

War impact on mental health and wellbeing among Ukrainian and Israeli women: A cross-national comparison

Alexander Reznik, Ph.D.

Regional Alcohol and Drug Abuse Research (RADAR) Center
Ben Gurion University of the Negev, Israel

Valentyna Pavlenko, Ph.D.

Department of Applied Psychology
V.N. Karazin Kharkiv National University, Ukraine

Anton Kurapov, Ph.D.

Department of Experimental and Applied Psychology
Taras Shevchenko National University of Kyiv, Ukraine

Liudmyla Zavatska, Ph.D.

Department of Social Work, Educational and Pedagogical Sciences
T.H. Shevchenko National University “Chernihiv Colehium”, Ukraine

Nataliia Korchakova, Ph.D.

Department of Developmental & Pedagogical Psychology
Rivne State University of Humanities, Ukraine

Iuliia Pavlova, Ph.D.

Department of Theory and Methods of Physical culture
Lviv State University of Physical Culture, Ukraine

Shai-li Romem Porat

Regional Alcohol and Drug Abuse Research (RADAR) Center
Ben Gurion University of the Negev, Israel

Richard Isralowitz, Ph.D.*

Regional Alcohol and Drug Abuse Research (RADAR) Center
Ben Gurion University of the Negev, Israel

This peer-reviewed article has been accepted for publication but not yet copyedited or typeset, and so may be subject to change during the production process. The article is considered published and may be cited using its DOI.

10.1017/gmh.2025.30

This is an Open Access article, distributed under the terms of the Creative Commons Attribution-NonCommercial-NoDerivatives licence (<http://creativecommons.org/licenses/by-nc-nd/4.0/>), which permits non-commercial re-use, distribution, and reproduction in any medium, provided the original work is unaltered and is properly cited. The written permission of Cambridge University Press must be obtained for commercial re-use or in order to create a derivative work.

*Corresponding Author:
Richard Isralowitz, Ph.D.
Regional Alcohol and Drug Abuse Research Center
Ben Gurion University of the Negev
Beer Sheva, Israel
e-mail: Richard@bgu.ac.il

Abstract

This study aims to discern similarities and differences associated with the impact of war on Ukrainian and Israeli women. We hypothesize that country affiliation significantly determines their mental health and psycho-emotional well-being. A total of 1,071 Ukrainian (N=601) and Israeli (N=470) women were surveyed on-line from September to December 2022 in Ukraine and November 2023 to March 2024 in Israel. Valid and reliable survey instruments were used to gather data about the fear of war, depression, loneliness, suicidal ideation, and substance misuse.

Fear of war and depression were higher among Israeli respondents. However, Ukrainian women reported more loneliness, substance use and psycho-emotional deterioration. Respondents from both countries did not show a different level of suicidal ideation. Two-way ANOVA results show fear of war associated with country and depression; and depression linked to country and increased alcohol use, especially among Ukrainian respondents.

Comparative results partially confirm the study hypothesis. The impact of the war on Ukrainian and Israeli women has similar effects; however, differences exist that may be attributed to culture and adaptation to war length. Further research, including uniform data collection and analysis, is needed to determine the impact of war on women as well as their familial and work-related responsibilities that tend to increase during such conditions.

Keywords: women, war, mental health, Ukraine, Israel

Impact Statement

The impact of war and violent conflict on the mental health and well-being of women remains understudied. The Russia–Ukraine and Arab-Israeli wars take place in different social, cultural, psychological, and economic conditions that impact women, their mental health and well-being. Despite ongoing prevention and coping measures associated with war and terrorism, Israeli women report a higher fear of war, depression, and loneliness than from the Ukraine. This finding tends to be the result of data collected during an existential period for Israel and its people confronted with the confluence of factors including attack from multiple countries, international condemnation on many levels, and internal political dissonance. The impact of war on Ukrainian and Israeli women is complex and the similarities and differences identified may be related to culture, perception of war in society, its duration, intensity, internal and external international support as well as other factors. This paper provides useful information about the impact of war on women that has relevance for policy and intervention services.

Introduction

War, terrorism and violence with conditions of death and injury, refuge and relocation, food insecurity, draught, disease and vital service disruption, are more prevalent now than at any time since the end of World War II (International Crisis Group, 2024a, 2024b; WHO, 2023). This situation has become more difficult because of the Russo-Ukraine and Arab Israeli wars with possible escalation beyond territorial or regional boundaries.

Ukraine

On February 24th 2022, Russia invaded Ukraine provoking the most serious military conflict in Central Europe since 1945 and international concern about food production (Leal Filho et al., 2023). For the first time in its recent history, Ukraine is faced with armed conflict on its land accompanied by formidable challenges to address health and social service needs (Kang et al., 2024; Sokan-Adeaga et al., 2023; Vus and Esterlis, 2022). After 18 months, the Office of the United Nations High Commissioner for Human Rights (OHCHR) estimated 37,916 civilian casualties – 11,979 killed and 25,943 injured (OHCHR, 2024). According to the UN Refugee Agency there are nearly 4 million internally displaced people in Ukraine and 6.8 million refugees mostly in Germany, Poland and Russia as of November 2024 (UN Refugee Agency, 2024). In Ukraine, national resilience was initially high due to a surge in unity and international support. However, over time, it has decreased due to the prolonged conflict, war fatigue, and declining trust in the government (Iancu, 2024; Reznik, 2023).

