1 and 2 below illustrate a service delivery system that addresses the gaps and recommendations outlined in this report.
FIGURE 1. OVERVIEW OF OREGON'S PLAN TO IMPROVE SERVICES AND SUPPORTS FOR INDIVIDUALS WITH BRAIN INJURY AND THEIR FAMILIES

Governor's Brain Injury Coordinator and Advocate

The BI Coordinator will support ongoing efforts to raise public awareness of BI and oversee state agency and private sector implementation of the following recommendations:

| Increase educational outreach across private-public entities; promote standardized screening approaches | Establish a TBI Clinical Registry | Establish a "road map" of services and resources | Establish a statewide network of care coordinators | Develop an equitable system of treatment, care, and services | Develop a communication system to improve cross-agency coordination | Establish sustainable, equitable funding mechanisms to support recommendations |

Updated May 2018
Brain injury (BI) diagnosis is confirmed.

Care Coordinator is assigned to the individual with BI and family.

Care Coordinator regularly meets with the individual with BI, family members, and caregivers to address key issues including:

<table>
<thead>
<tr>
<th>Medical needs</th>
<th>Expected course of treatment</th>
<th>Rehabilitation options</th>
<th>Insurance</th>
<th>Immediate post-injury supports &amp; resources</th>
<th>Long-term supports &amp; resources</th>
<th>Housing</th>
<th>Co-existing issues that may pose additional challenges for the individual and/or family</th>
</tr>
</thead>
</table>

Long Term Outcomes:

| Increased quality of life for individual with BI | Reduced family/caregiver burden | Reduced financial costs to state & private sector entities |

Updated May 2018
CONCLUSION & ACKNOWLEDGEMENTS

This report was informed by numerous stakeholder stories exposing gaps in a system of care that unnecessarily adds to the burdens of life with a brain injury. Stakeholders also described many helpful resources and programs that, if brought together in a coordinated public–private system of care, could minimize the unnecessary challenges and provide proactive, ongoing access to coordinated systems and supports. This report serves as a reference for policy and legislative changes to achieve that end.

The GTF on TBI extends its untold thanks to the many stakeholders who offered their personal stories and experiences to help shape this report. Their invaluable contributions inform the work ahead in pursuit of our state’s vision of improved public–private services and supports to maximize community engagement and the quality of life for individuals with brain injury.
A 504 Plan is a plan of support developed to ensure that a child with a disability attending an elementary or secondary educational institution receives *accommodations* that provide access to the learning environment. A 504 plan is different from an Individualized Education Plan (IEP), which provides *specialized instruction and related services* (i.e., special education) to access the learning environment. The Individuals with Disabilities Education Act (IDEA) and Section 504 of the Rehabilitation Act of 1973 mandate IEP and 504 plans, respectively.

Because the disabling effects of a brain injury can emerge months after the initial injury, an individual might have become ineligible for health insurance coverage for “rehabilitative services” that help them recover functioning. Coverage for “habilitative services,” which help a person who needs to keep, learn, or improve skills and functioning for daily living, does not depend on proximity to the injury. Habilitative services include physical and occupational therapy and speech-language therapy.

Child Find is a component of the Individuals with Disabilities Education Act (IDEA) that requires states to have (a) policies and procedures to ensure that all children with disabilities are identified, located, and evaluated; and (b) a practical method for determining which children are currently receiving needed special education and related services, including those on 504 plans.

Medical facilities are allowed to destroy patient records, including chart notes and brain imaging studies, after several years, making it difficult for those seeking disability benefits to provide documentation of their TBI. To mitigate this problem, survivors of brain injury need to have their medical file in hard copy or electronic form that they can keep permanently.
Oregon’s Department of Human Services administers long-term services and supports through the 1915(k) Community First Choice.
References


REFERENCES — STATE AGENCIES & COMMUNITY PARTNERS

Brain Injury Alliance of Oregon
Brain Injury Connections Northwest
Central City Concern, Portland, OR
Oregon Dept. of Corrections
Oregon Dept. of Education
Oregon Dept. of Human Services
Oregon Dept. of Veteran's Affairs
Establishing the Task Force on Traumatic Brain Injury
EXECUTIVE ORDER NO 13-02

ESTABLISHING THE TASK FORCE ON TRAUMATIC BRAIN INJURY

Traumatic Brain Injury (TBI) represents a significant public health problem. Each year, almost 1.7 million people in the United States sustain brain injuries due to motor vehicle collisions, assaults, falls, firearm incidents, and sports activities. Of the total number of individuals injured each year, more than 124,000 will be left with permanent disability in social, behavioral, physical, and cognitive functioning. Currently, approximately 3.17 million people in the United States need help with daily living due to a TBI.

