

Supplementary Online Content

Fazel S, Wolf A, Pillas D, Lichtenstein P, Långström N. Suicide, fatal injuries, and other causes of premature mortality in patients with traumatic brain injury. Published online January 15, 2014. *JAMA Psychiatry*. doi:10.1001/jamapsychiatry.2013.3935.

eTable 1. Absolute Rates and Relative Odds of Death at Least 6 Months After Traumatic Brain Injury by Primary Cause of Death According to *ICD* Chapter and as Percentage of Total Deaths

eTable 2. Absolute Rates and Relative Odds of Premature Death at Least 6 Months After a Diagnosis of Traumatic Brain Injury (TBI) Compared With Unrelated Population Controls, Stratified by Psychiatric Comorbidity Diagnosed Before TBI or New Diagnoses After TBI

eFigure 1. Survival Function by TBI and psychiatric diagnosis status

eTable 1. Absolute Rates and Relative Odds of Death at Least 6 Months After Traumatic Brain Injury by Primary Cause of Death According to *ICD* Chapter and as Percentage of Total Deaths

ICD chapter	Deaths in cases, No. (% of deaths)	Deaths in controls, No. (% of deaths)	aOR (95% CI)
I Certain infectious and parasitic diseases	33 (1.4%)	89 (1.3%)	3.2 (2.1-4.9)
II Neoplasms	263 (11.1%)	1,599 (24.0%)	1.5 (1.3-1.8)
IV Endocrine nutritional and metabolic diseases	72 (3.0%)	179 (2.7%)	3.4 (2.5-4.6)
V Mental and behavioural disorders	135 (5.7%)	158 (2.4%)	8.3 (6.3-11.0)
VI Diseases of the nervous system	159 (6.7%)	219 (3.3%)	6.7 (5.3-8.4)
IX Diseases of the circulatory system	249 (10.5%)	933 (14.0%)	2.4 (2.0-2.7)
X Diseases of the respiratory system	73 (3.1%)	129 (1.9%)	4.8 (3.5-6.5)
XI Diseases of the digestive system	124 (5.2%)	218 (3.3%)	4.7 (3.7-5.9)
XVII Congenital malformations deformations and chromosomal abnormalities	34 (1.4%)	115 (1.7%)	2.3 (1.5-3.7)
XVIII Symptoms signs and abnormal clinical and laboratory findings not elsewhere classified	55 (2.3%)	228 (3.4%)	2.1 (1.5-2.9)
Other non-external (Chapters III, VII, VIII, XII, XIII, XIV, XV, XVI, XIX)	25 (1.5%)	75 (1.1%)	2.8 (1.7-4.6)
XX External causes of morbidity and mortality	1156 (48.6%)	2727 (40.9%)	3.8 (3.5-4.1)
Total deaths	2378 (100%)	6669 (100%)	3.2 (3.0-3.4)

Adjusted odds ratios (aOR) refer to risks of premature death by *ICD* chapter in TBI patients compared with general population controls matched by sex and birth year, and adjusted by income, and immigrant and single status.

eTable 2. Absolute Rates and Relative Odds of Premature Death at Least 6 Months After a Diagnosis of Traumatic Brain Injury (TBI) Compared With Unrelated Population Controls, Stratified by Psychiatric Comorbidity Diagnosed Before TBI or New Diagnoses After TBI

Diagnostic group	All-cause mortality		Suicide		Accidents	
	No. (%)	aOR (95% CI)	No. (%)	aOR (95% CI)	No. (%)	aOR (95% CI)
<i>Any psychiatric disorder before</i>						
No TBI, no psychiatric disorder	6,718 (0.3%)	1.0 (ref)	1,078 (0.1%)	1.0 (ref)	1,066 (0.1%)	1.0 (ref)
No TBI, psychiatric disorder	1,327 (1.6%)	4.4 (4.0-4.7)	320 (0.4%)	7.3 (6.1-8.7)	147 (0.2%)	4.0 (3.2-5.1)
TBI, no psychiatric disorder	1,685 (0.9%)	2.4 (2.3-2.6)	291 (0.1%)	2.5 (2.1-2.9)	383 (0.2%)	3.4 (3.0-3.9)
TBI, psychiatric disorder	1,125 (5.5%)	12.9 (11.6-14.3)	231 (1.1%)	17.9 (13.8-23.2)	191 (0.9%)	17.3 (13.1-22.8)
<i>Any new psychiatric disorder*</i>						
No TBI, no psychiatric disorder	5,174 (0.3%)	1.0 (ref)	606 (0.03%)	1.0 (ref)	872 (0.04%)	1.0 (ref)
No TBI, psychiatric disorder	1,544 (1.5%)	4.2 (3.9-4.5)	472 (0.5%)	10.7 (9.0-12.8)	194 (0.2%)	3.2 (2.6-3.9)
TBI, no	1,050	1.8 (1.5-	141	1.5 (1.0-	277	3.1 (1.8-

psychiatric disorder	(0.6%)	2.2)	(0.1%)	2.1)	(0.2%)	5.4)
TBI, psychiatric disorder	635 (3.5%)	7.4 (6.6- 8.3)	150 (0.8%)	11.9 (8.9- 16.0)	106 (0.6%)	7.8 (5.8- 10.6)

Any psychiatric disorder also included substance abuse. aORs depict odds ratios for deaths during follow-up in TBI patients compared with unrelated population controls, stratified by psychiatric diagnoses, and adjusted for income, marital status and immigration status. 95% CIs are 95% confidence intervals. The suicide category included both certain and undetermined deaths

*Within the subsample of those who had no psychiatric diagnoses before TBI.

eFigure 1. Survival Function by TBI and psychiatric diagnosis status



