National Capacity Building Project: Technical Assistance of the Survivor of Torture Programs

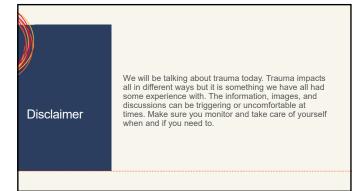
Assessment and Treatment of Traumatic Brain/Head Injury in Survivors of Torture

Richard F. Mollica, MD, MAR and Altaf Saadi, MD MSc February 8th, 2024



NATIONAL CONSORTIUM OF TORTURE TREATMENT









Why THI/TBI is Not Readily Identified and

Treated in Torture Survivors?

1. Primary care practitioners are not trained to identify and refer THI/TBI patients. 2. No simple, valid and reliable screening

instruments with good psychometric properties.

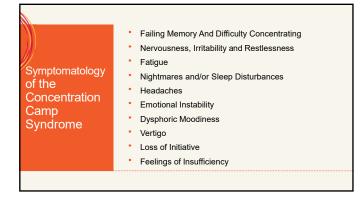
3. The patient and/or family does not recognize THI and the resulting symptoms of TBI as a medical problem. In many cultures a "folk diagnosis" does not exist for the presence of an organic brain syndrome. The symptoms of TBI are usually considered as "emotional" or as a negative character trait that is under the person's willful control.

Why THI/TBI is Not Readily Identified and Treated in Torture Survivors?	 The most common enduring symptoms of THI/TBI overlap with other psychiatric problems such as PTSD and depression: Poor executive functioning: planning, organizing, learning Impaired concentration Memory problems Easily confused Headache Photosensitivity Fatigue Depression symptoms Irritability Anxiety symptoms

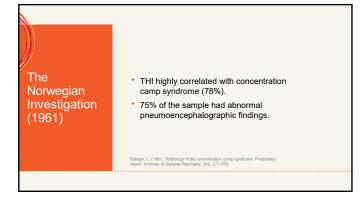
Why THI/TBI is Not Readily Identified and Treated in Torture Survivors?

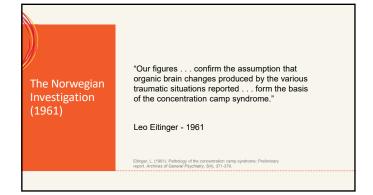
- THI/TBI diagnosis can be hidden behind the diagnosis of PTSD, depression, anxiety disorders, and substance abuse.
- 6. Strategies for treatment have not been developed for primary healthcare and community-based torture treatment centers.
- 7. Linkages of primary healthcare and communitybased torture treatment centers to specialized THI/TBI government-provided resources (state, VA) are weak, especially for non-English speaking patients.

n = 100 concentration camp survivors (out of 300). All had been systematically tortured. Most common torture: blows and kicks to the head, often with serious sequelae (e.g., loss of consciousness). Defined for the first time as the "concentration camp syndrome".



M)	FACTORS	TOTAL (n - %)	≥ 7 SYMPTOMS n (%)
	1. Loss of Weight		
Concentration	More than 30%	61	47 (77%)
Camp	Less than 30%	17	6 (35%)
	2. Captivity		
Syndrome in	Severe Degree	69	50 (77%)
Relation to	Moderate Degree	31	15 (48%)
Conditions	3. Head Injury		
during	• (+)	50	39 (78%)
Imprisonment	• (-)	50	26 (50%)
Imprisonment	Eitinger, L. (1961). Pathology of the report. Archives of General Psychia		ne: Preliminary



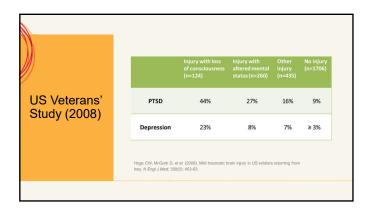


Traumatic Head Injury/Traumatic Brain Injury (THI/TBI) An injury to the brain, whether or not it is associated with lasting functional impairment. The exact nature of the symptoms depends upon the type and severity of the injury. Injuries include penetrating injuries, closed head injuries, and exposure to blasts. Disruptions in brain functioning can include a decreased level of consciousness amnesia, or other neurological or neuropsychological abnormalities.

