

Traumatic and Acquired Brain Injury (TABI) Phasic Implementation Plan for Identification, Intervention, and Enhanced Community Infrastructure Project

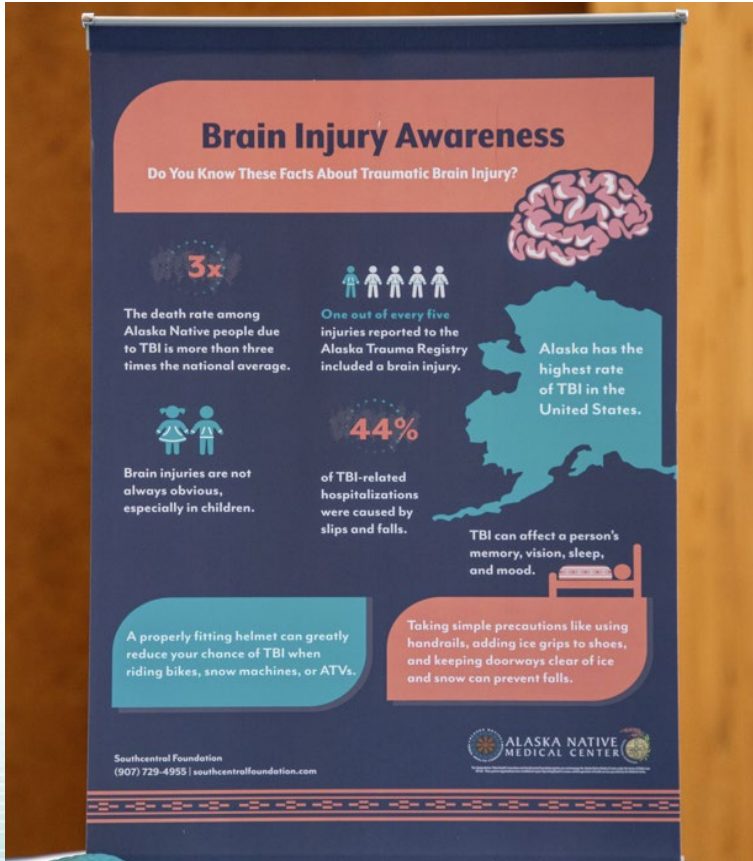


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- ▶ Dan Hartman, Medical Director
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Prevention, Awareness, & Resources



Brain Injury Awareness
Do You Know These Facts About Traumatic Brain Injury?



3x
The death rate among Alaska Native people due to TBI is more than three times the national average.

One out of every five injuries reported to the Alaska Trauma Registry included a brain injury.

44% of TBI-related hospitalizations were caused by slips and falls.

Alaska has the highest rate of TBI in the United States.

Brain injuries are not always obvious, especially in children.

TBI can affect a person's memory, vision, sleep, and mood.

A properly fitting helmet can greatly reduce your chance of TBI when riding bikes, snow machines, or ATVs.

Taking simple precautions like using handrails, adding ice grips to shoes, and keeping doorways clear of ice and snow can prevent falls.

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- ▶ Our minds are the bridge between the past and the future. This Brain Injury Awareness Month let's bridge the gap by protecting our community from traumatic brain injury. Protect yourself and those around you with basic safety measures — wear helmets while riding ATVs, stay hydrated, and get the recommended number of hours of sleep each night. Protect your brain. Protect your culture. #BrainInjury #AlaskaSafe #TBI



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Spotify – Brain Injury Awareness