There are approximately 45,000 Oregonians with TBI and more than 3,000 individuals are added to this number every year. Over 1000 students in Oregon are hospitalized for brain injury each year. Approximately 16% of these children will be left with significant alterations in functioning (based on national averages) indicating a cumulative total of nearly 2000 students who should be identified for special education services. However, Oregon’s Special Education Child Count for 2010-11 identified only 284 students with TBI.

Traumatic brain injury has become the signature injury of the Afghanistan and Iraq wars. The incidence rate among combat-exposed military personnel is estimated at 15-20%. However, as in the civilian population, the true incidence of brain injury in the military is likely much higher due to significant under-reporting. To illustrate, congressional research reports indicate that there are over 700 veterans with brain injury living in Oregon. However, state agency personnel reports indicate over 1700 veterans, many of whom may have brain injury, are currently receiving services through Oregon’s Office of Seniors and People with Disabilities alone.

Oregonians with TBI are a growing population attempting to navigate private, state, and federal agencies to address their complex medical, rehabilitation, and vocational needs. Lack of coordinated, on-going services following injury is common and can result in persons with brain injury being served in higher cost private and state institutions such as emergency rooms, homeless shelters, and correctional facilities. Coordinated services early post-injury are thus critical to maximizing independence and reducing long-term costs to the state. Recent health care transformation efforts have created an unprecedented opportunity for coordinated services for this and other populations with complex needs.

Three areas of concern underscore the need for coordinated services for all persons with TBI:
EXECUTIVE ORDER NO 13-02
PAGE TWO

(a) **Disabilities and access to services:** The physical, cognitive, and psychological disabilities following brain injury often prevent access to services. For example, impairments in memory, organization, and problem solving—the very skills needed to navigate complex service delivery systems often preclude persons with TBI from independently accessing these services.

(b) **Co-occurring disorders:** Brain injury can occur with other disorders including attention deficit disorder, mental illness, or drug/alcohol dependence. For example, many veterans with TBI also have post-traumatic stress disorder (PTSD). Treating these over-lapping conditions requires highly integrated care.

(c) **Diverse needs:** Just as no two individuals are alike, no two brain injuries are alike. Hence, individuals with TBI do not all need the same type and intensity of services. For example, students with TBI need person-centered individualized education programs and transition plans to maximize success. Similarly, adults with brain injury benefit from individualized, coordinated care plans. What is common to all persons with brain injury and their families is the need for assistance navigating the complex service-delivery system.

In 2001, Executive Order (EO) 01-02 created a Task Force on Traumatic Brain Injury. The EO 01-02 report drafted in 2002 provided recommendations to state agencies and advocacy organizations to focus on legislation on behalf of persons with traumatic brain injury and their families.

Since 2002, the service-delivery landscape for persons with brain injury has changed dramatically. The return of Oregon soldiers with TBI and continued improvements in life-saving medical procedures for civilians and military personnel alike contribute to the need for sustained, coordinated services across public agencies and private sector groups. This executive order repeals EO 01-02 and focuses on policy formation across state agencies.

