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Article Sub-Title					
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	Nature (This will be the copyright line in the final PDF)				
Journal Name	International Journa	l for the Advancement of Counselling			
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Schedule	Received Revised Accepted	4 Jun 2024
Abstract	Ukrainian adults after acc pandemic and six years in mostly female sample (93 $(SD = 6.3)$), and resilience multiple regression found well-being measure after $(SD = 6.3)$	dy investigated resilience and stress when predicting well-being in a sample of ounting for the presence of children in the home during the coronavirus to the Anti-Terrorism Operation. The total sample $(N=80)$ showed that the .8%, $n=75$) reported scores on stress that fell in the average range, $M=18.8$ scores in the low resilience range, $M=2.8$ ($SD=.70$). Results of the standard that perceived stress and resilience accounted for 48% of the variance of the controlling for children in the home. The implications of the study support silience promoting resources and programs to improve Ukrainians' well-being.
Keywords (separated by '-')	Ukraine - Resilience - Str	ess - Well-being - Parenting
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International Journal for the Advancement of Counselling https://doi.org/10.1007/s10447-024-09571-2

ORIGINAL ARTICLE



- 2 Resilience, Stress, and Well-Being in Adults With
- 3 and Without Children in the Home in Ukraine
- 4 Michell L. Temple^{1,3} Olya Zaporozhets¹ · James Sells¹ · Olga Lozova²
- 5 Accepted: 4 June 2024
- 6 © The Author(s), under exclusive licence to Springer Science+Business Media, LLC, part of Springer Nature
- 7 2024

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- 8 Abstract AQ1
- 9 The pilot quantitative study investigated resilience and stress when predicting well-AQ2
- being in a sample of Ukrainian adults after accounting for the presence of children
- in the home during the coronavirus pandemic and six years into the Anti-Terrorism
- Operation. The total sample (N=80) showed that the mostly female sample (93.8%, AQ3)
- 13 n=75) reported scores on stress that fell in the average range, M=18.8 (SD=6.3),
- and resilience scores in the low resilience range, M=2.8 (SD=.70). Results of the AQ4
- standard multiple regression found that perceived stress and resilience accounted for
- 48% of the variance of the well-being measure after controlling for children in the
- home. The implications of the study support stress management and resilience pro-AQ5
- moting resources and programs to improve Ukrainians' well-being.
- 19 **Keywords** Ukraine · Resilience · Stress · Well-being · Parenting
- The health of a country's citizens impacts society at multiple levels (Funk et al., AQ8 AQ9
- 21 2003). The World Health Organization (WHO; 2020) defines health as "a state of
- 22 physical, mental and social well-being and not merely the absence of disease or
- 23 infirmity" (p. 1). According to evidence-based practices in healthcare, the defini-
- 24 tion suggests that a holistic approach to organizing human health services inte-
- 25 grates medical and well-being models (Funk et al., 2003; World Bank Group, 2017).
- 26 The framework considers protective and risk factors at the individual, social, and
- 27 environmental levels that affect individual health (Conyne, 2015; WHO, 2019).
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Protective factors represent characteristics that decrease the likelihood of maladaptive functioning. Risk factors describe elements born from the socioecological context that thwart persons' ability to thrive within their lived spaces. International studies operationalizing WHO's health framework suggest that an essential factor includes subjective well-being, both hedonic and eudaimonic characteristics, referring to how positively or negatively people appraise their own lives cognitively, affectively, and functionally (Diener et al., 2017; Huppert & So, 2013).

Subjective well-being correlates with people's physical and mental health as both a risk or protective factor depending upon environmental stressors, availability of goods and resources, social connectedness, and capacity to function meaningfully within a given culture (Diener et al., 2017; WHO, 2019). Huppert and So (2013), in the seminal study defining and measuring well-being as synonymous with flourishing—a high level of mental well-being—showed that emotional stability, vitality, resilience, optimism, happiness/positive emotions, and self-esteem were factors that explained 50% or more of the variance of well-being. In comparing the well-being of 22 European countries, Huppert and So (2013) found that countries in Northern Europe, such as Denmark and Switzerland, ranked high on well-being indicators of emotional stability, meaning, positive emotion, and resilience. In contrast, countries in Eastern Europe, like Ukraine and Bulgaria, ranked lowest in positive emotions and resilience. They also highlighted unexplainable differences within and across countries of equal or greater perceptions of emotional stability, engagement, selfesteem, and optimism. For citizens of Northern and Eastern European countries, the opportunities to experience subjective well-being differ significantly. The most notable difference is that Eastern Europe was ruled by the former Union of Soviet Socialist Republics (USSR; Magosci, 2010).

Interestingly, Huppert and So (2013) acknowledged that this difference was most apparent societally through the distribution of wealth, the development of social and healthcare systems, and the degrees to which citizens expressed governmental trust. Huppert and So (2013) suggested that the variability revealed in their initial study should encourage future research about the spectrum of well-being. As such, this study aimed to investigate the relationship between resilience, functioning under stressful circumstances, and well-being in adults in Ukraine.

One way to further explore a phenomenon is to investigate the relationship of indicators that explain larger portions of the variance directly within populations of interest (Heppner et al., 2016). Resilience contributed significantly to the explainable variance in Huppert and So's (2013) study; however, they did not have a variable to measure participants' level of stress. Considering the history of countries in Eastern Europe, stress appears to be a relevant construct to understanding well-being. Stress, the body's response to any demand (McCarffery, 2011), has also been conceptualized as a complex, concerted biosocial-psychological interplay of emotional arousal and regulation (Lazarus, 1999). Distinguishing people's responses to stressors as adaptive and maladaptive offers insight into subjective well-being and resilience. It also supports contemporary diagnostic criteria of psychological distress concerning presenting symptoms in counseling.