Clicks – 27

Click Through Rate – Average

Impressions – 46,162

Reach – 8,194

iHeart – Brain Injury Awareness

Impressions – 28,018

Reach – 16,633

Google – Brain Injury Awareness

Clicks – 683

Click Through Rate – Above

Average

Impressions – 32,792

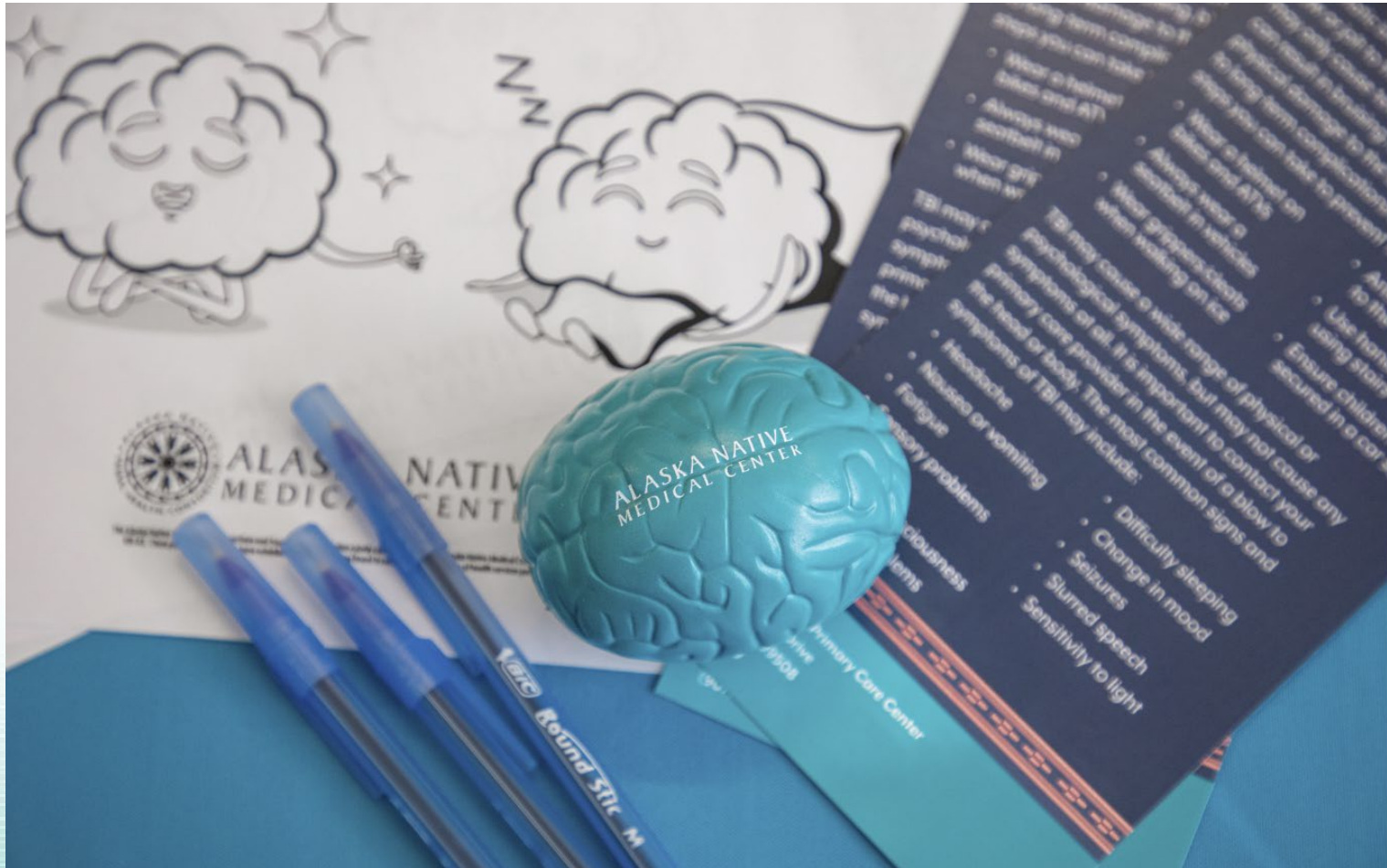
- #BrainInjury #AlaskaSafe #TBI



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Education & Training



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Education & Training

- 91 Providers (RN, BHC, PT/SLP/ OT, MD/DO, BCBA, Audiology, Optometry) participated in TABI specific education over the past year.
- >750 dedicated hours of learning completed
- Anticipate completion of >400 Continued Education Units/Credits (CEU) at ANMC specific to TABI by May 2024



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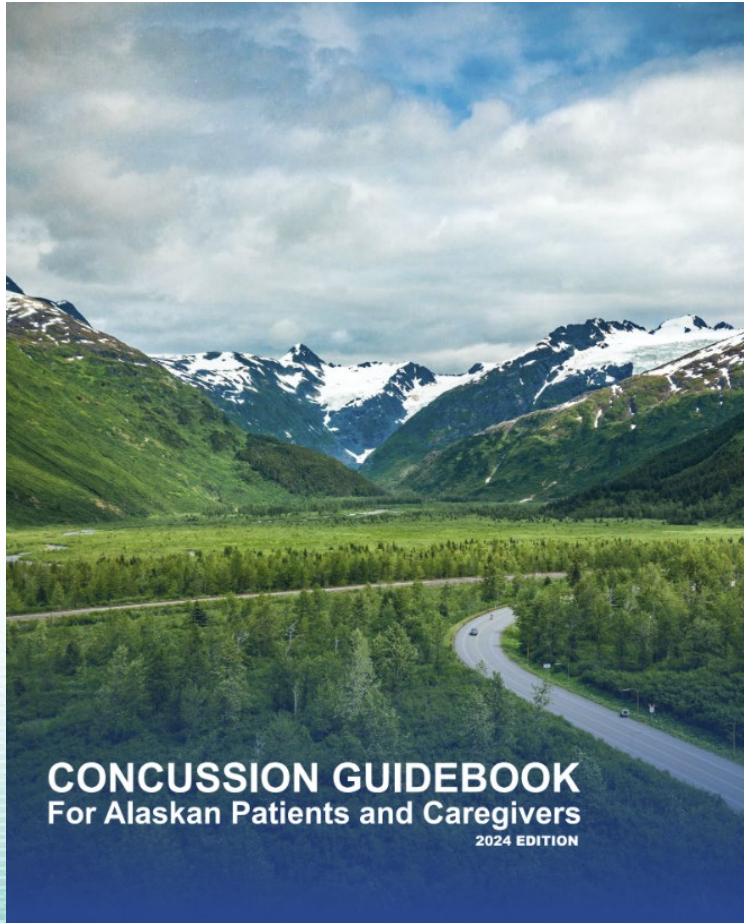