Israel

Since inception as a modern nation in 1948, Israel has been surrounded by hostile forces bent on its destruction. However, overtime, its people have demonstrated preparedness for life under conditions of war and terror attack with resilience, social cohesion and service support (Iancu, 2024). Except for those with exemption to pursue full time religious study, most Israeli men and women have military or national service experience contributing to their ability to cope and/or respond to traumatic events (Ben-Tzur et al., 2021; Bleich et al., 2003). On October 7th (2023), the Islamic Resistance Movement of “Hamas”, a Gaza based political organization, attacked rural settlements (i.e., kibbutzim and moshavim), development towns and a “Nova” music festival in the western region of country resulting in the death of more than 1,100 civilians including infants, children, women, and elderly people, as well as foreign agricultural workers. Among the physically injured and sexually assaulted, hundreds were kidnapped dead or alive and taken to Gaza (Gettleman et al., 2023; Williamson, 2023). Also,

within the first 4 hours of the attack, thousands of missiles were fired from Arab countries to Israel causing death, destruction, fear, stress, and population displacement (Cortellessa, 2023; Goldbart, 2024; Impelli, 2023; Saidel et al., 2024; Statista, 2023).

War and the Health of Women

Considerable research exists on military, political, economic, social and cultural factors associated with the present Russia-Ukraine and Arab-Israel conflicts (Finaud, 2024; Hassan and Mustafa, 2024; Marolov, 2024; Oleinik, 2024; Tuşa, 2023; Tzika, 2024). However, there is scant comparative information about the impact of war on the mental health and well-being of women from these countries. This may be attributed to the complex array of risk factors such as violent deaths, non-fatal physical injuries and disabilities resulting from mines and unexploded ordnance, sexual violence, and unintended pregnancies (Shalak Markson and Nepal, 2023; Ajayi and Ezegebe, 2020; Jina and Thomas, 2013) as well as mental disorders including persistent sadness or feeling of hopelessness, eating and sleeping problems, substance misuse, isolation, and suicidality or suicide attempts (National Institutes of Health, 2024). Also, the lack of uniform data collection and analysis affects the amount of usable information available for informed decision making and service intervention purposes on national and cross-national levels (Deb and Baudais, 2022; Dina Diatta and Berchtold; Jungblut, 2023; Krelinova et al., 2023). Regardless of such limitations, study findings from the Ukraine and Israel show women more than men with increased fear, depression, loneliness, suicidal ideation, PTSD, and substance misuse (Bendavid et al., 2021; Dopelt and Houminer-Klepar, 2024; Feingold et al., 2024; Groweiss et al., 2024; Hasson-Ohayon and Horesh, 2024; Katsoty et al., 2024; Kurapov et al., 2023a, b; Levi-Belz et al., 2024; Palgi et al., 2024; Pavlenko et al., 2023, 2024a, b; Sheather, 2022).

This paper, based on uniform data collection and analysis, describes the demographic characteristics of Ukrainian and Israeli female survey respondents and reports the impact of war on their mental health and psych-emotional well-being. We hypothesize that country affiliation is significantly associated with fear of war, depression, loneliness, suicidal ideation, and substance misuse.

Method

The Qualtrics software platform was used for this online survey that includes three data collection scales. The first scale was the ten item Fear of War Scale (FWS) (Kurapov et al., 2023b). The agreement levels for the statements used are evaluated by a 5-point Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree). Higher total scores correspond with more fear of war. Exploratory factor analysis found the instrument as a two-factor model – both subscales with 5 items. The first subscale describes psychophysiological reactions to fear (e.g., “My heart is beating faster when I think about the war”; and “I have a sleep disorder because I worry the war will get to me”). The second subscale is associated with existential fear reactions (e.g., “I am scared because war costs human lives”; and “I am afraid the war will drag on for a long time”). Other scales used for this study include the nine item Patient Health Questionnaire, (PHQ-9) for measuring the severity of depression (Kroenke et al., 2001). Item 9 of the PHQ-9 (“Thoughts that you would be better off dead or hurting yourself in some way”) was used as a dichotomous (yes/no) indicator of suicidal ideation. Also, the De Jong Gierveld 6-Item Loneliness Scale was used for the survey (Gierveld and Tilburg, 2006).

All instruments were translated from English to Ukrainian and Hebrew and back-translated. Cronbach’s Alpha scores for the scales used, totaled for both languages, are FWS = 0.862/0.805/0.852; PHQ-9 = 0.885/0.830/0.873, and Loneliness Scale = 0.794/0.763/0.764. Survey respondents provided information about their age, marital status, religiosity (secular/non-secular), substance use (i.e., tobacco, alcohol, pain relievers, and sedatives), and psycho-emotional well-being. Statistical analyses were conducted using SPSS, version 29. Stepwise multiple regression, Pearson’s chi-squared test for dichotomous variables, the Mann–Whitney test, t test, one and two-way ANOVA, as well as effect size measure and 95% CI for mean were used for the data analysis.

The study was approved by the Ben Gurion University institutional review board (Approval: 22122022). For Ukrainian participants ethical review and approval were waived for this study due to the anonymous data collection and reporting procedures used. The survey was conducted online and anonymously using the Qualtrics platform. Informed consent was contained in the introductory part of the questionnaire. In case of refusal to participate in the survey (negative response to the invitation to participate), an automatic exit from the online survey system occurred with the inability to continue working. The start of the survey means respondent informed consent.

Participants

A snowball, non-probability sampling technique was used for online data collection. The study cohort included 1,071 Ukrainian (56.1%) and Israeli (43.9%) women, 47.4% secular and 65.9% married/partnered, and most Israeli respondents reported military (86.6%) or national (13.2%) service.

The Ukrainian respondents were from 5 locations (i.e., Kyiv, Kharkov, Lviv, Chernigov and Rivne); and the Israeli participants were from all regions of the country including those from the southern region of the country (36.8%), the densely populated center with Jerusalem and Tel Aviv (42.2%), and from the north (21.0%). Data were collected from September to December 2022 in Ukraine and November 2023 to March 2024 in Israel. Table 1 provides demographic information about the participants.