NOW THEREFORE, IT IS HEREBY DIRECTED AND ORDERED:

1. The Task Force on Traumatic Brain Injury ("Task Force") is established. The purpose of this Task Force is to formulate policies with state agencies focusing on improved service delivery for this population.
EXECUTIVE ORDER NO 13-02
PAGE THREE

2. To ensure diversity of input, Task Force membership will include representation from the following categories:

   a. Two brain injury survivors appointed by the Governor;
   b. Two relatives of brain injury survivors appointed by the Governor;
   c. Two medical professionals with experience in treating brain injury appointed by the Governor;
   d. One member of the public appointed by the Governor;
   e. One agency representative appointed by the director of the Brain Injury Alliance of Oregon;
   f. One agency representative appointed by the director of Disability Rights Oregon;
   g. One agency representative appointed by the director of the Oregon Department of Corrections;
   h. One agency representative appointed by the director of the Oregon Department of Veterans’ Affairs;
   i. One agency representative appointed by the director of the Oregon Health Authority;
   j. One agency representative appointed by the director of the Oregon Department of Human Services; and
   k. One agency representative appointed by the director of the Oregon Department of Education.

3. The Task Force membership term for all members is three years. The 14 Task Force members may enlist others with specific expertise to develop the proposed policies. The Task Force members shall select the chair. Task force members will not be reimbursed for mileage or per diem.

4. At least seven members must be present for a quorum. The Task Force shall meet at least quarterly for three years after the EO takes effect.

5. The Task Force will take the lead on formulating policies in partnership with state agencies and groups that directly serve Oregonians with TBI, addressing the domains of (a) coordination of services, (b) prevention and awareness, and (c) employment, education, and housing.

6. The Task Force will address coordination of services by:

   a. Developing joint policies with the state agencies that provide services to persons with TBI. These agencies include: Oregon
Department of Education; Oregon Department of Veterans’ Affairs; Oregon Health Authority; Oregon Department of Corrections; Oregon Youth Authority; Office of Vocational Rehabilitation Services; Office of Developmental Disability Services; and Office of Seniors and People with Disabilities.

b. Developing joint policies with healthcare delivery entities including coordinated care organizations for comprehensive, integrated services for people with TBI. Types of care considered will include medical, mental health, and cognitive rehabilitation services.

c. Developing joint policies with the Veterans’ Administration and other military organizations, including the Oregon National Guard, to improve services delivered to veterans and returning military whether covered by service-related medical benefits or not.

7. The Task Force will address prevention and awareness by:

a. Developing policy with the Oregon Health Authority to reduce the incidence of TBI through a program of identification (screening and registry), prevention, and public awareness.

b. Developing policy with Oregon Youth Authority and the Oregon Department of Education to implement wide-scale TBI screening programs to identify and recommend treatment for students with TBI.

8. The Task Force will address education, employment, and housing by:

a. Developing policy with the Oregon Department of Education to improve quality of Individual Education Plans and Transition Plans for students with TBI.

b. Developing policy with the Office of Vocational Rehabilitation Services to improve employment outcomes of individuals with TBI.

c. Developing policy with the Office of Seniors and People with Disabilities, the Office of Developmental Disability Services, the Oregon Health Authority and Oregon Housing and Community Services to improve housing opportunities for people with TBI.

9. The Task Force will also advise on Oregon’s Health Resources and Services Administration (HRSA) Traumatic Brain Injury Implementation grants, as needed.
EXECUTIVE ORDER NO 13-02
PAGE FIVE

10. The term Acquired Brain Injury (ABI) is the term used to describe damage resulting from traumatic causes (e.g., TBIs due to car crashes, falls, assaults) and non-traumatic causes (e.g., stroke, tumor, anoxia, meningitis). Persons with ABI due to non-traumatic causes benefit from similar services to those with TBI. The current Task Force will focus on TBI. However, persons with ABI would benefit from a similar policy development effort. Therefore, the Task Force will develop a strategy for future inclusion of ABI in state agency policy and/or legislation.

11. Administrative support for the Task Force will be shared by the Oregon Health Authority, Department of Human Services and the Oregon Department of Education or its designee.

12. This Executive Order hereby supersedes and replaces in total Executive Order 01-02.

13. This order shall expire January 29, 2016.

Done at Salem, Oregon, this 31 day of January, 2013.

