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# Corrigendum: Headache among combat-exposed veterans and service members and its relation to mild TBI history and other factors: a LIMBIC-CENC study

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# KEYWORDS

traumatic brain injury, concussion, headache, postconcussive headache, veterans, blast injuries, military medicine, prediction

# A Corrigendum on

Headache among combat-exposed veterans and service members and its relation to mild traumatic brain injury history and other factors: a LIMBIC-CENC study

by Walker, W. C., Clark, S. W., Eppich, K., Wilde, E. A., Martin, A. M., Allen, C. M., Cortez, M. M., Pugh, M. J., Walton, S. R., and Kenney, K. (2023). *Front. Neurol.* 14:1242871. doi: 10.3389/fneur.2023.1242871

In the published article, there was an error in "Figure 1. Study Sample Inclusion Flow Diagram". After publication, the authors were informed that one site's IRB retroactively deemed their data to be invalid, and therefore cannot be published (Site #10; Eisenhower Army Medical Center; located near Augusta, GA). The updated figure reflects changes excluding the removed data and updated the results data in all main Tables and supplementary Tables; Table 1. Headache (HA) prevalence (experienced HA lately) stratified by # lifetime mTBIs; Table 2. Headache (HA) impact stratified by # lifetime mTBIs; Table 3. *Post-hoc* comparisons of HIT-6 headache severity categories by # lifetime mTBIs; Table 4. Categorical covariates stratified by absence/presence of Headache (HA); Table 5. Continuous covariates stratified by absence/presence of Headache (HA);

Table 6. Multivariable logistic regression—experience headaches lately yes/no; Table 7. Multivariable linear regression for HIT-6 total score (multiple  $R^2 = 0.350$ ).

In the article, there were errors in the following supplementary tables as published. Supplementary Table 1. *Post-hoc* comparisons HIT-6 Total Sore by Number of mild TBI groups; Supplementary Table 2. Post-hoc comparisons of HIT-6 Impact categories by Number of mild TBI groups; Supplementary Table 3. Prevalence of Headache Lately; Logistic regression sensitivity analysis including only mTBI positive participants (N=1,234); Supplementary Table 4. Headache Impact (HIT6 Total Score); Linear Regression sensitivity analysis including only mTBI positive participants who endorsed HA Lately (N=853).

In the published article, there were errors in the **Abstract**, *Methods* and *Results* sections as published. They should have been written as:

**Methods:** Participants with non-credible symptom reporting were excluded, leaving N=1,674 of whom 81% had positive mTBI histories.

**Results:** In covariate-adjusted analysis, HA prevalence was higher with greater number of blast-related mTBIs (OR 1.81; 95% CI 1.48, 2.23) non-blast mTBIs while deployed (OR 1.42; 95% CI 1.14, 1.79), or non-blast mTBIs when not deployed (OR 1.23; 95% CI 1.02, 1.49).

In the published article, there were errors in the **Methods**, *Participants* section as published. This should have been written as:

For this secondary analysis, all LIMBIC-CENC PLS participants whose enrollment (baseline) assessment data were available at time of dataset extraction were included (n=1,832). .... We also excluded participants with evidence of noncredible symptom reporting based on failing (126) the Mild Brain Injury Atypical Symptom (mBIAS) scale, a validated self-reported measure of symptom reporting credibility in the mTBI population using the developer's recommended cut-point of 8 or higher (Cooper et al., 2011). This left a final analytic sample of 1,674 participants (see Figure 1).

In the published article, there were errors in the **Results** section as published. This should have been written as:

In our final sample of 1,674 combat-exposed current and former SMs, 19% had an entirely negative lifetime mTBI history, 47% had sustained 1-2 mTBIs, and 34% had 3 or more. Rates of positive history across the mTBI mechanism/setting categories were 63% for Combat mTBI(s), 67% for Non-combat mTBI(s), and 37% for Blast-related mTBI(s).

In the published article, there were errors in the **Results**, *HA* prevalence and impact across mTBI history groups (0, 1–2, 3+) section as published. This should have been written as:

For example, the rate of severe HA pain sometimes, often or always was 70% for the no TBI group compared to 78% for those with 1-2 or 3+ lifetime mTBIs. (See Table 3 for HIT-6 item #1 post-hoc testing; the other post-hoc testing data are available in Supplementary Tables S1, S2).