Table 1. Demographic Data

	Country			<i>p</i> -value ¹
	Total (n=1071)	Ukraine (n=601)	Israel (n=470)	
Age, Mean (SD)	38.3 (13.5)	39.1 (12.3)	37.2 (15.0)	0.022
Median	37.0	38.0	31.0	
Range	(17-79)	(17-76)	(18-79)	
Religiosity, n (%)				
Secular	484 (47.4)	118 (21.1)	366 (79.4)	<0.001
Non-secular	537 (52.6)	442 (78.9)	96 (20.6)	
Marital Status, n (%)				
Married/Partner	672 (65.9)	405 (71.9)	267 (58.6)	<0.001
Other	347 (34.1)	158 (28.1)	189 (41.4)	

¹*p*-value of T-test and Chi-square test

Results

Fear of war

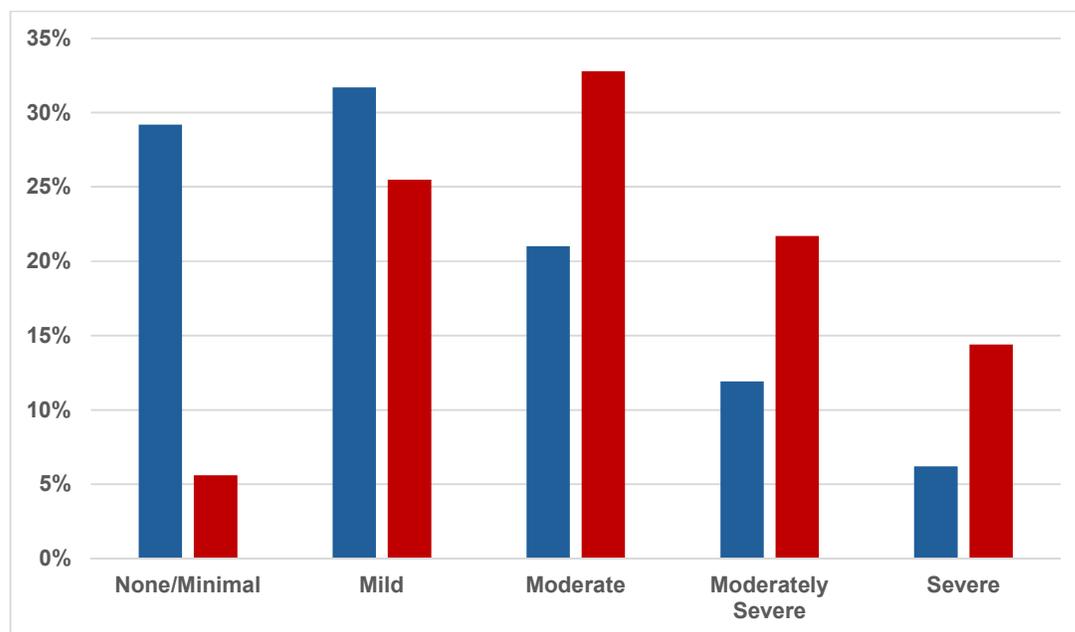
For the two survey samples, the mean value of the FWS was 35.2 (SD = 7.5; 95%CI: 34.8-35.7), with a range of 10 to 50. Mean fear of war values were higher for Israeli than Ukrainian women ($t(957) = 8.062$; $p < .001$; $d = 0.526$). Two-way ANOVA did not show a significant difference in fear scores associated with country, religiosity and marital statuses.

Regarding existential and psychophysiological fear, Israeli respondents had higher levels of both types ($t(959) = 11.336$; $p < .001$; $d = 0.738$ and $t(958) = 3.801$; $p < .001$; $d = 0.248$ respectively).

Depression

The PHQ-9 (i.e., depression severity) mean value was 10.4 (SD=6.1; 95%CI: 10.0-10.8) with a range of 0 to 27. Mean depression values were higher among Israeli respondents ($t(914) = 9.795$; $p < .001$; $d = 0.653$). Two-way ANOVA did not evidence a significant difference in depression scores based on country religiosity, and marital/partner statuses. For interpretation (Kroenke et al., 2001), PHQ-9 scores were divided into 5 groups: 0–4 (no/minimal depression), 5–9 (mild depression), 10–14 (moderate depression), 15–19 (moderately severe depression), and 20–27 (severe depression). Figure 1 provides information on depression levels by country.

Figure 1. Depression level by country



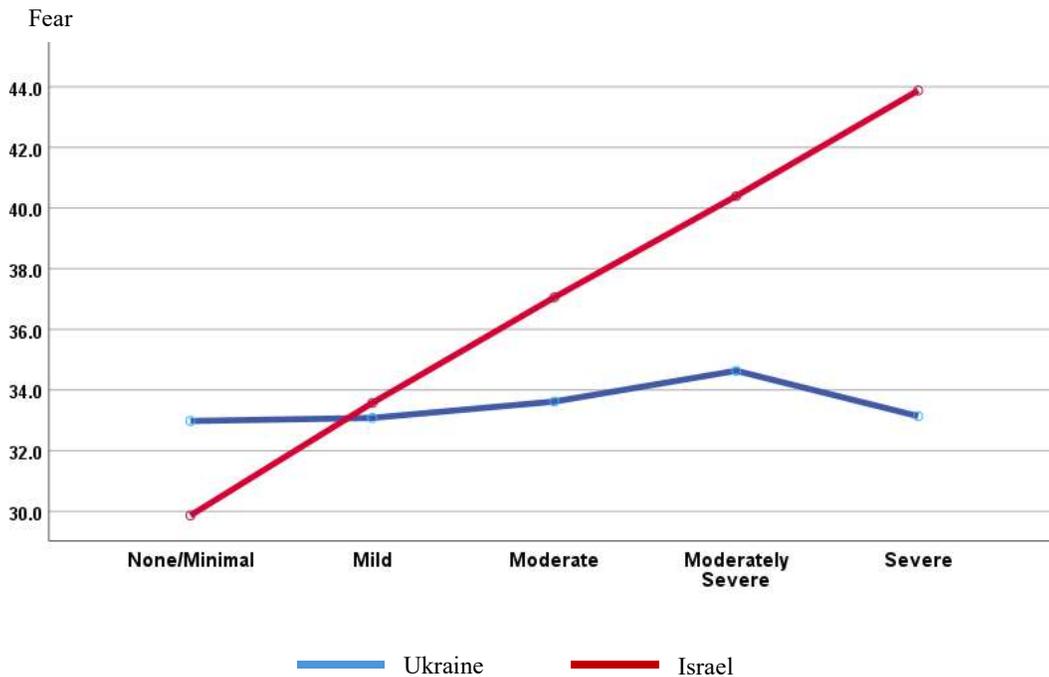
$\chi^2(4, N=916) = 110.524$; $p < .001$