John A. Kitzhaber, M.D.
GOVERNOR

ATTEST:

Kate Brown
SECRETARY OF STATE
APPENDIX B: GTF MEMBERS AND EXPERT CONSULTANTS

GTF Co-Chairs:

- Richard Harris – Public member; Former Director of Oregon’s Dept. of Addictions and Mental Health & Executive Director of Central City Concern
- Cameron Smith, Director – Oregon Dept. of Veterans Affairs

GTF Members:

- Bryan Andresen, MD – Physiatrist – Rehabilitation Medicine Associates, Eugene; Medical Director – Community Rehabilitation Services of Oregon & Oregon Rehabilitation Center, Sacred Heart Medical Center
- Curtis Brown – Survivor of traumatic brain injury
- James Chesnutt, MD – Sports Medicine, Oregon Health Sciences University; Co-Director OHSU TBI Initiative; OSAA Sports Medicine Advisory Committee
- Sarah Drinkwater, PhD – Assistant Superintendent, Office of Learning/Student Services-Oregon Dept. of Education
- Adrienne Greene – MPA, Injury & Violence Prevention Program Grants Manager, Oregon Public Health Division – Oregon Health Authority
- Cathy Hurowitz, MS ED – Parent of a child with traumatic brain injury; Educator
- Bob Joondeph, JD – Executive Director of Disability Rights Oregon
- Ginny Real – Spouse of a survivor with acquired brain injury
- Daryl Ruthven, MD – Chief of Psychiatry, Oregon Dept. of Corrections
- Sherry Stock, ED, MS, CBIST – Executive Director, Brain Injury Alliance of Oregon
- Jane-Ellen Weidanz – Aging and People with Disabilities, Oregon Dept. of Human Services
- Fern Wilgus – Survivor acquired brain injury; Veteran; Advocate
Expert consultants

- David Kracke, JD, Attorney – Nichols Law Group, Portland
- Ann Glang, PhD – Director, Center on Brain Injury Research and Training, University of Oregon
- Melissa McCart, PhD – Director, Oregon TBI Teams
- Carolyn Saraceno – Survivor of brain injury; Research Assistant, Center on Brain Injury Research and Training, University of Oregon

Report Production: Staff at the Center on Brain Injury Research and Training, University of Oregon, prepared this report in consultation with GTF members and consultants.

We would like to extend a special thanks to Karen Menne for her work coordinating the GTF on TBI.
APPENDIX C: OVERVIEW OF OREGON’S TBI-RELATED LEGISLATION & INITIATIVES

Max’s Law

In 2009, Oregon enacted what is now known as Max’s Law, named after high school quarterback Max Conradt. The landmark legislation requires mandatory concussion education and concussion response protocols for all Oregon high school athletic programs. Max’s Law requires all high school athletic coaches to obtain annual concussion education. This education is designed to ensure that when a high school athlete is suspected of sustaining a concussion, the coach will respond in a way that minimizes the health effects of that concussion, including removing the athlete from the game or practice and not allowing the athlete to return to play until s/he is cleared to do so by a qualified healthcare professional.

Jenna’s Law

Whereas Max’s Law covers only high school athletes, Jenna’s Law, an Oregon law since 2014, covers all other athletes under the age of eighteen in Oregon who participate in organized sports. Named after Jenna Sneva, a skier who suffered multiple concussions during her skiing career, Jenna’s Law requires all coaches, referees, players over the age of twelve, and at least one parent of each player to receive annual concussion education training. The same concussion protocols apply as in Max’s Law: removal from athletic activity, referral to a healthcare professional after a suspected concussion, and return to play only after receiving a healthcare professional’s authorization to do so. Jenna’s law has been transformative in its effect; it is estimated that more than one hundred and fifty thousand Oregonians are required to receive annual concussion education and training as a result of this landmark legislation.
More information on both Max’s and Jenna’s Laws can be found at http://cbirt.org/ocamp/.

Return to Learn

*Return to Learn* (RTL) is the process of returning to school after a brain injury. Brain injury can directly affect a student's ability to learn. Therefore, students can need varying levels of supports and academic accommodations during the recovery process. This is especially true in the early stages of recovery, but supports might be needed for several months as the student recovers. *Return to Learn* simply means addressing each individual student's needs as they come back to school after an injury and as they recover.