The current study aimed to predict the subjective well-being of Ukrainian adults with and without children in the home during the fall of 2020, six months into the



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coronavirus pandemic and six years post the start of the annexation of Crimea and subsequent eruption of the Anti-Terrorism Operation (ATO), a violent conflict with the Russian Federation (Russia), which began in Eastern Ukraine in 2014 (Hamilton, 2019). Global research indicated that people who can positively adapt to adversity and trauma while navigating challenges to daily living, including life-threatening events in the places where they are born, grow, live, and work, can experience health (Committee on Educating Health Professionals to Address the Social Determinants of Health, 2016; Masten, 2015; WHO, 2019). The study considered the three decades of resilience research, which has shown that human beings' perceptions of life stressors and their ability to manage them play a critical role in their susceptibility to ill-being (Kimhi, 2015; Bonanno & Mancini, 2011; Catherall, 2004; Delahanty, 2008; DeCarvalho & Whealin, 2012; Eshel et al. Galatzer-Levy et al., 2018; Masten, 2015; McCarffery, 2011; Ozbay et al., 2007; Southwick et al., 2016; Troy & Mauss, 2011; Walsh, 2016; Wu et al., 2013). We operationalized stress and resilience on a spectrum to predict the well-being of Ukrainians based on their perceptions of stressors and their capacity to adapt positively. The literature review outlined below provided the cultural context of the study.

Describing the Health of Ukrainians

Ukrainians, like citizens of other former Soviet countries, experience poorer well-92 being, evidenced by high rates of physical, mental, and behavioral health problems 93 (Burlaka et al., 2017; Global Mental Health, 2020; Rechel et al., 2014; WHO, 2006; 94 World Bank Group, 2017; De-Identified, 2014). For example, the rise of chronic 95 medical conditions in Ukraine has exceeded other European countries for more than 96 15 years (Global Mental Health, 2020; WHO, 2019). In a 2005 report, the World 97 Health Organization (2006) estimated that an average of eight years (12%) of a 98 Ukrainian life, which is 14 less for males and eight years less for females than other 99 European nations, was spent with illness and disability. The main causes of death 100 and disability included circulatory system disorders and cancer. A review of demo-101 graphic trends in Ukraine suggested that the high mortality rates among men have 102 been attributed to alcohol abuse, smoking, and stress (Romaniuk & Gladun, 2015). 103 Additionally, the World Bank Group (2017) reported close to one-third of the popu-104 lace had experienced a mental health disorder in their lifetime in 2015, with post-105 traumatic stress disorder being most common among men at 5% and depression and 106 anxiety in women at 7% and 3%, respectively. 107

A recent analysis of the prevalence of mental health disorders in Ukraine showed similarities to other countries in the Eastern European region except for major depressive disorder, 3.4% versus 2.9%, and women and men differ at estimated rates of 3.9% and 2.7%, respectively (Global Mental Health, 2020). The report highlighted the prevalence of alcohol use disorders in Ukraine at 6% compared to 1.5% globally, with men experiencing the condition more than women, 11.5% and 1.4%. The estimated average death rate by suicide is also higher in Ukraine when compared to other countries in Eastern Europe and global statistics (Global Mental Health, 2020). Estimated deaths by suicide for men and women indicate that per



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100,000 population, 56.7 men and 8.4 women die annually versus the total deaths of 29.6 in Eastern Europe and 10.4 worldwide (Global Mental Health, 2020).

Subjective Well-Being in Ukraine

Subjective well-being in countries like Ukraine included material living conditions characterized by goods and resources and quality of life indicated by health. The sociocultural risks of family employment status, income, and perceived financial distress were also supported by Libanova et al. (2020), which were identified as more severe by women in Ukraine in 2017. Interestingly, the *Assessment of Quality of Life in Ukraine on the Basis of Subjective Indicators of Well-being* (Libanova et al., 2020) found that approximately 22% of women were satisfied with their standing in society compared to 32% of men satisfied with their lives in general. Libanova et al. highlighted that these findings were favorable in relationship to personal happiness and health, not the state of the country overall in comparison to previous years. However, since 2010, Ukrainians have reported less hope and optimism, emotions associated with human resilience, across age groups and the two genders, though more significantly in adults 54 and older. The subjective well-being of Ukrainians has been in flux since its independence, showing discrepancies between perceived positive emotions and objective measures like life expectancy and physical health.

Life Stressors Woven into Ukrainian Society

Life stressors within the context of an anti-terrorist conflict require what Al-Krenawi et al. (2011) describe as a deeper understanding of political ideology's effects on the intensity of beliefs. Political ideology serves as a lens through which people understand and interpret political events and, therefore, affects the psychological reaction to those events (Kimhi et al., 2015b; Al-Krenawi et al., 2011). The citizens of Ukraine are deeply influenced by their history of foreign occupation.

Since its independence in 1991, the young democracy has faced considerable political, economic, and cultural transformations (Korostenlina, 2013). The nation's current growing pains have been linked to the citizens' divergent perspectives of the paternalistic and patriarchal power systems that were embedded into the country's society while under the Russian Empire during the 1900th century, then the Soviet Union, now the Russian Federation (Korostenlina, 2013; Magocsi, 2010; Romaniuk & Gladun, 2015; Zakhozha et al., 2020). The country also suffered from corruption after its independence, which exacerbated the declining economy and led to an economic crisis (Footman et al., 2013; Magocsi, 2010). The crisis divided the country's eastern and western regions. The country's experts who participated in Korostenlina's (2013) study characterized present-day Ukrainian society as one with system-based violence that deprived people of their basic human needs, nurtured paternalistic and patriarchal systems, and divided by the intergroup comparisons of ethnic groups. Sources indicated that an increased disparity in the distribution of economic resources intensified the public health crises with higher rates of transmission of



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HIV and fluctuation of birth rates (Churakova et al., 2017; Ramachandran et al., 2019; WHO, 2006; Zaller et al., 2015).