■ Ukraine ■ Israel

Regardless of country, Mann-Whitney test showed secular ($U = 67634.0$; $Z = -7.813$; $p < .001$) and non-married/non-partnered ($U = 77204.5$; $Z = -2.927$; $p = .003$) respondents with higher depression levels. Two-way ANOVA showed significantly different amounts of fear of war

associated with country and depression ($F(4,857)=13.664$; $p<.001$; partial $\eta^2=0.060$) (Figure 2).

Figure 2. Fear of war by country and depression level



Ukrainian and Israeli women did not show a different level of suicidal ideation (17.3% vs. 19.2%; $p=.463$). However, regardless of country, less suicidal ideation was found among those religious and married/partnered: $\chi^2(1, N=878) = 7.039$; $p=.008$; $\phi=0.090$ and $\chi^2(1, N=879) = 4.896$; $p=.027$; $\phi=0.075$.

Loneliness

Israeli women reported a greater amount of emotional loneliness ($U=80591.0$; $Z=-4.895$; $p<.001$); and those from the Ukraine had more social and total loneliness (i.e. emotional and social loneliness combined) ($U=70547.5$; $Z=-7.787$; $p<.001$ and $U=89437.5$; $Z=-2.323$; $p=.020$ respectively). Regardless of the country, emotional loneliness was found more common among secular respondents ($U=80016.0$; $Z=-4.161$; $p<.001$), and social loneliness more prevalent among those non-secular (i.e., religious) ($U=82676.0$; $Z=-3.479$; $p<.001$).

Substance Use

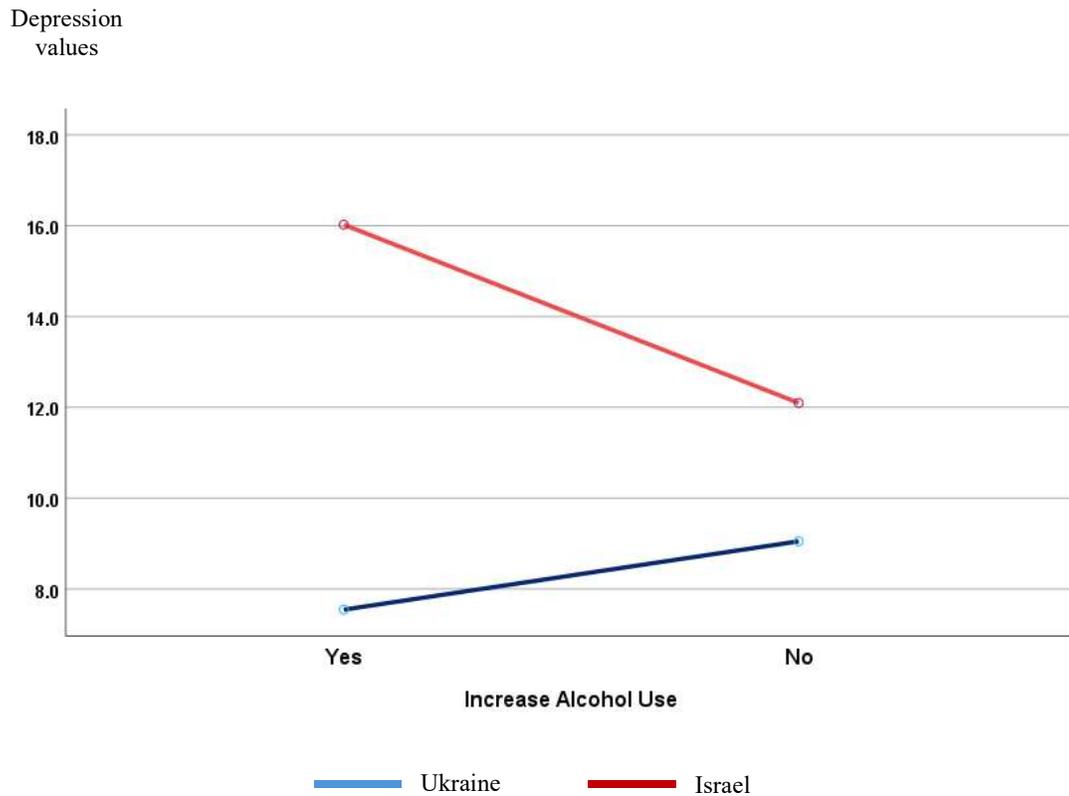
Last 30-day substance use increase of any type due to war was reported by 37.8% of the respondents. The rate of this behavior based on country was significantly different - 42.8% Ukrainian and 31.3% Israeli ($\chi^2(1, N=909) = 12.503$; $p < .001$; $\phi = 0.117$), especially for alcohol (18.4% vs. 11.7%, $p = .006$; $\phi = 0.090$), sedatives (21.8% vs. 8.7%, $p < .001$; $\phi = 0.176$), and binge drinking (10.1% vs. 5.6%, $p = .015$; $\phi = 0.081$). No significant differences were found for tobacco and pain relievers. Two-way ANOVA showed depression associated with country and increased alcohol use interaction ($F(1,838) = 22.784$; $p < .001$; partial $\eta^2 = 0.026$) (Figure 3). Regardless of country, respondents who reported increased alcohol use had higher scores of emotional, social, and total loneliness: $U = 72015.5$; $Z = -5.984$; $p < .001$; $U = 84458.5$; $Z = -2.568$; $p = .010$; and $U = 75025.5$; $Z = -4.896$; $p < .001$ respectively.

