

SUPPLEMENTARY TABLE S1. SUBJECT CHARACTERISTICS OF DISCOVERY COHORT

<i>Blast-related mTBI Deployed controls (DC) Civilian controls (CC)</i>				
<i>Demographics</i>	<i>Mean (SD) range</i>	<i>Mean (SD) range</i>	<i>Mean (SD) range</i>	<i>p value</i>
Age (years)	32.7 (10.8) 22–60	29.7(5.2), 23–42	33.3 (10.7) 22–61	n.s.
Race % (A, B/AA, W, O)	3.7, 7.4, 74.1, 14.8	0, 18.2, 54.5, 27.3	9.7, 0, 80.6, 9.7	n.s.
Hispanic %	7.4	9.1	6.5	n.s.
APOE4 positive %	33.3	63.6	25.8	n.s.
<i>Blast exposure/TBI history</i>				
Number of blast-related mTBIs during service	14 (22) 1–100	0	N.D.	
Number of lifetime mTBIs with LOC	2.0 (1.7) 0–6	0	N.D.	
Time since last blast-related mTBI to blood draw (years)	4.6 (1.5) 1.6–7.7			
<i>Behavioral measures</i>				
PCL-M Total score	51.1 (18.2) 22–83	26 (10) 17–45	N.D.	0.001
PHQ-9 score	11.2 (7.9) 0–25	3.82 (4.8) 0–12	N.D.	0.007
PSQI score	10.6 (4.9) 1–19	5.6 (3.4) 1–11	N.D.	0.004
AUDIT-C score	4.2 (2.4) 0–10	2.8 (1.7) 0–5	N.D.	n.s.

Groups were statistically comparable in terms of: Age ($F[2,66]=0.503$, n.s., $n=27, 11, 31$, mTBI, DC, CC, respectively); race indicated as Asian (A), black/African American (B/AA), white (W), and other (O) ($\chi^2 [6]=8.96$, n.s., $n=27, 11, 31$, mTBI, DC, CC); percent self-identifying as Hispanic ($\chi^2 [2]=0.09$, n.s., $n=27, 11, 31$, mTBI, DC, CC); and percent APOE4 positive ($\chi^2 [2]=5.163$, n.s., $n=27, 11, 31$, mTBI, DC, CC). All participants were male. Loss of consciousness (LOC) denotes number of reported LOCs lasting <30 min (LOC >30 was a study exclusion criterion). Post-traumatic stress disorder (PTSD) was evaluated with the PTSD Checklist-Military version (PCL-M) ($T[36]=4.29$, $p\leq 0.001$, $n=27$ and 11 , mTBI and DC). Presence and severity of depressive symptoms were evaluated with the Patient Health Questionnaire-9 (PHQ-9) ($T[36]=2.85$, $p\leq 0.007$, $n=27$ and 11 , mTBI and DC). The Pittsburgh Sleep Quality Index (PSQI) evaluated sleep quality ($T[34]=3.10$, $p\leq 0.004$, $n=25$ and 11 , mTBI and DC). Alcohol use was measured with the Alcohol Use Disorders Identification Test-Consumption items (AUDIT-C) ($T[36]=1.69$, n.s., $n=27$ and 11 , mTBI and DC). N.D. indicates not determined and n.s. denotes non statistically significant.

mTBI, mild traumatic brain injury; SD, standard deviation. APOE, apolipoprotein E.