Presently, millions of Ukrainians are displaced within the country, uprooted, and forcibly removed from their homes to escape the warzone or engage in combat (Hamilton, 2019; Office of the High Commissioner, 2019; Roberts et al., 2017). Since the ATO began in 2014, persons who were internally displaced (IDPs) and veterans experienced mental disorders at proportionally higher rates compared to the lifetime rates of the general population (e.g., depression, 22% versus 15% anxiety, 18% versus 15%, posttraumatic stress disorder, 32% versus 8%, [World Bank Group, 2017]). At the time of this study, Ukrainians had lived with the unrelenting stress of war and trauma in Eastern Ukraine for six years, which could negatively influence their resilience and well-being.

Resiliency and Ukrainian Adults

Resilience is defined from multiple perspectives and across the human lifespan. The common threads to understanding psychosocial resilience include the following: (a) people have situations in their lives where their sense of safety, control, belonging, and worth are violated deeply; (b) not all people decompensate into psychopathology; and (c) most adults can positively adapt from such situations (Southwick et al., 2014; Walsh, 2016). Research on resilience in families and children has evidenced that family well-being, parental quality, and child resilience are linked to social support. Comprehensive literature reviews by Wu et al. (2013) and Liu et al. (2018) demonstrated that the physical and social environments created by parents and other adult caregivers influenced child development and resilience. The reviews concluded that parents and adult caregivers that offer children love, well-being, and manageable and age-appropriate stress levels support the development of resilience behaviors. Moreover, other researchers contend that family networks have shown beneficial, especially in war times, because social support helps adults and children exhibit appropriate developmental needs (Kimhi et al., 2015; Al-Krenawi et al., 2011). Adults and caregivers often modeled resilient behaviors for their children and those under their care.

Characteristics of resilience are present in parents in Ukraine and are influenced by indicators of subjective well-being. Mothers and fathers in Ukraine are known to praise their children regardless of their level of education and financial status (Burlaka et al., 2019). Women and mothers, as the primary caregivers, serve as the facilitators of healthy family communication such that praise, listening, collaborative discussions, problem-solving, and empathy are significantly related to children's mental health (Burlaka et al., 2017; Churakova et al., 2017). However, Burlaka et al. (2017) found that the parenting quality of families, whether two-parent or single mothers, was influenced by economic status, mental health, educational level of parents, and less frequent substance use, whereas mothers who are single, lower social class and less educated lost their parental rights most often due to substance use disorders and violence from 1999–2008 (Lisogor, & Sarioglo, 2009). Moreover, Churakova et al. (2017) noted the role of spirituality in the lives of Ukrainian mothers influenced their coping style and appraisal of life stressors. Churakova et al. (2017) indicated



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that the 94% female sample showed a significant relationship between avoidance coping strategies, impulsive and externalizing behaviors, and increased alcohol consumption risk, while no significant relationship was found between alcohol use and adaptive coping style of help-seeking, self-control, and applying problem-solving skills. Mothers' coping style was further correlated with children's behavior by Burlaka et al. (2019). The study found that children who exhibited externalizing behaviors were linked to mothers who sought social support and other outward coping behaviors. A significant negative relationship was noted between children who exhibited aggressive and defiant behaviors and mothers who utilized positive reappraisal. Burlaka et al. (2019) suggested that the finding may reflect such mothers' attempts to regulate emotions related to stressful situations. Zakhozha et al. (2020) investigated adverse childhood experiences, generally in college students. They found that emotional and physical neglect were reported at higher percentages, 28% and 25%, than emotional and physical abuse, 12% and 11%, associated with household dysfunction, meaning living with a problem drinker, someone with a mental health disorder, depression or suicide, or witnessing violence against their mothers.

This body of literature suggested that parents and caregivers in Ukraine are attempting to model positive stress adaption for children through healthy communication, spiritual coping, and positive reappraisal. However, the studies also infer that adults caring for children could be experiencing poor mental health, which might explain the consistent findings of child emotional and physical neglect. The literature appeared to affirm Yakushko's (2005) concern that adults with children in the home may have difficulty "bouncing back" from life stressors and traumatic experiences, which is the basic definition of resilience (Smith et al., 2008). Unfortunately, the high incidents of psychological distress do not correspond with citizen's utilization of mental and behavioral health services.

Mental Health Services in Ukraine

Mental health services pre- and post-Soviet Union remained dominated by psychiatry and followed a path that resulted in subsequent coercion or harm for political purposes (Voren, 2013). For example, Ukrainians who advocated against communism were falsely diagnosed with psychiatric conditions, which limited their access to gainful employment and livable housing. The abuse of psychiatry also led to millions of involuntary, indefinite hospitalizations of Ukrainians as early as the 1930s, continuing through the country's independence in 1991 (Voren, 2013). Unsurprisingly, many Ukrainians are suspicious of seeking formal mental health care (Bowen, 2011), which can be evidenced by the observation of a 74% treatment gap between internally displaced persons and the general populace (Roberts et al., 2017).

Civilian Ukrainians often seek mental health support from churches, Protestant and Orthodox, which are highly respected (Bowen, 2011). Marriage and family counseling services are usually offered by clergy, who may have received at least one counseling course during seminary, but no practical training such as an internship (Bowen, 2011). Additionally, chaplains support the military-connected



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members and their families, wives, and children. Kalenychenko (2016) stated the new corps of military chaplains divides functions based on population. One such group is purposed to establish communication between military members and their families, which may include spiritual care after losing a husband to war. Others may provide social services and pastoral care by working with military families, hosting mental health training, supporting the reintegration of discharged service members, and presiding over social and cultural events (Kalenychenko, 2016). Overall, studies on the efficacy of the centralized mental health services in Ukraine have shown that current services fail to meet the psychosocial and behavioral health support needs of its citizens (Kreimeyer, 2019; Ramachandran et al., 2019; Roberts et al., 2017; World Bank Group, 2017; Yankovskyy, 2013; De-identified, 2014). However, Ukrainian leadership has written legislation to improve the country's health system.