Service Expansion

- ▶ Audiology is now able to assess and treat the full spectrum of vestibular dysfunction
- ▶ Training will be completed May 2024
 - 15 new billable conditions
- ▶ Hired first outpatient adult SLP to support wrap around rehabilitative care with PT/OT (particularly helpful in stroke services).
- ▶ Behavioral Services expansion: 7 behavioral clinicians trained in TABI specific cognitive behavioral therapy



Achieving Goals with Community Partners



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Partner Organizations



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Data & Identification

- In CY 2023, the 800 active SCF empaneled customers with at least one encounter with a TBI diagnosis in that year had 21,340 encounters.
 - Average encounters in 2023 = 26.7
 - Median encounters in 2023 = 16
- In CY 2023, the 50,249 active SCF empaneled customers without an encounter with a TBI diagnosis in that year had 608,048 encounters.
 - Average encounters in 2023 = 12.1
 - Median encounters in 2023 = 7



Data & Identification

TABI encounter in 2023	Count	Percent of those with TBI encounter in 2023
Minors	133	17%
Adults	647	83%

- Estimated number of persons in Anchorage Service Unit with stroke is 1306, the majority being adults.

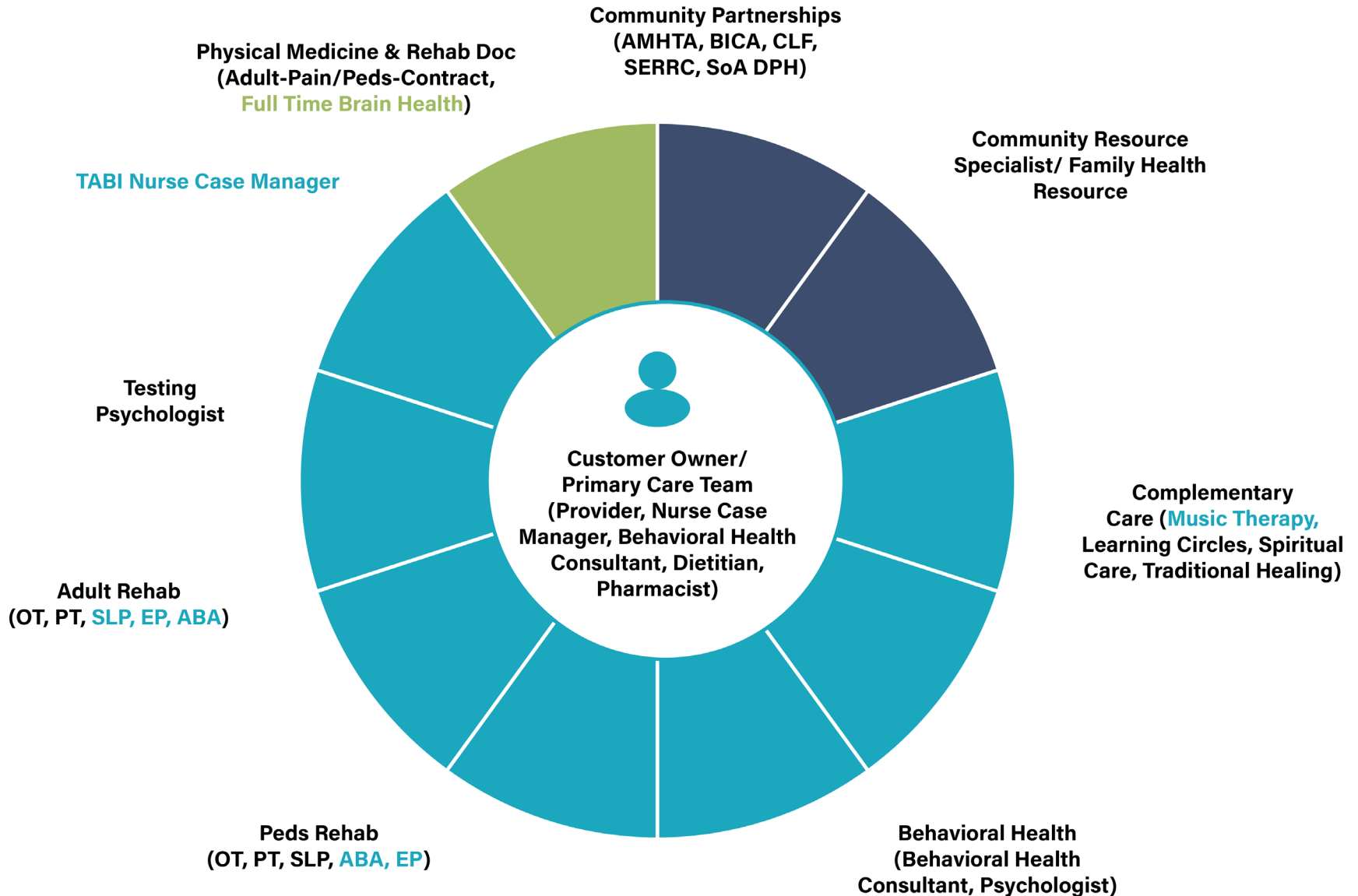


Value Sets

- ▶ Project approached partners (Spaulding, Colorado Childrens, Boston Childrens, and Marcus Institute) regarding their population health approaches, none are currently using value sets
- ▶ ANMC built ICD–10 value sets for acquired and traumatic brain injury, and ICD–10 value sets for proxy markers for brain injury (e.g. high emergency services utilization). Primary care, pediatrics, and inpatient teams will be supported by these value sets in the coming year.



Traumatic and Acquired Brain Injury Care Team



Current state

- ▶ Teams currently have good access to referral resources listed on prior slide, referrals are ad hoc.
- ▶ Rehabilitation CCBG established March 2024 on ANMC Quality Organizational Chart
 - Membership spans inpatient/outpatient continuum
 - Strong buy in from ANMC Trauma Services, ANMC Stroke Services, and ANMC Neurosurgery team (both for rehab CCBG and TABI).