In the published article, there were errors in the **Results**, *Main multivariable regression analyses* section as published. This should have been written as:

For TBI history, the number of lifetime mTBIs of every type was significant, including blast-related (OR = 1.80), Blunt during

combat-deployment (OR = 1.41), and Blunt outside of deployment (OR = 1.23). Other significant factors included identifying as female (OR = 3.57), age (0.76), total months combat-deployed (OR = 1.23), and symptoms of depression on PHQ-9 (OR = 1.56), PTSD on PCL-5 (OR = 1.54), and disturbed sleep quality on PSQI (OR = 1.78).

For TBI history, only blast-related mTBIs were significant (Beta 0.57). Blunt-only mTBIs did not reach significance, regardless of contextual type (combat or non-combat). Other factors found significant in the HIT-6 linear regression that were also significant in the HA prevalence logistic regression were female identity (Beta 3.4), younger age (Beta -0.98), PTSD symptoms (Beta 4.9), and reduced sleep quality (Beta 1.4). Demographic characteristics that were significant in the HIT-6 score linear regression model but not the preceding HA prevalence model were Black racial identity (Beta 2.3) and Hispanic/Latino ethnic identity (Beta 2.0) as compared with White/non-Hispanic racial/ethnic identity.

In the published article, there were errors in the Discussion section as published. This should have been written as:

## Discussion

The overall sample (n=1,674), which included 19% with negative TBI histories, had a HA point prevalence (i.e., HA lately) of 65%.

The covariate-adjusted logistic regression model for HA prevalence (see Table 6) showed higher prevalence with a greater number of any subtype of mTBI (see Table 6), with the nominally highest OR for blast-related mechanism (OR 1.80; 95% CI 1.47, 2.22).

Our large sample, which included 215 females (13%), enabled us to examine their relative risk for HA, a previously understudied research question in the military population due to insufficient numbers of females in most prior HA studies. Our results show that female sex had the nominally highest OR (3.57; 2.37, 5.48) for experiencing HA lately (see Table 6), and had a strong association with higher HA impact (Beta 3.4; 2.1, 4.8; see Table 7).

In the published article, there were errors in the **Discussion**, *Study strengths* section as published. This should have been written as:

Study strengths included our large sample (n=1,674) of individuals with military combat exposure drawn from the LIMBIC-CENC multicenter cohort with rigorously determined lifetime mTBI histories and a large breadth of data available from their comprehensive assessments.

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

# Publisher's note

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.

TABLE 1  $\,$  Headache (HA) prevalence (experienced HA lately) stratified by # lifetime mTBIs.

	No TBI	1-2 mTBls	3+ mTBls	Total	<i>p</i> - value <sup>a</sup>
HA lately					<0.001
No	173 (54%)	292 (37%)	125 (22%)	590 (35%)	
Yes	148 (46%)	504 (63%)	432 (78%)	1,084 (65%)	
Total	321 (100%)	796 (100%)	557 (100%)	1,674 (100%)	

 $<sup>^{\</sup>rm a}$ Pearson's Chi-squared test; p-values bolded if < 0.05.

TABLE 2 Headache (HA) impact stratified by # lifetime mTBIs.

Characteristic	All, N = 1,084	No TBI, N = 148	1-2 mTBIs, N = 504	3+ mTBls, N = 432	p-value <sup>a</sup>
HIT-6 total score, mean (SD)	58.6 (8.8)	56.3 (9.4)	59.1 (8.9)	58.8 (8.4)	0.005
HIT-6 impact categories, n (%)					0.012
Little/none	167 (15%)	37 (25%)	73 (14%)	57 (13%)	
Some	212 (20%)	30 (20%)	100 (20%)	82 (19%)	
Substantial	162 (15%)	19 (13%)	68 (13%)	75 (17%)	
Severe	542 (50%)	61 (41%)	263 (52%)	218 (50%)	
Headache severe pain, n (%)					0.007
Never	22 (2.0%)	9 (6.1%)	7 (1.4%)	6 (1.4%)	
Rarely	226 (21%)	35 (24%)	103 (20%)	88 (20%)	
Sometimes	448 (41%)	55 (37%)	198 (39%)	195 (45%)	
Very often	314 (29%)	37 (25%)	163 (32%)	114 (26%)	
Always	73 (6.7%)	11 (7.5%)	33 (6.5%)	29 (6.7%)	

 $<sup>^{</sup>a}$ Kruskal-Wallis rank sum test for HIT-6 total score; Pearson's Chi-squared test for HIT-6 and severe pain frequency categories; p-value bolded if < 0.05.

TABLE 3 Post-hoc comparisons of HIT-6 headache severity categories by # lifetime mTBls.