Recent reforms to the mental health care system, possibly perpetuated by the conflict in the east, were due to the signing of the Concept of Mental Health Development in Ukraine (CMHDU), which focuses on updating the system and aligning practices with international standards and guidelines of protection (Global Mental Health, 2020). The CMHDU represents the policy and a plan; however, the plan to reform the mental health system has not been approved. The policy includes integrative care, mental and primary health care services in one location, the establishment of community-based and outpatient mental health services, crisis counseling, and the increased utilization of psychosocial interventions through nongovernmental agencies (Global Mental Health, 2020). Little evidence suggests that the CMHDU policy and plan intentionally addresses the needs of parents. Burlaka, Serduik, Nickelsen, Tkach, and Khvorova, as cited in Burlaka et al., (2019, p. 1291), pointedly state that Ukraine is still in the process of developing sustainable services for children and families.

The Current Study

This pilot study employed newly validated psychological measures that quantify resilience, stress, and well-being within Ukraine, a country that has limited mental health resources for its citizens. The reviewed research suggests that Ukrainian adults' well-being is influenced by their perceived stress due to contextual risk factors such as aggressive foreign occupation, socioeconomic disparities, and a high prevalence of mental health disorders (Global Mental Health, 2020; World Health Group, 2017). Sources demonstrate that these risk factors, coupled with the responsibility of caring for a child, may exacerbate adults' perceived stress and promote their utilization of ineffective coping mechanisms (Burlaka et al., 2019; Burlaka et al., 2014; Churakova et al., 2017; Zakhozha et al., 2020). In light of the contextual risk factors, Huppert and So's (2013) finding that resilience contributed meaningfully to their measure of well-being in European countries may offer insight into how Ukrainians could be managing the unrelenting life stressors despite their significantly lower ranking on the measure compared to other countries, 17 out of 22. Resilience has been shown to be a universal protective factor cross-culturally and throughout the human lifespan, reducing the intensity and duration of mental health



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disorders (Galatzer-Levy, 2018; Masten, 2015). Since resilience embeds itself into the ideas, traditions, and practices for confronting the challenges that arise during the act of living (Masten, 2015), the study sought to contextualize the subjective well-being in Ukraine as a process of navigating life stressors by employing resilience. The research question tested the null hypotheses:

Do resilience and stress significantly predict well-being among Ukrainian adults after controlling for children in the home?

The results of the pilot study intended to support nonprofit organizations, medical professionals, and mental health practitioners' ability to provide holistic mental health care.

Method

The present nonexperimental pilot study investigated the relationship of resilience and stress in predicting well-being of Ukrainian adults with and without chil-dren in the home. The study used archival survey data from three measures from the validation study of the Socioecological Assessment on Individual and Family Resilience Questionnaire (SAIFR) in Ukraine (De-identified., 2020). The valida-tion study translated and validated eight scales in the Ukrainian language for use in a strength-based assessment for individuals and families (De-identified al., 2020). The informed consent notified respondents that the validation study results would be used in future research, counseling practice, and to integrate a strength-based approach in a post-graduate education program.

Participants and Procedures

Participants were Ukrainian-speaking adults, men, and women, who resided in the country and completed the SAIFR from September 2020 through October 2020. One hundred twenty-seven (N=127) Ukrainians completed the SAIFR. These participants were able to read at an equivalent level to the United States' fifth-grade reading level.

The inclusion criteria for the surveys included in the study were as follows: (1) a response to the sociodemographic variable of number of children in the home and (2) completion of the three scales, WHO-5 Well-being Index (Bech, 2012), the Perceived Stress Scale (Cohen et al., 1983), and the Brief Resilience Scale (Smith et al., 2008). The study aggregated these sociodemographic descriptors from the SAIFR: age, gender, location, language spoken in the home, level of education, economic status (employment and monthly income), military status, couple and family demographics (marital status, years in current relationship, number of people in the home, family composition, relation to family members living in the home), and reported exposure to trauma and adversity using 14 questions from the Life Events Checklist (Weathers et al., 2013).



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G*Power 3 (Faul et al., 2009) was used to conduct a priori to compute the required sample size for a linear regression fixed model with R^2 deviation from zero. The inputs were conventional power of $1-\beta=0.80$ with $\alpha=0.05$ to detect a medium effect size for three predictors (Crowson, 2020). G*Power calculated a total sample size of N=77 with a critical F=2.730 for the covariate and two predictors. Achieved power based on actual sample size was reported in the "Results" section.

Method

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Based on the inclusion criteria, 80 participants (N=80) from the SAIFR were 331 included in this pilot study. Table 1 describes the participants. The majority of the 332 female sample, 93.8% (n=75), ranged between the ages of 17 and 59 years old, 333 M=31 (SD=10.7), and reported the length of their current relationship short as one 334 month to as long as 456 months, M = 120 months or 10 years (SD = 109.4 months or 335 9.1 years). Of the total sample, 62.5% (n=50) indicated their family type as nuclear, 336 and 26.6% (n=21) labeled their families multi-generational. Twenty-one percent of 337 the sample (n=17) identified as military-connected either by self or spouse current 338 or previous service. The sample was relatively split evenly by the presence of chil-339 dren in the home, no = 51.2% (n = 41) and yes = 48.8% (n = 39). The sample largely 340 represents citizens in the Western Region of Ukraine, 87.5% (n=70). 341

Additionally, participants reported potentially adverse and traumatic events using the Life-Events Checklist (Weathers et al., 2013). Participants selected the events they had experienced or witnessed in their lives. Participants reported severe human suffering, 46.3% (n=37), other stressful experiences, 27.5% (n=22), and life-threatening illness or injury, 17.5% (n=14) at the highest rates. Eight participants (10%) reported not having any significant stressful events. Participants did not report experiences with exposure to a toxic substance and captivity.