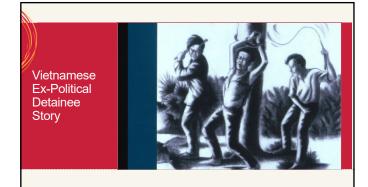
Tanielian T, Jaycox LH, et al. (2008). Invisible Wounds of War. RAND Center for Military Health Policy Research: Santa Monica, CA.

	Mechanisms of Injury						
		Injury with loss of consciousness (n=124)	Injury with altered mental status (n=260)	Other injury (n=435)	No injury (n=1706)		
ſ	Blast or explosion	79%	72.7%	23.2%	•		
US Veterans' Study (2008)	Bullet	4.8%	0.8%	1.6%			
	Fragment or shrapnel	25%	18.5%	8%			
	Fall	30.6%	28.1%	43.7%			
	Vehicle accident	30.6%	18.1%	13.3%	1.1		
	Other	12.9%	8.8%	33.8%			



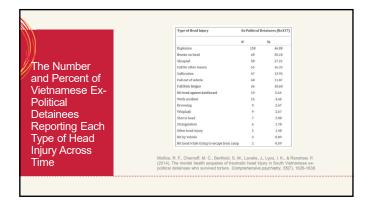


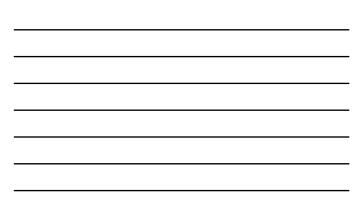


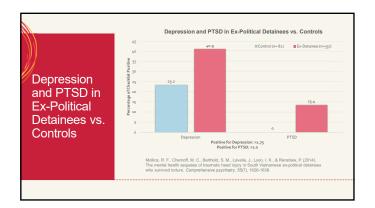


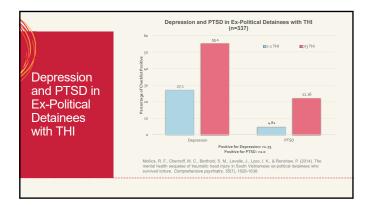
	Variable	Control (n=82)	Ex- Detainees (n=337)	P- value	Ex-Detainees w/o THI (n=210)	Ex-Detainees w/ THI (n=127)	P- value
	Age	62.4	60.5	.26	61.2	59-4	.10
	Marital Statu	s (%)					
Demographics	 Married 	75.6	79.8	.011	81	78	.012
of Study	•Div/Sep	9.8	13.4		11	17.3	
Participants	 Widowed 	4-9	4.7		4.8	4.7	
rantopanto	 Single 	9.4	2.1		3-3	0	
	Years of Education	8.6	11.2	<.001	11.5	10.9	<.001
	Mollica, R. F., Che sequelae of traum torture. Comprehe	atic head injur	y in South Vietna	mese ex-p	yoo, I. K., & Renshaw, olitical detainees who	P. (2014). The mental I survived	health

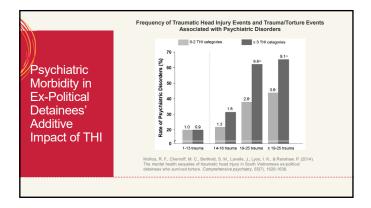
	Variable	Control (n=82)	Ex- Detainee (n=337)	P- value	Ex-Detainees w/o THI (n=210)	Ex-Detainees w/ THI (n=127)	P- value
))	Years in Re- education Camps (Mean)	N/A	6.5	N/A	6.6	6.3	-549
rauma and	# Trauma Events (Median)	1	13	<.001	12	15	<.001
orture listories	# Torture Events (Median)	0	7	<.001	6	10	<.001
listones	# Events of Torture and Trauma (Median)	1	20	< .0001	17.5	25	< .0001
		tic head injury	in South Vietnar	nese ex-pol	oo, I. K., & Renshaw, itical detainees who s	P. (2014). The mental h urvived	ealth

