Recommendation

Steep Disorders in Military Personnel with Blast Injuries (b) The abstract includes introduction, methods, key results and conclusions. Introduction 2 Blast injuries in military personnel often lead to various complications, including timitus, which may affect mental health and sleep quality. Objectives 3 This study aims to determine the correlation between the presence of timitus and the levels of anxiety, depression, and the quality of sleep in military personnel with blast injuries. Methods 5 This study involved a systematic collection of data from military personnel treated at the University Clinic of Odesa National Medical University from October 2023 to April 2024 (Page 3). Setting 6 (a) The study surveyed 35 military personnel with blast injuries, aged between 22 and 56 years. We included only individuals who had sustained mild Traumatic Brain Injury (TBI) and were in the acute phase of their recovery. Patients who had sleep disorders before their injury were excluded from the study (Page 3). Variables 7 We measured anxiety, depression, and sleep quality. These were assessed using the Hospital Anxiety and Depression, Scale (HADS) and the modified Pittsburgh Sleep Quality Index (PSQD) (Page 3). Data sources/ 8* HADS used to assess the levels of anxiety and depression. Consists of 14 items, 7 for anxiety and 7 for depression, rated on a 4-point scale. PSQJ includes individual items, combined into seven "component" scores that are summed to produce a global score (Page 3). Bias	Title and abstract	1	(a) The title indicates a cohort study. Impact of Tinnitus on Anxiety, Depression, and
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(<u>e</u>) N/a			(<i>d</i>) N/a
			(<u>e)</u> N/a

STROBE Statement—Checklist of items that should be included in reports of *cohort studies*

Item No

1

Results		
Participants	13*	(a) 35 participants were finally included in the study after ensuring they met all
		criteria and after obtaining informed consent.
		(b) Military personnel with different types of injuries were not examined as they were
		identified as not meeting the injury-type criteria based on preliminary screening.
		(c) N/a
Descriptive data	14*	 (a) The participants' ages ranged from 22 to 56 years, with a mean age of 31 years. All participants were male. Injury Type: 14 participants had blast injuries with TBI and without tinnitus, and 5 participants had blast injuries with TBI, barotrauma, and tinnitus. 16 participants were in the control group with blast injuries but no TBI (used as a comparative baseline). Severity of TBI: All participants with TBI had mild TBI, assessed by a Glasgow Coma Scale score of 13-15. No significant previous medical history that met the exclusion criteria, except the noted exclusions (Page 4). (b) N/a
		(c) 7 months
Outcome data	15*	N/a
Main results	16	(<i>a</i>) Group 1: mean HADS anxiety: 11.60. SD: 5.37 range: 3 – 17 p-value = 0.502 mean HADS depression: 15.20. SD: 2.39 range: 13 – 19 p-value = 0.294 mean PSQI: 14.8 SD: 1.30 range: 13 – 16 p-value = 0.421
		Group 2: mean HADS anxiety: 8.00 SD: 3.55 range: 3 – 13 p-value = 0.192 mean HADS depression: 9.07 SD : 3.85 range : 1 – 15 p-value = 0.909 mean PSQI: 11.3 SD: 2.71 range : 5 – 15 p-value = 0.091
		Group 3: mean HADS anxiety: 6.50 SD: 2.92 range: $2 - 12$ p-value = 0.114 mean HADS depression: 6.81 SD: 3.47 range: $0 - 12$ p-value = 0.628 mean PSQI: 6.69 SD: 2.15 range: $3 - 11$ p-value = 0.896 . (Page 4).
		(b) A sleep quality score of 0-7 points was considered satisfactory. Those scoring
		above 7 points were categorized as having poor sleep quality. On the HADS scale
		scores shows 11 were considered significant and indicative of clinical manifectations
		scores above 11 were considered significant and indicative of clinical mannestations
		of adaptation disorder.
		(c) N/a
Other analyses	17	ANOVA:
		HADS Anxiety: F-statistic: 3.92, p-value: 0.030
		HADS Depression: F-statistic: 10.85 p-value: 0.00025
		PSQI: F-statistic: 29.27 p-value: 5.92e-08
		Post-hoc test:
		Group 1 vs Group 2: HADS anxiety: mean Difference = 3.60, p(Tukey) = 0.145
		HADS depression: mean Difference = 6.13, p(Tukey) = 0.006 PSQI: mean Difference
		= 3.44, p(Tukey) = 0.020
		Group 1 vs Group 3 HADS anxiety: mean Difference = 5.10, p(Tukey) = 0.023
		HADS depression: mean Difference = 8.39, p(Tukey) = <0.001 PSQI: mean
		Difference = 8.11 , p(Tukey) = <0.001
		Group 2 vs Group 3: HADS anxiety: mean Difference = 1.50, p (Tukey) = 0.492. HADS depression: mean Difference = 2.26, p (Tukey) = 0.201. PSQI: mean
		· · · ·

		Difference = 4.67, p(Tukey) = <0.001 (page 5)
Discussion		
Key results	18	A statistically significant difference in the level of anxiety was found between Group
		1 and Group 3, where Group 1 exhibited higher levels of anxiety. Significant
		differences in depression levels were observed between Group 1 and both Group 2
		and Group 3. Group 1 displayed higher levels of depression. As for sleep quality, it
		varied significantly among all three groups. Group 1 had the poorest sleep quality
		compared to the other two groups, while the control group exhibited better sleep
		quality when compared to Groups 1 and 2(page 5).
Limitations	19	The main limitation of our study is the relatively small sample size $(n = 35)$ and the
		inclusion of only men in the study group, which may affect the generalizability and
		the accuracy of the estimate (page 5).
Interpretation	20	The presented results confirm that the presence of tinnitus correlates with a significant
		increase in levels of anxiety, depression and sleep quality. Tinnitus can be considered
		an independent factor in worsening sleep quality and adaptation (page 5).
Generalisability	21	The findings are most directly applicable to male military personnel who have
		experienced mild blast injuries. Future research should aim to include populations that
		are more diverse.
Other information		
Funding	22	The publication of this article has not received funding.
Ethics statement		This study involves human participants and was approved by Local Ethics Committee
		in the Odessa National Medical University N 0842/27 dated 14.Mar 2024