Measures

The archival data from the SAIFR was secured after approval by the Human Sub-350 jects Review at a southeastern university in the United States. De-identified. (2020) AQ13 351 employed convenience sampling to obtain a sample representative of the general 352 populace. Measures were validated using principal component and internal consist-353 ency analyses. The initial validation study's results are listed with each measure's 354 descriptions. Additionally, following Koo and Li (2017), a two-way mixed effects AQ14 355 model was used to report the Cronbach alphas and confidence intervals for the 356 measures based on the current sample. 357

WHO-5 Well-being Index

The WHO-5 Wellness Index ([WHO-5], Bech,1998) was developed in 1998 as a short, self-report measure to evaluate mental well-being, e.g., disease anonymous (Topp et al., 2015). The WHO includes statements such as "I have felt cheerful and in good spirits" and "I have felt active and vigorous." Respondents rate five



 Table 1
 Sociodemographic

 characteristics of participants

Sociodemographic	Total Sample	
	\overline{N}	%
Gender		
Female	75	93.8
Male	5	6.3
Relationship status		
Single	29	36.3
Married	30	37.5
Living together	12	15.0
Divorced	5	6.3
Remarried	4	5.0
Number of children in the home		
No or one child	57	71.3
Two or more children	23	28.7
Children in the home) '
Yes	39	48.8
No	41	51.2
Number of adults in the home		
3 or fewer adults	66	82.5
4 or more adults	14	17.5
Military-connection		
Yes	17	21.3
No	63	78.7
Region of the country		
West	70	87.5
East	10	12.5
Language(s) spoken in the home		
Ukrainian	34	42.5
Russian	26	32.5
Both Ukrainian and Russian	15	18.8
Both and other languages	5	6.3
Employment status		
Full-time	41	51.2
Part-time	20	25.0
Unemployed	19	23.8
Education status		
General	10	12.5
Specialist, Technical, College	5	6.3
Bachelors	22	27.5
Masters	30	37.5
Doctorate	13	16.3
Monthly income in Hryvnia*		
0–2000	16	20.0
2001–4000	4	5.0



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Table 1 (continued)

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Sociodemographic	Total Sample		
	\overline{N}	%	
4001–8000	15	18.8	
8001–12,000	14	17.5	
120,001–16,000	10	12.5	
16,001–20,000	9	11.3	
20,001–25,000	4	5.0	
25,001–50,000	4	5.0	
Greater than 50,001	2	2.5	
Missing	2	2.5	

N=80. Standard deviations are presented in parentheses. Missing data was provided to account for 100% of cases. *In 2020, the average exchange rate for hryvnia to the US dollar was 0.34 for \$1.00 (Exchange-Rates.org, 2024)

statements on a scale of 0 (no time) to 5 (all the time). The score is calculated by summing all questions and then multiplying by 4 to obtain the final score. Scores closer to zero are interpreted as the worst possible well-being imaginable, and scores closer to 100 suggest the best possible well-being imaginable (Topp et al., 2015). Persons whose raw score on the WHO equals less than 13 would benefit from further assessment of depressive symptoms because this score suggests poor well-being (Dadfar et al., 2018). Index validity for the WHO-5 related to psychiatry and clinical psychometrics produced sensitivity values of 0.93 and 0.77 with specificity values of 0.65 and 0.89, respectively, using a cut-off score of less than 50 (Topp et al., 2015). Sishcka et al. (2020) confirmed Topp et al.'s (2105) assessment of the psychometric soundness of the WHO-5; however, the researchers' findings showed the importance of using a latent variable model when comparing subjective well-being cross-culturally to account for probable variations in the WHO-5 scores. WHO-5 translated into Ukrainian produced a Cronbach $\alpha = 0.80$ (De-identified et al., 2020). The internal consistency results on the study sample matched those from the validation study with 95% CI (0.72 to 0.86).

Perceived Stress Scale-10

The Perceived Stress Scale-10 ([PSS-10]; Cohen et al., 1983) is a 10-item self-report designed to tap into how unpredictable, uncontrollable, and overloaded respondents find their lives within the last month. Sample items include: "How often have you felt that you were unable to control the important things in your life?" "How often have you felt confident about your ability to handle your personal problems?" "How often have you felt that things were going your way? Respondents use a 4-point Likert-type scale, where 0=never to 4=very often. Scores range from 0 to 40, with higher scores indicating higher levels of stress. The 10-item scale also demonstrated consistent reliability across multiple cultures for research purposes (Lee, 2012). Taylor (2015) analyzed the psychometric properties of the PSS-10 using item response



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theory, which resulted in internal consistency of α =0.76, and a multidimensional model of two subscales, the perceived helplessness scale ([PHS] six negatively phrased items) and the perceived self-efficacy scale ([PSES], four positively phrase items). Cronbach alphas for the subscales were reported as PHS, 0.86, and PSES, 0.82 (Roberti et al., 2006). The PSS-10 translated in Ukrainian produced a Cronbach α =0.84 with subscales of 0.83 PHS and 0.58 PSES (De-identified et al., 2020). On the current sample, the full scale produced a Cronbach α =0.84 at 95% CI (0.78 to 0.89) with subscales of 0.83 PHS at 95% CI (0.77 to 0.89) and 0.58 PSES at 95% CI (0.40 to 0.72).

Brief Resilience Scale

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The Brief Resilience Scale (Smith et al., 2008) assesses the original definition of 400 resilience: to bounce or spring back or recover from stress. Statements on the scale 401 include, "I tend to bounce back quickly after hard times" and "I have a hard time 402 making it through stressful events." The 6-item Likert scale is from 1 = strongly dis-403 agree to 5 = strongly agree. The self-report yields a sum of 6-30, and then the sum 404 is divided by the number of questions answered. The established cut-off scores for 405 the scale interpret low (1.00–2.99), normal (3.00–4.30), and high (4.31–5.00) resil-406 ience scores. The scale has shown good internal consistency and test-retest reliabil-407 ity in behavioral medicine research. Cronbach's α for the one-factor scale was noted 408 to be between 0.84 and 0.86 (Smith et al., 2008). The BRS translated into Ukrainian 409 produced a Cronbach α =0.83 (De-identified et al., 2020). Study sample measure 410 produced Cronbach $\alpha = 0.83$ at 95% CI (0.77 to 0.88). 411