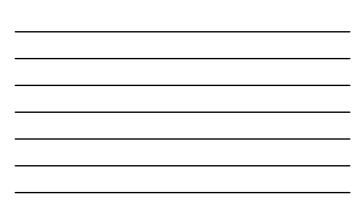




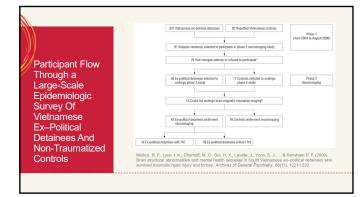




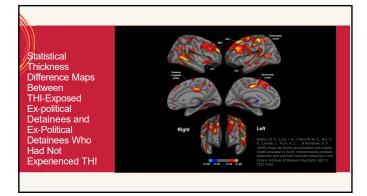


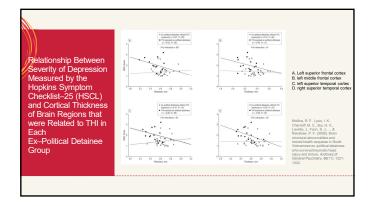


Neuroimaging MRI Study – Vietnamese Study Definition We considered a participant to be head-injured if they reported at least one head injury during any time period. However, to qualify, the head injury had to be associated with memory problems, loss of consciousness, and a least one other neurological symptom (e.g., trouble walking, talking, thinking, seeing or feeling ill).



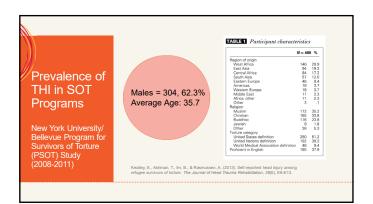


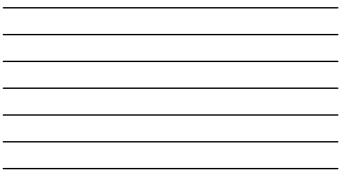




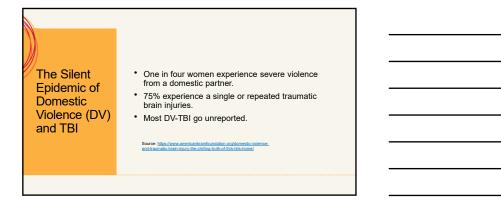


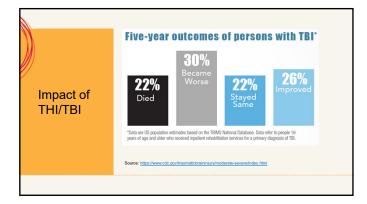


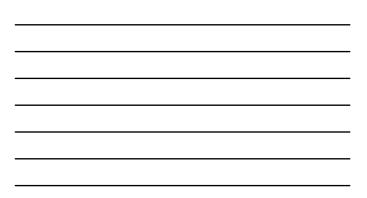


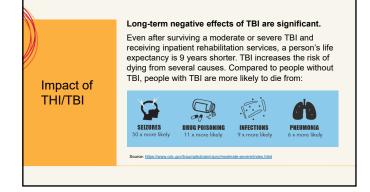




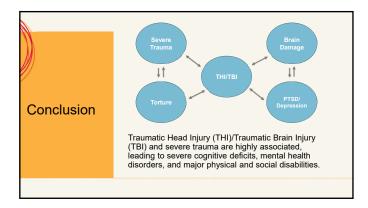






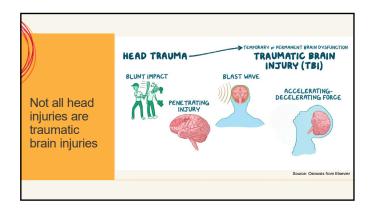




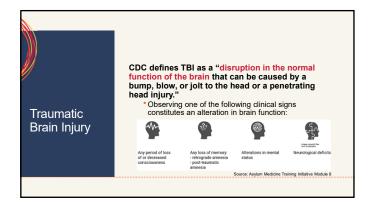






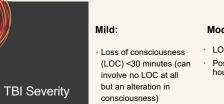












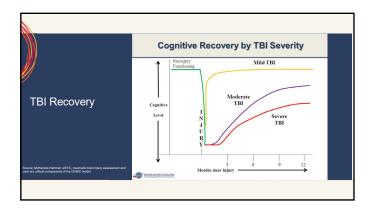
Post-traumatic amnesia <24 hours

Moderate-severe:

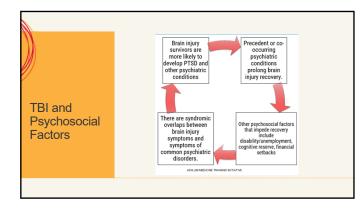
 LOC >30 min
 Post-traumatic amnesia >24 hours

Somatic Affective Cognitive Vestibular Nausea Headache Difficulty oncentrating Anxious Impulsivity D' TBI Sleep iss Depression ×1/--@ Symptoms **~** Emotional lability Photophobia Disorientation Images copyright free from Shutlerstock

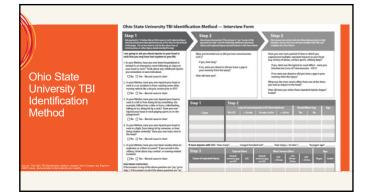


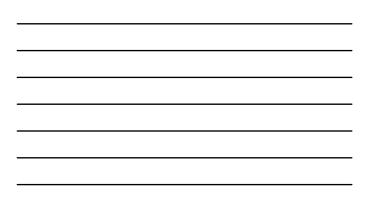












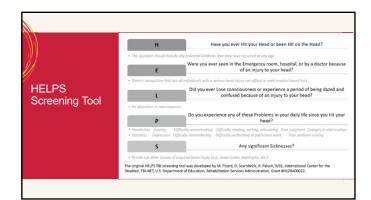
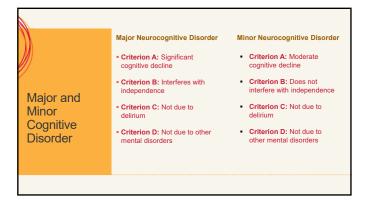
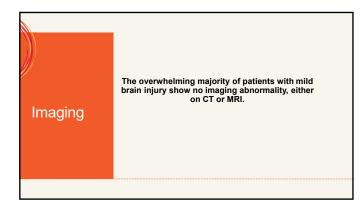


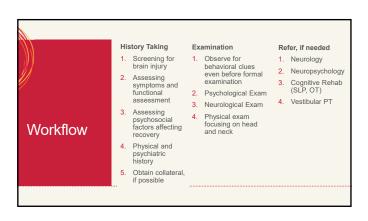


	Table 1: The Rowland Universal Dementia Assessment Scale		
	Cognitive domain	Question*	Points
Cognitive Screening	Registration	Given 4 grocery items to register (and recall later)	0
 Montreal Cognitive Assessment (recognizing multiple versions, MOCA-B) 	Visuospatial orientation	Left/right orientation with body parts	5
 St. Louis University Mental Status Exam (SLUMS) 	Praxis	Alternating hand movements with fist and palm	2
 Rowland Universal Dementia Assessment Scale (RUDAS) 	Visuoconstructional drawing	Copying image of a cube	3
	Judgment	Safety precautions when crossing a street	4
**Recognize inherent limitations in cognitive eening, need for adjustments, assessing across	Memory recall	Recalling 4 grocery items from above	8
ultiple cognitive domains, and potential need for neurologic or neuropsychological assessment.	Language	Animal naming in 1 minute	8
		Total score	/30













ᆋ EthnoMed

In addition: In Addition: 1. Provide specific examples of the way in which your patient's symptoms affect cagnitive functioning, 1. Provide yase whether the disability affects the patient's ability to learn fights, cores, or both, 2. Use clear and mergehood languages are of the area of the stability for learn fights, cores, or both, 2. Disc clear and mergehood languages are of the area of the stability for learn fights, cores, or both, 2. Disc clear and the stability to pass the ciliconial examt. PostT HALMANCH TSEES SIDSOBER AND DEPRESSION. No. 15 suffers from major degression, recurrent and severe, with a holicory of suicidal ideation resulting in multiple in-patient psychiatric hospitalizations. No. Durrently receives medication and treatments for degression to control the desire to harm herself. She does not pose a threat to others. She also has been diagnosed with Post Traumatic tress. Bioder effected to wirt runnain Biosnia which persist through inplatments and fishbacks. 5. DEMENTIA: The patient has severe dementia. Dementia is the loss of intellectual functioning which is significant enough to interfere with daily life. It is not caused by degression or motal illness. It projessibely worses over time and is prevensible. It is prevensible in the prevent in Ms. N. In the form of forgetfulness, impairments in understanding, reasoning, learning and language.