In Oregon, the Center on Brain Injury Research and Training (CBIRT) provides technical assistance to schools that want to develop and implement an effective RTL program. This work dovetails with that of the Oregon TBI Team because a small percentage of students who experience mild TBI/concussion will need ongoing supports. Those students who qualify for IEPs or section 504 plans are served by the Team, with ongoing oversight by the regional special education program.

**TBI Health Care Mandate**

In 2009, the legislature enacted SB 381, which required that a health benefit plan (as defined in ORS 743.730, now ORS 743B.005) shall provide coverage of medically necessary therapy and services for the treatment of traumatic brain injury. The law is now codified in ORS 743A.175. This law requires that any covered health benefit plan now provide coverage for treatments associated with TBI that are deemed medically necessary.
Bicycle Helmet Laws

One of the first laws to recognize the need for prevention of TBI in Oregon’s youth were the mandatory bike helmet laws passed in 1994. Those laws were updated and expanded in 2004 and again in 2015.

In 1994, the legislature mandated that if a person is under the age of 16 and riding a bike (or is a passenger on a bike) in a place intended to be used by motorized vehicles or that is open to the public, they must wear a helmet. In 2004, the law was expanded to include skateboards, scooters, and in-line skates (ORS 814.485). Oregon law also requires that, to meet the requirements of the mandatory helmet law, bicycle helmets must “conform, insofar as practicable, to national safety standards and specifications for such headgear.”

Mandatory Motorcycle Helmet Laws

In 1988, the Oregon legislature required anyone riding a motorcycle or moped (as a driver or a passenger) to wear an approved motorcycle helmet. Helmets must have a label on them saying that they meet U.S. Department of Transportation standards. Motorcycle crashes were recognized as a leading cause of TBI among motorcycle operators, and this law was deemed necessary to reduce the incidence of TBI among this group.
APPENDIX D: AGENCY-SPECIFIC RECOMMENDATIONS

Oregon Health Authority, Public Health Division:

- Increase efforts to educate the public about TBI and how to prevent them;
- Support health-systems-level policies that require TBI screening;
- Increase the dissemination and uptake of population-level TBI incidence data;
- Develop and implement strategies to increase recognition of TBI in clinical care; and
- Support the development and implementation of outcome measures (e.g., number of days before return-to-work following mild TBI).

Oregon Health Authority, Mental Health Programs:

- Increase identification of TBI as a co-occurring condition;
- Increase the number of skilled providers who can address co-occurring conditions; and
- Develop protocols for individuals transitioning from state hospitals to create successful discharges.

Oregon Health Authority, Medical Assistance Programs:

- Work with Coordinated Care Organizations, who have some level of discretion in services provided; and
- Increase coverage of post-acute rehabilitation services to incorporate individualized rehabilitation services without set caps or expectations of progress.
Oregon Department of Education:

- Address TBI deliverables and recommendations for support in regional program contracts;
- Develop and provide education for school districts, family members, and teachers;
- Convene a work group on developing policies and disseminating best practices;
- Improve communication and coordinated services to youth across the education, medical, and social service systems; and
- Develop a tracking system for school-aged youth to monitor TBI, particularly students on 504 plans.

Oregon Department of Corrections:

- Improve the strength of community-based partnerships & relationships;
- Improve recognition and tracking of TBI and associated sequelae;
- Develop recovery-focused treatment and skills training programs to support eventual release; and
- Develop protocols for individuals with significant TBI sequelae being released from incarceration to create stable supports upon release.

Oregon Department of Veterans Affairs:

- Increase number of VA-community partnerships;
- Ensure veteran services offices are well staffed and resourced; and
- Increase education and awareness of available resources.
Department of Human Services, General:

- Increase number of providers willing and able to serve individuals with challenging behaviors or other needs due to a brain injury;
- Enhance the availability of family support and respite services regardless of Medicaid eligibility;
- Consider modifying program eligibility between Aging and People with Disabilities (APD), Developmental Disabilities (DD), and OHA-Mental Health (MH) services; and
- Develop policies and procedures to maximize collaboration and successful transition of individuals between programs.

Department of Human Services, Aging & People with Disabilities (APD):

- Increase in-home services and supports;
- Maximize the availability of and public knowledge about services and supports that increase independence and well-being;
- Develop a full continuum of services and supports that maximize individual independence and expand options in the least-restrictive settings throughout the state; and
- Develop employment and education supports within the Medicaid Long Term Care System.