Dimension	Value	Never	Rarely	Sometimes	Very often	Always
No TBI	Residuals	3.782071	0.9440547	-1.046433	-1.098988	0.38620065
No TBI	P values	0.002333	1.00	1.00	1.00	1.00
1–2 mTBIs	Residuals	-1.398384	-0.3259913	-1.297286	2.265382	-0.23624680
1–2 mTBIs	P values	1.00	1.00	1.00	0.352338	1.00
3+ mTBIs	Residuals	-1.220961	-0.3282617	2.053412	-1.538916	-0.02948149
3+mTBIs	P values	1.00	1.00	0.600490	1.00	1.00

p-value bolded if < 0.05.

TABLE 4 Categorical covariates stratified by absence/presence of Headache (HA).

	Ove	erall	Experienced HA lately			
Characteristic	$N = 1,674^{a}$	N Missing	No, N = 590 <sup>a</sup>	Yes, $N = 1,084^{a}$	<i>p</i> -value <sup>b</sup>	
Gender		1			<0.001	
Male	1,458 (87%)		547 (93%)	911 (84%)		
Female	215 (13%)		43 (7.3%)	172 (16%)		
Race		11			0.6	
White	1,224 (74%)		441 (75%)	783 (73%)		
Black or African American	307 (18%)		99 (17%)	208 (19%)		
American Indian or Alaska Native	15 (0.9%)		4 (0.7%)	11 (1.0%)		
Asian	26 (1.6%)		7 (1.2%)	19 (1.8%)		
Other	91 (5.5%)		34 (5.8%)	57 (5.3%)		
Ethnicity		20			0.005	
Not Hispanic or Latino	1,372 (83%)		506 (86%)	866 (81%)		
Hispanic or Latino	282 (17%)		79 (14%)	203 (19%)		
Blast TBI	606 (36%)	0	117 (20%)	489 (45%)	<0.001	
Non-blast TBI	1,192 (71%)	0	385 (65%)	807 (74%)	<0.001	
Deploy TBI	889 (53%)	0	201 (34%)	688 (63%)	<0.001	
Non-deploy TBI	1,087 (65%)	0	357 (61%)	730 (67%)	0.005	
Early HA after TBI*	379 (28%)	0	88 (21%)	291 (31%)	<0.001	
Controlled blast exposures		0			0.017	
None	464 (28%)		179 (30%)	285 (26%)		
Minimal (1–9)	422 (25%)		159 (27%)	263 (24%)		
Light (10–29)	272 (16%)		100 (17%)	172 (16%)		
Moderate (30–98)	228 (14%)		72 (12%)	156 (14%)		
Heavy (99+)	288 (17%)		80 (14%)	208 (19%)		
Alcohol use (AUDIT-C)		6			0.019	
None	300 (18%)		91 (16%)	209 (19%)		
Moderate	788 (47%)		268 (46%)	520 (48%)		
Risky	580 (35%)		228 (39%)	352 (33%)		
PCL-5/PTSD		8			<0.001	
No PTSD (≤35)	1,171 (70%)		499 (85%)	672 (62%)		
Possible PTSD (36-49)	289 (17%)		60 (10%)	229 (21%)		
Highly probable PTSD (≥50)	206 (12%)		28 (4.8%)	178 (16%)		
PHQ-9/depression		18			<0.001	
No depression (0–4)	598 (36%)		334 (57%)	264 (25%)		
Mild depression (5-9)	485 (29%)		146 (25%)	339 (32%)		
Moderate depression (10–15)	384 (23%)		85 (15%)	299 (28%)		
Moderate/severe depression (≥16)	189 (11%)		21 (3.6%)	168 (16%)		
BMI category		11			0.093	
<20	18 (1.1%)		5 (0.9%)	13 (1.2%)		
>29	875 (53%)		289 (49%)	586 (54%)		
20-29	770 (46%)		292 (50%)	478 (44%)		

(Continued)

TABLE 4 (Continued)

	Overall		Experienced HA lately		
Characteristic	$N = 1,674^{a}$	N Missing	No, N = 590 <sup>a</sup>	Yes, $N = 1,084^a$	<i>p</i> -value <sup>b</sup>
HTN	581 (35%)	0	187 (32%)	394 (36%)	0.076
Stroke	8 (0.5%)	0	2 (0.3%)	6 (0.6%)	0.8
Neuro disorder	71 (4.2%)	0	24 (4.1%)	47 (4.3%)	>0.9
Diabetes	91 (5.4%)	0	32 (5.4%)	59 (5.4%)	>0.9
OSA high risk (STOP-BANG)	313 (19%)	23	82 (14%)	231 (22%)	<0.001

<sup>&</sup>lt;sup>a</sup>n (%).

s Pearson's Chi-squared test; Fisher's exact test; p-value bolded if < 0.05.
\*N = 1,353 with positive mTBI histories.