Results

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A total of 127 surveys were completed in the Ukrainian language. The survey was back-413 translated using resources from the previously conducted validation study (De-identified, 414 2020). The translation of open-response demographic questions from Ukrainian to Eng-415 lish was performed using online translation software because the statements provided in 416 response to the variables, region of the country, language spoken in the home, and length 417 of time in the current relationship did not require interpretation of meaning. Data was 418 then screened for completeness according to the inclusion criteria. Forty-seven cases 419 were excluded from the study because participants did not respond to one of the included 420 scales. The total study sample size was N=80. 421

422 Data analysis

- Data analyses were conducted using descriptive statistics and simultaneous multi-
- ple regression. The achieved power for the actual sample size of N=80 was calcu-
- lated via G*Power. Sufficient power at $1-\beta=$. 82 was achieved to detect a medium



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effect, Cohen's $f^2 = 2.72$, with $\alpha = 0.05$. The outcome variable was subjective well-being. The predictor variables were psychological resilience and perceived stress.

All analyses described in this section were performed using IBM SPSS Statistics Version 27. Descriptive statistics of the study participants were explored by the variables of interest. The results for the total sample (N=80) are as follows: Perceived AQ15 Stress Scale (PSS-10), M = 18.8 (SD = 6.3); Brief Resilience Scale (BRS), M = 2.8(SD=0.70); and WHO-5 Well-being Index (WHO-5), M=12.7 (SD=4.3). The mean scores for the scales were interpreted with cut-off scores as follows: PSS-10 AQ16 reflects moderate stress with cut-off scores at 18-29; BRS below 2.99, suggesting low resilience; and WHO-5 mean equal to less than 13, indicating further evaluation of depressive symptoms and the possibility of poorer well-being. The descriptive AQ17 statistics results for the measures by the categorical variable children in the home were as follows: no children in the home (n=41), PSS-10, M=18.3 (SD=6.19); BRS, M = 2.84 (SD = 0.71); and WHO-5, M = 12.78 (SD = 4.45), and yes children in the home (n=39), PSS-10, M=19.23 (SD=6.47); BRS, M=2.81 (SD=0.70); and WHO-5, M = 12.67 (SD = 4.2). Pearson product-moment correlation coefficients AQ18 suggested a strong negative relationship between WHO-5 and PSS-10, r = -0.71, p < 0.001. Correlation results also suggested a moderately negative relationship between PSS-10 and BRS, r = -0.43, p < 0.001, and a moderately positive relationship between WHO-5 and BRS, r=0.35, p=0.001.

Simultaneous multiple regression was used to investigate perceived stress, as measured by the PSS-10, and psychological resilience, as measured by the BRS predictive significance of well-being as measured by the WHO-5 among Ukrainian adults after controlling for whether or not children were in the home. The assumption tests required for a simultaneous multiple regression were met (e.g., the ratio of cases to predictor variables, normality, linearity, homoscedasticity and independence of residuals, absence of univariate and multivariate outliers, and multicollinearity and singularity). The null hypothesis was tested. Data analysis followed adjustment procedures, meaning the covariate variable was entered into the model before the predictor variables (Pourhoseinghol et al., 2012). The categorical variable of children in the home, dummy coded, 0=no (zero children in the home) and 1=yes (one or more children in the home) was entered into the model first and PSS-10 and BRS scores. The results of the regression were evaluated to determine the extent to which perceived stress and resilience predicted well-being after controlling for children in the home. Soper's (2016) online calculator was used to determine the confidence intervals and the effect size for the full model. The simple regression of well-being and children in the home indi-AQ19 cated that F(1,76) = 0.014, p = 0.907, $R^2 = 0.000$, and adjusted $R^2 = -0.013$, and the full model with all three variables produced F(1,76) = 25.4, p < 0.001, $R^2 = 0.50$, adjusted $R^2 = 0.48$, and Cohen's $f^2 = 0.92$ at 95% CI (0.491 to 1.695). The results are in Table 2.

An examination of each step of the regression model showed that children in the home produced no significant changes in variance. Taken together, 50% (48% adjusted) of the variance of well-being was predicted by scores on the perceived stress and brief resilience scales. The standardized coefficient, $\beta = -0.68$ (partial r = -0.66) showed that the PSS-10 significantly predicted well-being in size and direction. Resilience in the regression model was positively correlated with well-being and negatively correlated with stress; however, the relationship did not



-01

0.00

0.5

0.97

-2.05

0.11

14.13

12.78

-0.02

-0.43** 0.07

-0.02

0.35*

4. Children in the home

3. BRS

Children in the home

Constant

Step 1

Children in the home

PSS-10

Constant

Step 2

2.34

25.1

15.77

20.43 0.31 0.33

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0.37

0.55

-0.35

-0.59

-0.47

0.7

1.72

-1.08

SEBTable 2 Correlations and multiple regression of predictor variables of well-being after controlling for children in the home Ω 95% CI for *B* $\Gamma\Gamma$ В -0.010.07 0.35* -0.71**1. WHO-5 2. PSS-10 Variables

 ΔR^2

 R^2

CI confidence intervals, LL lower limit, UL upper Limit. *p = 0.001, **p < 0.001



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significantly contribute to the full regression model, $\beta = 0.053$ (partial, r = 0.07). The unique contribution of each predictor variable showed perceived stress accounted for 43.5%, while resilience uniquely explained 0.5% of variance. The alternative hypothesis was accepted as perceived stress and resilience significantly predicted well-being in adults exceeding the presence of children in the home.

A regression equation was developed to predict well-being as measured by the WHO-5 accounting for children in the home using perceived stress and resilience. WHO-5=20.434+(-0.013)+PSS-10 (-0.684)+BRS (0.053). The equation indicated that mean scores on the predictive variables would produce a well-being score of 7, well-below the cut-off score for screening for depressive disorders, whereas perceived stress scores of M=12.5, one standard deviation below the mean and resilience scores of M=3.5, and one standard deviation above the mean generated a well-being of 12.