Psycho-emotional state

Last month psycho-emotional deterioration was more prevalent among the Ukrainian (94.2%) than Israeli (80.1%) women ($\chi^2(1, N=984) = 44.673$; $p < .001$; $\phi = 0.213$). Two-way ANOVA showed a significant difference in fear of war based on country and psycho-emotional deterioration ($F(1,921) = 13.865$; $p < .001$; partial $\eta^2 = 0.015$). Regardless of country, respondents who reported psycho-emotional deterioration tended to be lonelier ($U = 14018.0$; $Z = -3.191$; $p = .001$).

For all study respondents, stepwise regression analysis showed fear of war associated with country ($\beta = .301$; $p < .001$), depression ($\beta = .236$; $p < .001$), increased substance use ($\beta = -.158$; $p < .001$), psycho-emotional deterioration ($\beta = -.144$; $p < .001$), loneliness ($\beta = .208$; $p < .001$), religiosity ($\beta = .117$; $p = .003$), and marital status ($\beta = -.083$; $p = .011$). Additional independent variables (e.g., age and binge drinking) did not significantly increase the proportion of explained variance (i.e., adjusted $R^2 = 0.249$).

Figure 3. Depression by country and increase alcohol use



Discussion and Conclusion

A purposive sample of Ukrainian and Israeli women were compared during war conditions in terms of their fear of war, depression, loneliness, suicidal ideation, substance use, and psycho-emotional well-being. Findings are consistent with other studies conducted on war in the Ukraine (Kurapov et al., 2023a, b; Pavlenko et al., 2023, 2024a, b); Israel (Kimhi et al., 2020; Solomon, 2020) and elsewhere (Carpiniello, 2023; Conflict Watchlist, 2024; M Ahmed et al., 2024; Our World in Data, 2024; The Peace Research Institute Oslo, 2024). Such results indicate that women, more than men, are at risk of acquiring acute and long-lasting health problems under such conditions (Arcel and Kastrup, 2004; Bogic et al., 2015; Hynes, 2004; Kastrup, 2006; Murthy and Lakshminarayana, 2006).

When compared cross-nationally, findings partially confirm the study hypothesis. The impact of the war on Ukrainian and Israeli women shows many similar effects; however, differences exist that may be attributed to culture, adaptation to war length, and conflict intensity. For example, Ukrainian women reported more substance use, binge drinking and psycho-emotional deterioration, but not depression associated with fear of war that may be an

indication of adaptation to prevailing conditions that have lasted 3 years. Regardless of military or national service and preparedness for war, fear and depression levels were higher among Israeli women. This may be explained by the considerable impact of the Oct 7th invasion from Gaza, coordinated attacks from Lebanon, Syria, Iran, Iraq, Yemen, and the West Bank, cyber insecurity, internal political dissonance, and widespread international condemnation that combined to be a disaster of major proportion for the country (Segell, 2025).

In severe life-threatening conditions, it is difficult to acquire timely and useful information (Institute of Medicine, 2015; Isralowitz, 2017). However, this paper has relevance for informed decision making associated with policy and services that may support the abilities of women to better address personal and familial responsibilities during war conditions as well as their lives going forward. Study findings evidence the impact war has on women of Ukraine; and those of Israel under attack from multiple countries, international condemnation on many levels, and internal political dissonance. Shifting support for countries and people at war, evidenced by current political and government decision making, gives substantive reason for the collection of relevant and useable information overtime and location.

Limitations

The present study has limitations. The study is based on convenience samples obtained using the snowball method without control of factors such as respondent economic and professional status, relations with family and friends, and country of origin status. The cross-sectional design and use of a purposive sample of women limit the ability to generalize study results. Furthermore, the use of an online survey made it possible for only those who had access to the Internet; and some potential survey participants were not able to participate due to communication and power supply failures.

Author Contribution Statement

R.I. and A.R. conceptualized and designed the study. A.K., N.K., J.P. and S.L.P. translated and adapted study instruments on Ukrainian and Hebrew. A.K., N.K., J.P., V.P., L.Z. and S.L.P. conducted data collection and administering study. A.R. and S.L.P. conducted the statistical analyses. R.I. and A.R. wrote the first draft of the manuscript. A.K., N.K., J.P., V.P., L.Z. and

SL.P. reviewed the draft and provided critical feedback. All authors approved the final version of the manuscript.

Financial Support

This research received no specific grant from any funding agency, commercial, or not-for-profit sectors.

Conflict of Interest Statement

The authors declare that they have no known competing financial interest or personal relationships that could have appeared to influence the work reported in this paper.