TABLE 5 Continuous covariates stratified by absence/presence of Headache (HA).

	Ove	rall	Experienced HA lately		
Characteristic	<i>N</i> = 1,674		No, <i>N</i> = 590 Yes, <i>N</i> = 1,084		p-value <sup>a</sup>
Age (years)		0			0.039
Mean (SD)	41 (10)		42 (11) 40 (9)		
Median (IQR)	39 (33, 48)	0	40 (32, 51)	39 (33, 47)	
Num of lifetime mTBIs					<0.001
Mean (SD)	2.15 (1.97)		1.58 (1.69)	2.45 (2.04)	
Median (IQR)	2.00 (1.00, 3.00)		1.00 (0.00, 2.00)	2.00 (1.00, 3.00)	
Time since last TBI (years)*		0			<0.001
Mean (SD)	12 (9)		14 (11)	11 (8)	
Median (IQR)	10 (6, 14)		11 (7, 18)	9 (5, 13)	
Num of non-blast TBIs overall		0			< 0.001
Mean (SD)	1.61 (1.66)		1.33 (1.48)	1.76 (1.73)	
Median (IQR)	1.00 (0.00, 2.00)		1.00 (0.00, 2.00)	1.00 (0.00, 3.00)	
Num non-blast TBIs when deployed		0			< 0.001
Mean (SD)	0.35 (0.63)		0.23 (0.50)	0.42 (0.69)	
Median (IQR)	0.00 (0.00, 1.00)		0.00 (0.00, 0.00)	0.00 (0.00, 1.00)	
Num non-blast TBIs not deployed		0			<0.001
Mean (SD)	1.26 (1.42)		1.11 (1.31)	1.35 (1.46)	
Median (IQR)	1.00 (0.00, 2.00)		1.00 (0.00, 2.00)	1.00 (0.00, 2.00)	
Num of months combat deployed		34			<0.001
Mean (SD)	20 (13)		18 (12)	21 (13)	
Median (IQR)	15 (11, 26)		14 (10, 24)	17 (12, 28)	
Combat intensity (DRRI-2)		3			<0.001
Mean (SD)	37 (15)		33 (13)	39 (15)	
Median (IQR)	34 (24, 48)		30 (22, 40)	37 (26, 50)	
Num of controlled blasts		0			0.001
Mean (SD)	28 (37)		23 (34)	30 (38)	
Median (IQR)	7 (0, 45)		5 (0, 30)	9 (0, 50)	
Depression (PHQ9)		18			<0.001
Mean (SD)	7.7 (5.9)		5.0 (4.9)	9.2 (5.8)	
Median (IQR)	7.0 (3.0, 11.0)		4.0 (1.0, 8.0)	8.0 (5.0, 13.0)	
PTSD (PCL5)		8			<0.001
Mean (SD)	25 (19)		17 (16)	30 (18)	
Median (IQR)	23 (9, 39)		12 (3, 25)	28 (15, 43)	
Sleep Quality (PSQI)		28		,	<0.001
Mean (SD)	10.2 (4.8)		7.9 (4.5)	11.4 (4.4)	
Median (IQR)	10.0 (6.0, 14.0)		8.0 (4.0, 11.0)	12.0 (8.0, 15.0)	
Social support (DRRI-2)	,	2			<0.001
Mean (SD)	39 (8)		40 (8)	38 (8)	
Median (IQR)	40 (34, 45)		42 (36, 47)	39 (33, 44)	
Self-efficacy (GSE)		3		,	<0.001
Mean (SD)	32.1 (4.8)	<u> </u>	33.3 (4.5)	31.4 (4.8)	
Median (IQR)	32.0 (29.0, 36.0)		34.0 (30.0, 37.0)	31.0 (28.0, 35.0)	

 $<sup>^</sup>a$  Wilcoxon rank sum test; p-value bolded if < 0.05.  $^*$  Time since last mTBI only applies to participants with positive mTBI histories (N = 1,353).

TABLE 6  $\,$  Multivariable logistic regression—experience headaches lately yes/no.