Discussion

This pilot study investigated resilience and stress to predict well-being to advance Huppert and So's (2013) findings on well-being as human flourishing in European countries, more specifically, former Soviet-Union nations like Ukraine that ranked at lowest in all domains. The variable of children in the home was included as a covariate because research and national reports about families in Ukraine suggested that adults, parents, and caregivers' ability to care for children might be impaired by psychological distress related to chronic stressors and unresolved trauma. This exploratory study tested the hypothesis that there was no relationship between perceived stress and resilience in predicting subjective well-being in Ukrainian adults while controlling for the presence of children in the home during the coronavirus pandemic and six years into the Anti-Terrorism Operation (ATO).

The full regression model showed a significant association between stress and resilience when predicting the well-being of adults; however, whether or not children were in the home did not vary Ukrainian adults' scores on the well-being scale. Additionally, an assessment of the model revealed that perceived stress significantly varied with well-being, 43%, clearly indicating perceived stress's influential relationship to well-being. The bivariate correlation between resilience and well-being was moderate in strength with a small effect size while only accounting for 5% of the regression model. These results offer several contributions to the body of research about Ukrainians and their well-being.

First, perceived stress was an influential variable in understanding Ukrainians' well-being, expanding Huppert and So's (2013) seminal study on defining flourishing as a high quality of mental health. Particularly, perceived stress had an inverse relationship with well-being, bivariately and predictively. The result supported the need to include a conceptualization of psychological stress like Lazarus' (1999) as a factor when exploring characteristics that either promote or hinder subjective well-being in Ukrainian adults. Perceived stress measured in this study quantified Ukrainians' perceptions of unpredictability, uncontrollability, and the degree to which they felt overloaded by their lives. The result showed that higher scores on the perceived



stress scale were correlated with lower scores on the well-being scale, indicating psychological distress and a possible mental health disorder, like depression, a condition known to prevail in Ukraine (Global Mental Health, 2020). Alternatively, the finding inferred the opposite; lower scores on the perceived stress suggested predictable, controllable, and manageable life stressors were associated with higher scores on the well-being scale. This finding corresponds to Diener et al. (2017) emphasis on the hedonic and eudaimonic characteristics of well-being because the Ukrainian women in the study had perceived stress scores in the moderate range. Specifically, perceptions of environmental stressors that were positively associated with sense of self-efficacy and agency during the coronavirus pandemic and the ATO likely varied with positive well-being. Overall, the result suggested that stress management, or the lack thereof, was significant in predicting well-being in Ukraine, a former Soviet Union country.

Second, the study found that resilience made an insignificant contribution to the prediction of well-being scores, but was negatively correlated with perceived stress. The small contribution of resilience in this study does align with Huppert and So (2013), who found that Ukrainians' score on the resilience measure was the second lowest overall, leaving Bulgaria with the lowest score. Unlike Huppert and So (2013), who found that the construct contributed to the 56% of the explainable variance in overall well-being, the results of the current study implied the degree of the construct within the Ukrainian sample blunted its relationship with well-being. Study results indicated a mean of low resilience, which positively correlated with well-being and negatively associated with perceived stress, but contributed an insignificant amount of explainable variance. Huppert and So (2013) noted that the contextual factors of limited access to material resources, political corruption, and historical trauma pervasive in Soviet Union countries could negatively influence the well-being of these countries. The current measure of resilience, coupled with the intergenerational influence of Ukrainian history, may not have uniquely contributed to the overall model because of the inherent challenges of bouncing back or recovering during personal and social adversities like a mandated quarantine and an ongoing violent conflict.

Third, children in the home did not meaningfully control any variance in well-being scores. This result was different from Burlaka et al. (2017, 2019) and Churakova et al. (2017), who found that life stressors of financial distress, exposure to intimate partner violence, and help-seeking behaviors negatively influenced parenting. These studies suggested that these contextual risk factors may disrupt adults in parental role capacity to positively adapt and use ineffective coping strategies such as maladaptive emotion regulation. However, this study indicated that children in the home did not change adults' perceptions of their subjective well-being. The result also did not corroborate previous findings that children enhance adult resilience (Kimhi et al., 2015; Wu et al., 2013). Adults with and without children in the home scored in the low range on their ability to bounce back. The study results suggested that participants likely align with Libanova et al. (2020) report that personal happiness makes a meaningful contribution to subjective well-being in Ukraine. It also supported previous studies by Yakushko (2005), Global Mental Health (2020), and De-identified (2014), which concluded that the high rates of mental health disorders



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and environmental stressors have a greater influence on perceived stress in adults in Ukraine. The study results indicated that the adults' psychological well-being in the current study was not significantly related to the presence of children.

Fourth, the study results also aligned with Libanova et al. (2020) by documenting lower resilience and subjective well-being in Ukrainians, especially, women. The lower well-being measured by the WHO-5 suggested further assessment for depressive disorders, which has been shown to thwart resilience-promoting behaviors and thoughts such as adaptive and prosocial behavior, cognitive flexibility, and positive outlook (Bonanno & Mancini, 2011; Liu et al., 2018; Troy & Mauss, 2011). The findings infer that greater capacity to regulate emotions had an inverse relationship between stress, which corresponded with prior cross-cultural research by Galatzer-Levy et al. (2018), Liu et al. (2018), DeCarvalho and Whealin (2012), and McCarffery (2011), Ozbay et al. (2007), and Southwick et al. (2016). These studies indicated AQ23 that affect and emotion regulation and social support are critical characteristics for people to bounce back from adversity and trauma. As such, the result suggested low resilience was correlated with low well-being noting the possible psychosocial challenges related to the convergence of stressors like the coronavirus pandemic and the ATO.