Ethics Statement

The study was approved by the Ben Gurion University institutional review board (Approval: 22122022). Ethical review and approval were waived for this study by the Ethics Committees of the Lviv State University of Physical Culture, Ukraine, Faculty of Psychology and Natural Sciences of the Rivne State University of Humanities, Ukraine, Faculty of Psychology of the Taras Shevchenko National University of Kyiv, Institute of Psychology and Social Work, T.H. Shevchenko National University “Chernihiv Colehium”, Ukraine, and Faculty of Psychology of the V. N. Karazin Kharkiv National University due to anonymous data collection and reporting procedures used.

Data Availability Statement

All data used in this publication is available upon request.

References

- Ajayi AI and Ezegbe HC (2020) Association between sexual violence and unintended pregnancy among adolescent girls and young women in South Africa. *BMC public health* 20(1), 1370; <https://doi.org/10.1186/s12889-020-09488-6>.
- Arcel LT and Kastrup MC (2004) War, women and health. *NORA-Nordic Journal of Feminist and Gender Research* 12(1), 40-47; <https://doi.org/10.1080/08038740410005758>.
- Bendavid E, Boerma T, Akseer N, Langer A, Malembaka EB, Okiro EA, Wise PH, et al. (2021) The effects of armed conflict on the health of women and children. *The Lancet* 397(10273), 522-532. [https://doi.org/10.1016/S0140-6736\(21\)00131-8](https://doi.org/10.1016/S0140-6736(21)00131-8).
- Ben-Tzur N, Zanbar L and Kaniasty K (2021) Mastery, social support, and sense of community as protective resources against psychological distress among Israelis exposed to prolonged rocket attacks. *Journal of Traumatic Stress* 34(3), 501-511. <https://doi.org/10.1002/jts.22629>.
- Bleich A, Gelkopf M and Solomon Z (2003) Exposure to terrorism, stress-related mental health symptoms, and coping behaviors among a nationally representative sample in Israel. *Jama* 290(5), 612-620. <https://psycnet.apa.org/doi/10.1001/jama.290.5.612>.
- Bogic M, Njoku A and Priebe S (2015) Long-term mental health of war-refugees: a systematic literature review. *BMC international health and human rights* 15, 1-41. <https://doi.org/10.1186/s12914-015-0064-9>.
- Carpiniello B (2023) The mental health costs of armed conflicts—a review of systematic reviews conducted on refugees, asylum-seekers and people living in war zones. *International journal of environmental research and public health* 20(4), 2840. <https://doi.org/10.3390/ijerph20042840>.
- Conflict Watchlist (2024) Conflict Watchlist 2024. Available at <https://acleddata.com/conflict-watchlist-2024/> (accessed 13 December 2024).

Cortellessa E (2023) The Oct. 7 Massacre revealed a new Hamas social media strategy. *Time*. Available at <https://time.com/6330005/the-oct-7-massacre-revealed-a-new-hamas-social-media-strategy/> (accessed 13 December 2024).

Deb S and Baudais V (2022) The Challenges of Data Collection in Conflict-affected Areas: A Case Study in the Liptako-Gourma Region. Stockholm International Peace Research Institute. Sweden. <https://doi.org/10.55163/VWIM3307>.

Dina Diatta I and Berchtold A (2023) Impact of missing information on day-to-day research based on secondary data. *International Journal of Social Research Methodology* 26(6), 759-772. <https://doi.org/10.1080/13645579.2022.2103983>.

Dopelt K and Houminer-Klepar N (2024) War-related stress among Israeli college students following 7 October 2023 terror attack in Israel. *European Journal of Investigation in Health, Psychology and Education* 14(8), 2175-2186. <https://doi.org/10.3390/ejihpe14080145>.

Feingold D, Neria Y and Bitan DT (2024) PTSD, distress and substance use in the aftermath of October 7th, 2023, terror attacks in Southern Israel. *Journal of psychiatric research* 174, 153-158. <https://doi.org/10.1016/j.jpsychires.2024.04.022>.

Finaud M (2024) Comparing the Ukraine and the Gaza wars: the force of law and the law of force. Available at https://viimes.org/wp-content/uploads/2024/06/FINAUD_COMPARING-THE-UKRAINE-AND-THE-GAZA-WARS.pdf (accessed 13 December 2024).

Gettleman J, Sella F and Schwartz A (2023) What we know about sexual violence during the Oct. 7 attacks on Israel. *The New York Times*. Available at <https://www.nytimes.com/2023/12/04/world/middleeast/oct-7-attacks-israel-hamas-sexual-violence.html> (accessed 13 December 2024).

Gierveld JDJ and Tilburg TV (2006) A 6-item scale for overall, emotional, and social loneliness: confirmatory tests on survey data. *Research on Aging*, 28(5), 582–598. <https://doi.org/10.1177/0164027506289723>.

Goldbart M (2024) Sheryl Sandberg fronting Israeli documentary about sexual atrocities committed by Hamas on October 7. *Deadline*. Available at <https://deadline.com/2024/02/sheryl-sandberg-hamas-october-7-doc-sexual-atrocities-meta-1235816457/> (accessed 13 December 2024).

Groweiss Y, Blank C, Hamdan S, Neria Y and Levi-Belz Y (2024) The mental health impact of the October 7th terror attack on Jews and Arabs in Israel: a nationwide prospective study. *Psychiatry research* 337, 115973. <https://doi.org/10.1016/j.psychres.2024.115973>.

Hassan NA and Mustafa S (2024) The impact of contemporary international wars on international security – a case Russia's war on Ukraine and Israel's War on Gaza. *International Journal of Religion* 5(11), 390-340. <https://doi.org/10.61707/vh723w24>.

Hasson-Ohayon I and Horesh D (2024) A unique combination of horror and longing: traumatic grief in post–October 7, 2023, Israel. *Journal of Traumatic Stress* 37(2), 348-351. <https://doi.org/10.1002/jts.23026>.