Department of Human Services, Office of Developmental Disability Services (ODDS):

- Develop processes and procedures for transitioning children who are moving from ODDS to the APD system to ensure continuity of care;
Provide outreach to families and partner with the education system to ensure that families are encouraged to apply for DD services in a timely manner; and
Maximize the availability of and knowledge about services and supports that increase independence and well-being.

Department of Human Services, Vocational Rehabilitation:
- Work with young adults in transition to ensure the best start in work;
- Increase services to individuals who sustain their TBI after 22 years of age;
- Increase provision and training of assistive technology; and
- Examine why services for this population have decreased during the past five years.

Specific recommendations from stakeholders with BI and their family members:
- Develop and provide more respite care and opportunities for social activities;
- Create mechanisms to support families in the development of plans for the future when parents aren’t around; and
- Remember to acknowledge PTSD for both survivors of TBI and their families.
Since the initial 2016 version of the GTF report, members of the Task Force and expert consultants have been actively advocating for improved access to services for Oregonians. These efforts have included legislative and policy-related activities, as well as outreach to other states.

OUTREACH (2016–2017)

Overview of TBI Services in Other States and Cost-Benefit Overview for Oregon

We have continued to learn from other states that have a TBI Director and a well-established statewide system of care coordination. We sought input from the TBI Directors in Colorado, Indiana, Iowa, Minnesota, and North Dakota concerning their funding sources, number of staff, and services provided. This information is summarized in the table below. (NOTE: The terms care coordination, case management, neuro-resource facilitation, resource facilitation, and resource navigation are all used to describe a range of services (low vs. high intensity) that include coordinated supports for youth and adults with brain injuries and their families.)
<table>
<thead>
<tr>
<th>State/Program Director</th>
<th>Funding Sources</th>
<th>Number of Staff</th>
<th>Services Provided</th>
</tr>
</thead>
</table>
| **Colorado**                   | Seated in Colorado Dept of Human Services, Office of Community Access and Independence | 4: Director at 1.0 plus 3 staff (1.0 Contracts Manager, .50 Project Manager, .50 Administrative Assistant); Trust fund services provided through competitive subcontract to Brain Injury Alliance of CO, includes Director of Client Services; 2 Program Assistants; 12.5 Case Managers | • Screenings  
• Advocacy  
• Outreach education/trainings  
• Technical assistance to state agencies  
• Policy and program development  
• Research grant program  
• Community grant program |
| Judy Dettmer: judy.dettmer@state.co.us |                                                                                       |                                                                                |                                                                                   |
| MINDSOURCE: Brain Injury Network |                                                                                      |                                                                                |                                                                                   |
| NOTE: Medicaid waiver managed through a different dept. |                                                                                      |                                                                                |                                                                                   |
| **Indiana**                    | Voc Rehab funding for resource facilitation                                           | 3 staff, including 2 resource facilitators                                    | • Identification (screenings)  
• Advocacy  
• Coordination among services providers, state agencies, employers  
• Connection to support groups  
• Education |
| Judy Reuter: judy.reuter@rhin.com |                                                                                      |                                                                                |                                                                                   |
| Rehab Hospital of Indiana, Resource Facilitation Dept |                                                                                      |                                                                                |                                                                                   |
| **Iowa**                       | Sub-contract through Iowa Dept of Public Health; Medicaid waiver                     | 12 staff, including director, admin, neuro-resource facilitators                | • Screenings  
• Advocacy  
• Employment services  
• Neuro-resource facilitation  
• Outreach education/trainings  
• Support groups |
| Geoff Lauer: glauer@biaia.org  | Executive Director; Brain Injury Alliance of Iowa; non-profit                        |                                                                                |                                                                                   |
| **Minnesota**                  | Contract with Dept of Health funded by license reinstatement fees from individuals convicted of DUI & Medicaid waiver | 70 staff, including director, admin staff, resource facilitators, & case managers | • Advocacy and public policy  
• Education and community outreach  
• Resource facilitation & case management  
• Statewide volunteer opportunities |
| David King: davidk@braininjurymn.org | Minnesota Brain Injury Alliance; non-profit                                         |                                                                                |                                                                                   |
| **North Dakota**               | Competitive subcontract from state DHS to non-profit set up in the UND Medical School-Rural Health (no waiver or trust fund) | 3: director, 1 staff for resource facilitation, and 1 staff for community outreach and education. | • Screenings  
• Advocacy  
• Outreach education/trainings  
• Resource facilitation  
• Support groups |
| Rebecca Quinn: rebecca.quinn@med.und.edu | Program Director ND Brain Injury Network; non-profit                                |                                                                                |                                                                                   |
TRAUMATIC BRAIN INJURY COSTS IN OREGON