Limitations of the Study

The pilot study has limitations that should be considered when interpreting the results and their generalizability. The study used self-report instruments, and the accuracy of the findings is limited to the respondents' truthfulness. Participation was voluntary, and no incentive was provided, yet consideration must be given to participation bias. Since the study was conducted during the coronavirus pandemic, participants' responses may be more reflective of the time and less of their overall experience with stress, well-being, and resilience. The use of a resilience scale that measured bouncing back may also have been a limitation of the study. The circumstance in Ukraine at the time of the study may have attributed to the insignificant influence of the measure. Notably, 93.8% of the convenience sample used in the study were women, which suggested the findings may not apply to Ukrainian men. The study's sample size limits its applicability regardless of the statistical power achieved because it was drawn from a convenience sample. The statistical method further limits the findings of the study to detect associations and shared variance, not causation. Even with these limitations in mind, the findings of this study offer practical suggestions to nongovernmental agencies, policymakers, and helping professionals in Ukraine. They also add to the existing research on resilience, perceived stress, and well-being.

Study Implications

Ukraine is a young democracy battling a foreign aggressor. Citizens undoubtedly will need individual, marriage, and family counseling services to treat mental health conditions associated with the current war. Interestingly, the results of this pilot



study suggested that alongside being prepared to treat post-traumatic stress disorder, anxiety, and depression, counselors should consider assessing and treating clients' psychological stress response to their daily experiences. Counselors could integrate Lazarus (1999) conceptual framework to understand clients' appraisal of the life circumstances and their capacity to navigate them effectively. Then, counselors could utilize resilience promoting interventions such as affirming beliefs, emotion regulation techniques, mindfulness, behavior adaption, and social supports to prepare clients to recover or bounce back from daily adversities (Bonanno & Mancini, 2011; Lui et al., 2018; Troy & Mauss, 2011; Wu et al., 2013). These interventions AQ24 have shown to improve healthy living habits; reduce hopelessness, helplessness, and avoidance behaviors; and allow people to modify their behaviors to successfully respond to stressful circumstances. Notably, Masten (2015) found that parents and other significant figures indirectly influence children's response to trauma and adversity. Improving Ukrainian adults' ability to manage life stressors, especially women, could influence positive outcomes for children. The study immediately informs the field of counseling in Ukraine by evidencing the importance of systematically addressing psychological stress for adults with and without children in the home to improve subjective well-being.

The study results also imply the need to infuse the treatment of psychological stress using the prevention paradigm (Conyne, 2015; Funk et al., 2003). The study findings could aid nongovernmental agencies, military chaplains, and health professionals in creating multilevel interventions to manage life stressor and enhance resilience within the general populace and people in parental roles. Nongovernmental agencies could distribute mental wellness materials, including signs and symptoms of stress and health tips, during one-day events or via pamphlets or other materials provided to constituents. The agencies could offer community and parenting support groups to teach stress management techniques like setting short-term goals and exercising. Support groups could offer resources about parenting while stressed and facilitate informal peer mentoring. Military chaplains might also enhance social support to individuals and families by incorporating volunteer opportunities for other military-connected persons. The clergy could offer church-sponsored social events to reduce stress and develop community relationships that cultivate optimism. Promoting resilience through community engagement could decrease the negative implications of the ongoing war with Russia, while increasing Ukrainians' sense of self-efficacy and social support.

The three self-report instruments used in this study proved useful, and their application in Ukraine does appear utile for health professionals. Both medical and mental health professions could utilize the findings to integrate strength-based interventions such as wellness counseling into the care of adults. Psychiatrists and counselors could use these instruments to demonstrate the restorative nature of therapeutic services, which might improve Ukrainians' trust in mental health services. Both professions could apply the results of the instruments at the individual level to create treatment plans and monitor progress. They could use the scores from the scales along with their clinical knowledge to develop treatment plans that employ secondary and tertiary interventions such as mental health counseling, medication, nutrition, exercise, and sleep hygiene. Treatment goals could include increasing



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well-being, resilience, and improved stress management. The re-administration of the instruments throughout care could inform service providers with a mechanism to explore health as both physical and mental functioning.

Broadly, the pilot study showed the importance of including both eudaimonic and hedonic measures to predict well-being in Ukraine. Researchers and counselors alike should consider incorporating these or similar scales into future research and clinical practice. These measures could enhance the contextualization of findings about study participants' perspectives of subjective well-being research. Counselors could incorporate stress and resilience self-report scales to understand clients' distress, improve treatment planning, and monitor clinical progress more comprehensively. The inclusion of psychological variables that account for the people's perceptions of daily life stressors and their ability to recover from them can provide researchers, medical doctors, and counselors with vital information about the material and psychosocial needs of clients. The practical application of these instruments would aid practitioners, especially professional counselors, in embracing a holistic approach to medical and mental health care as the country transforms its healthcare system to meet the needs of citizens.

Future Research Directions

Additional studies on resilience in Ukraine should continue to identify the culturally contextual risk and strategies to cultivate universal protective factors. Future research should begin with replicating this present study on a national scale to determine generalizability. The national study should consider including measures that specify the various domains of resilience. Moreover, a quantitative study investigating individual and family resilience alongside associated stress factors across family characteristics, including single-parent homes, would provide insight into the needs of Ukrainians' well-being. Studies could also explore the experience of men and fathers' well-being and resilience, in particular, males' influence on families and the lives of children. Future research could also include experimental and quasi-experimental designs administering these scales to measure change over time in Ukraine and across the globe. Studies focused on mental health therapies, public health interventions, and policies that promote resilience and improve stress management to facilitate subjective well-being at the individual, community, and societal levels would advance this line of research.

Conclusion

The results of this pilot study provide initial findings of resilience, perceived stress, and subjective well-being in Ukrainian adults after controlling for children in the home. Findings suggested that services and programs designed to reduce psychological stress and promote resilience would help mitigate the negative effects of historical and present-day adversities that have been linked to the high prevalence of depression, anxiety, and substance use disorders. Counselors and



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other helping professionals could play an essential role in improving the health of Ukrainians. Uniting Ukraine through its endeavors to adapt positively after

trauma and adversity must be a national effort grounded in well-being science.

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Declarations

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725 726 **Competing Interests** The authors declare no competing interests.

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