Characteristic Gender Male < 0.001 Female 3.57 2.37, 5.48 Num of blast TBIs (combat and < 0.001 1.80 1.47, 2.22 noncombat) Num of combat/nonblast TBIs 1.41 1.13, 1.78 0.003 Num of noncombat/nonblast TBIs 1.23 1.02, 1.49 0.035 Num of months combat deployed 1.23 1.04, 1.45 0.014 Controlled blast exposures None Minimal (1-9) 1.06 0.76, 1.48 0.7 0.67, 1.44 Light (10-29) 0.98 >0.9 Moderate (30-98) 1.23 0.81, 1.880.3 Heavy (99+) 1.10 0.72, 1.66 0.7 OSA high risk (STOP-BANG) 1.13 0.80, 1.62 0.5 Race White Black or African American 0.93 0.67, 1.29 0.7 American Indian or Alaska Native 2.35 0.57, 16.1 0.3 Asian 2.63 1.06, 7.22 0.046 0.53 0.30, 0.95 0.030 Other Ethnicity Not Hispanic or Latino Hispanic or Latino 1.33 0.93, 1.92 0.12 Alcohol Use (AUDIT-C) None 1.27 0.89, 1.81 0.2 Moderate Risky 0.87 0.60, 1.26 0.5 HTN No Yes 1.20 0.92, 1.57 0.2 0.76 0.62, 0.93 0.009 Age BMI categories 20-29 1.00 <20 0.31, 3.62 >0.9 >29 1.03 0.79, 1.33 0.8 Depression (PHQ-9 total score) 1.56 1.13, 2.15 0.007 PTSD (PCL-5 total score) 1.54 1.07, 2.23 0.021 Sleep quality disturbance (PSQI total 1.78 1.40, 2.28 < 0.001 Social support (DRRI-2 social total) 1.15 0.95, 1.40 0.2 Combat intensity (DRRI-2 combat 1.09 0.83, 1.42 0.5 total) Self-efficacy (GSE total) 1.08 0.87, 1.35 0.5

TABLE 7 Multivariable linear regression for HIT-6 total score (multiple  $R^2=0.350$ ).

	Multivariable			
Characteristic	Beta <sup>a</sup>	95% CI <sup>b</sup>		
Gender				
Male	-	-		
Female	3.4	2.1, 4.8	<0.001	
Num of blast TBIs (combat and noncombat)	0.57	0.02, 1.1	0.043	
Num of combat/nonblast TBIs	0.38	-0.32, 1.1	0.3	
Num of noncombat/nonblast TBIs	-0.09	-0.75, 0.58	0.8	
Num of months combat deployed	-0.01	-0.59, 0.57	>0.9	
Controlled blast exposures				
None	-	-		
Minimal (1-9)	-0.98	-2.3, 0.33	0.14	
Light (10-29)	-0.32	-1.8, 1.2	0.7	
Moderate (30–98)	-0.71	-2.3, 0.86	0.4	
Heavy (99+)	-0.71	-2.2, 0.81	0.4	
OSA high risk (STOP-BANG)	0.69	-0.54, 1.9	0.3	
Race				
White	-	-		
Black or African American	2.3	1.1, 3.6	<0.001	
American Indian or Alaska Native	2.9	-1.5, 7.2	0.2	
Asian	-1.0	-4.4, 2.4	0.6	
Other	2.4	0.28, 4.5	0.027	
Ethnicity				
Not Hispanic or Latino	-	-		
Hispanic or Latino	2.0	0.79, 3.3	0.001	
Alcohol use (AUDIT-C)				
None	-	-		
Moderate	-0.52	-1.8, 0.75	0.4	
Risky	-2.3	-3.6, -0.91	0.001	
HTN	·			
No	_	-		
Yes	0.53	-0.47, 1.5	0.3	
Age	-0.98	-1.8, -0.12	0.026	
BMI categories		, 0.12		
20–29	_	-		
<20	0.56	-3.6, 4.8	0.8	
>29	-0.33	-1.3, 0.67	0.5	
Depression (PHQ-9 total score)	0.67	-0.39, 1.7	0.2	
PTSD (PCL-5 total)	4.9	3.6, 6.2	<0.001	
Sleep quality disturbance (PSQI total score)	1.4	0.48, 2.3	0.003	
Social support (DRRI-2 social total)	0.24	-0.47, 0.94	0.5	
Combat intensity (DRRI-2 combat total)	0.34	-0.61, 1.3	0.5	
*				

 $<sup>^{\</sup>rm 1}{\rm Beta}$  expressed as 75th vs. 25th percentile for continuous variables.

<sup>&</sup>lt;sup>a</sup>OR, Odds ratio (expressed as 75th vs. 25th percentile for continuous variables).

<sup>&</sup>lt;sup>b</sup>CI, Confidence interval.

 $<sup>^{</sup>c}$ p-value bolded if < 0.05.

 $<sup>^2\</sup>mathrm{CI},$  Confidence Interval.

 $<sup>^{3}</sup>$ p-value bolded if < 0.05.