- It is estimated that between 82,000 to 348,500 Oregonians currently live with TBI-related disability.\(^{14,15}\) Approximately 3,000 individuals are added to that number every year.\(^{16}\) TBI often results in physical and cognitive disabilities.
- These disabilities often prevent people with TBI from accessing the services they need.
- Services for people with TBI in Oregon are disconnected.
- There is no single agency that focuses on or coordinates these services.
- People with TBI are often served in high-cost private and state institutions, including emergency departments, homeless shelters, and correctional facilities.
- Families are devastated by the cost of care!

POTENTIAL FOR COST SAVINGS

- Oregon is one of 11 states that does not have a position dedicated to coordinating TBI prevention and medical and rehabilitation services. For a state that has been a national leader on concussion and TBI policy, this is unacceptable.
- 39 states do have dedicated positions and coordinated care systems (e.g., Colorado, Minnesota, Indiana, Iowa).
- These states have demonstrated a positive return on investment for coordinated care of TBI.
- Economic analyses of Indiana’s Resource Facilitation for TBI — a form of coordinated care — show an annual savings of $31,017,775 in lost wages.
- In Oregon, for the general population on the Oregon Health Plan, the Patient-Centered Primary Care Home program has resulted in substantial cost savings to the state.

GOVERNOR’S TASK FORCE RECOMMENDATIONS

- A coordinated continuum of prevention, medical, and rehabilitation services will reduce costs and increase resource efficiencies, resulting in more effective treatment of TBI and benefits to individuals, families, and the State of Oregon.
- To accomplish this task, Oregon needs a Brain Injury Coordinator-Advocate (TBI Director) seated in the Governor’s office.
• **Funding for the position should be shared** by OHA, ODVA, ODE, and DHS, and should expire after five years.
• The Brain Injury Coordinator – Advocate will work with public and private entities to establish a coordinated system of care for TBI.
BIBLIOGRAPHY FOR TBI COSTS IN OREGON

Donaldson B, Director of Operations, Minnesota Brain Injury Alliance, April 24, 2017.


Reid I, McGeary KA, Hicks MJ. Potential Economic Impact of Resource Facilitation for Post-Traumatic Brain Injury Workforce Re-Assimilation, Ball State University, Center for Business and Economic Research: 2011.


LEGISLATION (2018)

Expanding the Definition of Healthcare Professionals for Return to Play

Oregon’s efforts to provide necessary medical services to concussion survivors living in rural and frontier communities led to the passage of Senate Bill 1547 in early 2018. This important legislative addition to the ranks of Oregon’s concussion statutes expands the definition of “healthcare professional” for the purposes of providing return to play releases for young athletes who have suffered a concussion. Included within this definitional expansion are chiropractic physicians, naturopathic physicians, psychologists, physical therapists, and occupational therapists.

The 2018 law contemplates the creation of a certification process whereby the newly designated healthcare professionals will be required to possess specific expertise in diagnosing and treating concussions before they will be allowed to participate in the extremely important decision to sign a return-to-play form for a previously concussed athlete.

The practical effects of this new law are potentially profound with regard to treatment options for Oregonians living in rural and frontier communities throughout the state. For instance, if a rural community does not have access to a medical doctor skilled in the treatment of concussions, the new law would open the door for a chiropractor or naturopath in that same community to become certified for purposes of returning concussed players to the athletic field, making an otherwise unavailable medical service readily available to the members of that rural or frontier community.