Iancu S (2024) The psychological dimension of resilience in the Ukraine and Israel conflicts. *Annals–Series on Military Sciences* 16(2), 70-82.

Impelli M (2023) Israeli woman finds out about grandma's death from Hamas video on Facebook. *Newsweek*. Available at <https://www.newsweek.com/israeli-woman-finds-out-about-grandmas-death-hamas-video-facebook-1833153> (accessed 13 December 2024).

Institute of Medicine (IOM) 2015 Enabling rapid and sustainable public health research during disasters: Summary of a joint workshop. Washington, DC: The National Academies Press. Available at [Bookshelf_NBK253866.pdf](#) (accessed 18 February 2025)

International Crisis Group (2024a) The conflicts competing for attention at the United Nations. Available at <https://www.crisisgroup.org/global/conflicts-competing-attention-united-nations> (accessed 13 December 2024).

International Crisis Group (2024b). 10 conflicts to watch in 2024. Available at <https://www.crisisgroup.org/global/10-conflicts-watch-2024> (accessed 13 December 2024).

Isralowitz R (2017) Twenty years of effort and intervention for middle east peace through social work practice in the addictions. *Journal of Social Work Practice in the Addictions* 17(3), 334–337. <https://doi.org/10.1080/1533256X.2017.1337433>.

Jina R and Thomas LS (2013) Health consequences of sexual violence against women. *Best practice & research Clinical obstetrics & gynaecology*, 27(1), 15-26. <https://doi.org/10.1016/j.bpobgyn.2012.08.012>.

Jungblut M (2023) Content Analysis in the Research Field of War Coverage. In: Oehmer-Pedrazzi, F., Kessler, S.H., Humprecht, E., Sommer, K., Castro, L. (eds) Standardisierte

Inhaltsanalyse in der Kommunikationswissenschaft – Standardized Content Analysis in Communication Research. Springer VS, Wiesbaden. https://doi.org/10.1007/978-3-658-36179-2_11.

Kang H, Fischer IC, Esterlis I, Kolyshkina A, Ponomarenko L, Chobanian A, Vus V, et al. (2024) Helping the helpers: mental health challenges of psychosocial support workers during the Russian-Ukrainian war. *Disaster Medicine and Public Health Preparedness* 18, e95. <https://doi.org/10.1017/dmp.2024.68>.

Kastrup MC (2006) Mental health consequences of war: gender specific issues. *World Psychiatry* 5(1), 33.

Katsoty D, Greidinger M, Neria Y, Segev A and Lurie I (2024) A prediction model of PTSD in the Israeli population in the aftermath of October 7th, 2023, terrorist attack and the Israel– Hamas war. *Israel Journal of Health Policy Research*, 13(1), 63. <https://doi.org/10.1101/2024.02.25.24303235>

Kimhi S, Eshel Y and Bonanno GA (2020) Resilience protective and risk factors as prospective predictors of depression and anxiety symptoms following intensive terror attacks in Israel. *Personality and individual differences* 159, 109864. <https://doi.org/10.1016/j.paid.2020.109864>

Krelinova K, Esipova N and Himelfarb I (2023) Air raids, power cuts, and many, many questions - collecting data at a time of war. UN World Data Forum. Available at <https://unstats.un.org/unsd/undataforum/blog/air-raids-power-cuts-and-many-many-questions/> (accessed 16 February 2025).

Kroenke K, Spitzer RL and Williams JB (2001) The PHQ-9: validity of a brief depression severity measure. *Journal of General Internal Medicine* 16(9), 606–613. <https://doi.org/10.1046/j.1525-1497.2001.016009606.x>

Kurapov A, Danyliuk I, Loboda A, Kalaitzaki A, Kowatsch T, Klimash T and Predko V (2023a) Six months into the war: a first-wave study of stress, anxiety, and depression among in Ukraine. *Frontiers in Psychiatry* 14, 1190465. <https://doi.org/10.3389/fpsy.2023.1190465>

Kurapov A, Pavlenko V, Drozdov A, Bezliudna V, Reznik A and Isralowitz R (2023b) Toward an understanding of the Russian-Ukrainian war impact on university students and personnel.

Journal of Loss and Trauma 28(2), 167–174.

<https://doi.org/10.1080/15325024.2022.2084838>

Leal Filho W, Fedoruk M, Paulino Pires Eustachio JH, Barbir J, Lisovska T, Lingos A and Baars C (2023) How the war in Ukraine affects food security. *Foods*, 12(21), 3996.

<https://doi.org/10.3390/foods12213996>.

Levi-Belz Y, Shoval-Zuckerman Y, Blank C, Groweiss Y and Neria Y (2024) The moderating role of belongingness in the contribution of depression to suicide ideation following the October 7, 2023, terrorist attack in Israel: A nationwide prospective study. *Journal of affective disorders* 356, 292-299. <https://doi.org/10.1016/j.jad.2024.04.055>

M Ahmed AB, Yeddi AA, Alrawa SS and Alfadul ES (2024) Anxiety and depression symptoms among a sample of Khartoum civilians during the 2023 Sudan armed conflict: a cross-sectional study. *Plos one* 19(7), e0307648.

<https://doi.org/10.1371/journal.pone.0307648>.

Marolov D (2024) Security dilemma unveiled: a scholarly inquiry into the Palestinian-Israeli and Ukrainian-Russian conflicts through the prism of offensive and defensive realism. *Balkan Social Science Review* 23, 309.

Murthy RS and Lakshminarayana R (2006) Mental health consequences of war: a brief review of research findings. *World psychiatry* 5(1), 25.

National Institute of Health (2015) Disaster Research Response Project, Forum on Medical and Public Health Preparedness for Catastrophic Events; Board on Health Sciences Policy; Institute of Medicine, Washington (DC): National Academies Press (US); 2015. Available at <https://www.ncbi.nlm.nih.gov/books/NBK285425> (accessed 17 February 2025).