TABI Logic Model: *Condensed*



Future State

- ▶ Interdisciplinary Assessment Team
 - Care model supports wrap around services and multidisciplinary longitudinal care
 - Levels 1–3 brief to in–depth assessments
- ▶ Discharge planning effort, partnering with ANMC Clinical Quality Council (trauma, stroke, neurosurgery)
- ▶ Apply ICD–10 value sets, outreach for adults (Anchorage, Valley) and children (state–wide, partnering with regions)
- ▶ Study current state versus future state (outcomes), build iterative improvement effort



Number of People Served

- ▶ In the past 12 months, 1318 persons with acquired or traumatic brain injury served.
 - Child and Family Developmental Services (OT, PT, SLP): 266
 - Physical Therapy and Exercise (OT, PT, Exercise):
 - Outpatient 867
 - Home visit 70
 - Valley Wellness Center (PT, Peds SLP, Exercise): 115

- ▶ At full implementation, July 2024 – June 2025, 1540 persons with acquired or traumatic brain injury served.
 - Child and Family Developmental Services (OT, PT, SLP): 316
 - Physical Therapy and Exercise (OT, PT, Exercise):
 - Outpatient 995
 - Home visit 94
 - Valley Wellness Center (PT, Peds SLP, Exercise): 135



Future Sustainability

- ▶ ANMC TABI management/organization mirrors Brain Injury Council of Alaska structure to support sustainability.
- ▶ ANMC senior leadership buy in is assured.
- ▶ Performa required by ANMC senior leadership as a condition of AMHTA grant application, currently functioning as planned.
- ▶ IDAT is scalable.
- ▶ Rehabilitation Clinical Core Business Group will support care quality/high reliability.



Replicability

- ▶ Referral Management standardization in statewide electronic health record (Cerner shared domain with 5 out of 16 THOs).
- ▶ ANMC discharge pathways in development for trauma services, stroke services, and neurosurgery.
- ▶ ANMC CFDS IDAT, med pod, testing psychology, and ABA structure are well developed and will be the model for TABI services.
- ▶ Valley Native Primary Care Center 150% comprehensive service expansion by 2028. TABI IDAT likely a component of this.



Questions?



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