The new law is the culmination of years of effort by stakeholders and physicians throughout the state to create a medically rigorous framework for certifying the newly identified healthcare professionals, as well as an effort to bridge the medical services gaps routinely encountered by rural and frontier communities in
Oregon with regard to concussion treatment availability. This alone places the new law squarely in line with the goals of the Governor’s Task Force.

**POLICY (2017–present)**

**Updating Oregon Administrative Rules to Include Credible History for Students with TBI**

Obtaining medical documentation of TBI for students poses a challenge to school district teams when conducting special education evaluations. This is especially difficult when students have not received medical attention for their TBI, have inconsistent medical profiles, or are from family situations in which medical care is either not an option or has not been documented.

The Oregon Department of Education (ODE) and the TBI Stakeholder Group (composed of educators, school psychologists, and rehabilitation professionals) recognize that the inability to obtain medical documentation for students moving toward special education eligibility has led to misidentification and under-identification of students with TBI in the state of Oregon.

ODE representatives and the TBI Stakeholder group have embarked on a process of revising the Oregon Administrative Rules to potentially include credible history as a means of identifying students with TBI who do not have medical documentation of this condition.

The proposed *Guided Credible History Interview Process* is a carefully crafted interview used with a reliable and credible source to thoroughly explore a student’s or family’s report of a possible TBI. This information is then used in place of a
written statement, medical statement, or health assessment statement to establish a student’s special education eligibility in the area of TBI.

The *Guided Credible History Interview Process* alone is not enough to determine a TBI, but it can screen for a potential TBI. If the *Guided Credible History Interview Process* suggests a credible history of TBI, a thorough assessment/evaluation is suggested.

**Administration for Community Living (ACL)**

**TBI State Partnership Program**

**Oregon’s Mentor Grant Proposal**

*(Submitted April 16, 2018)*

The purpose of the ACL TBI grant program is to create and strengthen a system of services and supports that maximizes the independence, well-being, and health of persons with TBI, their families, and their caregivers. Through the TBI State Partnership Program, ACL’s goal is twofold: 1) To help states strengthen and grow their capacity to support and maintain a system of services and supports that will help maximize the independence, well-being, and health of persons with TBI; and 2) to learn from and call upon the expertise of states that have built and maintained a strong and sophisticated state TBI infrastructure.

Governor Kate Brown designated the Center on Brain Injury Research and Training (CBIRT), University of Oregon, as the lead agency should Oregon be chosen as a recipient of TBI Implementation grant funding. CBIRT is a national leader in brain injury-related research and training and has played a crucial role in supporting the work of the Governor’s Task Force.
Proposal Abstract

**GOAL:** Our long-term goal is to improve Oregon’s capacity to provide consumer-directed, coordinated services and supports to people with TBI and their families across the lifespan.

**Objectives:** (1) Build capacity for providing coordinated services to people with TBI living in rural communities; (2) build capacity for providing coordinated services to people with TBI who are homeless; (3) create a comprehensive series of statewide professional and paraprofessional training webinars; (4) develop a statewide map of services and supports for Oregonians with TBI; (5) mentor a partner state seeking to establish a statewide system of services and supports for students with TBI; (6) mentor a partner state seeking to establish a Return to Learn (RTL) concussion management program for students with TBI; (7) mentor a partner state seeking to establish concussion-response legislative initiatives for non-high school sports.

**Outcomes/impacts:** (1) High ratings on consumer satisfaction surveys; (2) evidence of increased trainee knowledge, self-efficacy, and intent-to-use new information, tools, and resources; (3) successful sustainability plan, including legislative funding initiatives, to support a TBI Clinical Registry and statewide system of care coordination; and (4) measurable progress toward the creation of statewide services and supports for students with TBI, RTL concussion management, and concussion-response legislation in partner state.

**Products/deliverables:** (1) Tailored web-based trainings and print resources; (2) a suite of professional and paraprofessional training webinars; (3) state map of services and supports; (4) pilot project data for a TBI Clinical Registry; (5) funding sources for a TBI Clinical Registry and coordinated TBI case management system; and (6) online manuals and resources for partner state.