Office of the United Nations High Commissioner for Human Rights (OHCHR) (2024). Ukraine: protection of civilians in armed conflict. September 2024 update. Available at https://ukraine.un.org/sites/default/files/2024-10/Ukraine_protection_of_civilians_in_armed_conflict_September_2024.pdf (accessed 13 December 2024).

Oleinik A (2024) Bolivar can't carry double? The impact of the Israel-Hamas war on media coverage of the Russia-Ukraine war. *Atlantic Journal of Communication* 1-20.

<https://doi.org/10.1080/15456870.2024.2362625>.

Our World in Data (2024) Number of armed conflicts, World. Available at <https://ourworldindata.org/grapher/number-of-armed-conflicts> (accessed 13 December 2024).

Palgi Y, Greenblatt-Kimron L, Hoffman Y, Segel-Karpas D, Ben-David B, Shenkman G and Shrira A (2024) PTSD symptoms and subjective traumatic outlook in the Israel-Hamas war: Capturing a broader picture of posttraumatic reactions. *Psychiatry research* 339, 116096. <https://doi.org/10.1016/j.psychres.2024.116096>.

Pavlenko V, Kurapov A, Drozdov A, Korchakova N, Pavlova I, Reznik A and Isralowitz R . (2024a) War Impact on the well-being of Ukrainian female healthcare professionals. *Journal of Loss and Trauma* 29(5), 600-604. <https://doi.org/10.1080/15325024.2023.2280603>

Pavlenko V, Kurapov A, Drozdov A, Korchakova N, Pavlova I, Yehudai M, Reznik A, et al. (2024b) War impact on Ukrainian university women: does location status effect depression and quality of life factors?. *Health Care for Women International* 45(2), 164-168. <https://doi.org/10.1080/07399332.2023.2289428>.

Pavlenko V, Kurapov A, Drozdov A, Korchakova N, Reznik A and Isralowitz R (2023) Ukrainian “help” profession women: war and location status impact on well-being. *Journal of Loss and Trauma* 28(1), 92-95. <https://doi.org/10.1080/15325024.2022.2105482>.

Reznik O (2023) The willingness of Ukrainians to fight for their own country on the eve of the 2022 Russian invasion. *Post-Soviet Affairs* 39(5), 329-346. <https://doi.org/10.1080/1060586X.2023.2221592>

Saidel P, Said S and Peled A (2024) Hamas took more than 200 hostages from Israel. Here’s what we know. *The Wall Street Journal*. Available at <https://www.wsj.com/world/middle-east/hamas-hostages-israel-gaza-41432124> (accessed 13 December 2024).

Segell G (2025) Israel vs. Hamas Expands to Eight Fronts. In *Exploring the Implications of Local and Regional Conflicts* (pp. 1-26). IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3693-2877-4.ch001>.

Shalak M, Markson F and Nepal M (2023) Gender-based violence and women reproductive health in war affected area. *Korean journal of family medicine*, 45(1), 12-17. <https://doi.org/10.4082/kjfm.23.0169>.

Sheather J (2022) As Russian troops cross into Ukraine, we need to remind ourselves of the impact of war on health. *BMJ* 376, o499. <https://doi.org/10.1136/bmj.o499>.

Sokan-Adeaga AA, Sokan-Adeaga MA, Esan DT, Sokan-Adeaga ED, Oparaji AN, Aledoh M, Balogun FA, et al. (2023) Review of the Russia-Ukraine war and its impact on public health. *Iranian Journal of War and Public Health* 15(3), 295-303.

<https://doi.org/10.58209/ijwph.15.3.295>.

Solomon Z (2020) From the frontline to the Homefront: the experience of Israeli veterans. *Frontiers in Psychiatry* 11, 589391. <https://doi.org/10.3389/fpsy.2020.589391>.

Statista (2024) Number of Palestinian and Israeli fatalities and injuries caused by the war between Hamas and Israel since October 7, 2023. Available at [Israel & Palestinian territories: number of fatalities & injuries caused by the Israel & Hamas war 2023 | Statista](#) (accessed 13 December 2024).

The Peace Research Institute Oslo (2024) New data shows record number of armed conflicts. Available at <https://www.prio.org/news/3532> (accessed 13 December 2024).

The UN Refugee Agency (2024) Ukraine emergency. Available at [Ukraine Refugee Crisis: Aid, Statistics and News | USA for UNHCR](#) (accessed 13 December 2024).

Tuşa E (2023) The influence of the Israeli-Palestinian war (2023) and Russia in disrupting the silk road—a sociological analysis. *Revista Română de Studii Eurasiatice*, 19(1-2), 285-296.

Tzika S (2024) A comparative analysis of media framing: the Israel-Hamas and the Russia-Ukraine wars. Available at <https://ikee.lib.auth.gr/record/358761/files/GRI-2024-45688.pdf> (accessed 13 December 2024).

Vus V and Esterlis I (2022) Support of the population within the Russian-Ukrainian war: Insider's perspective. *Chronic Stress* 6, 24705470221101884. <https://doi.org/10.1177/24705470221101884>.

Williamson L (2023) Israel Gaza: Hamas raped and mutilated women on 7 October, BBC hears. *BBC News*. Available at <https://www.bbc.com/news/world-middle-east-67629181> (accessed 13 December 2024).

WHO (2023) Conflict and crisis reveal the tip of the iceberg the world's vulnerable face in accessing their right to health. Available at <https://www.who.int/news-room/commentaries/detail/conflict-and-crisis-reveal-the-tip-of-the-iceberg-the-world-s-vulnerable-face-in-accessing-their-right-to-health> (accessed 13 December 2024).