Questionnaire analysis

8	7	6	5	4	3	2	1	Question
						/Female أنثى	ذکر/Male	جنس الطفل/Child's gender
					Refugee camp/مخيم اللاجئين	Displace d within Lebano n/خان داخل لبنان	Original الم/Original سكن الأصلي	Child's current residence/مكان إقامة
Bekaa/ البقاع	Nabatieh/ا لنبطية	North Lebanon /شمال لبنان	South Leban on/جنو ب لبنان	Beirut/بیر وت	Baalbeck- Hermel/بعلب ك-الهرمل	ع/Akkar کار	Mount Lebanon/ جبل لبنان	in which district do u live?/في أي قضاء تقيم
				غي/Other ر ذلك	Part- time/مُوظَّف بدوام جزئي	Unempl oyed/كا يعمل	Employed مُوظَّف/	Parent/guardian's occupation status before the war/حالة الوالد/الوصى الوظيفية قبل الحرب
						No/X	نعم/Yes	Did your family experience displacement due to the war?/هل تعرضت عائلتك للنزوح بسبب الحرب
		Yet displaced ما زلنا/ نازحین	أكثر/+5 من خمسة أشهر	4	3	2	1 or افعر أو/less أقل	If yes, how long was the child displaced till now by month?/اذا كانت الإجابة نعم، كم كانت مدة نزوح الطفل حتى الآن بالأشهر
				غي/Other ر ذلك	Part- time/مُوظَّف بدوام جزئي	Unempl oyed/کا یعمل	Employed مُوظَّف/	Parent/guardian's current employment status/حالة الوالد/الوصي الوظيفية الحالية
						No/کا	Yes/نعم	Did your child experience (heard, saw) bombings or explosions in the residence village/city?/هل تعرض طفلك (سمع أو رأى) تفجيرات أو انفجارات في القرية/المدينة التي يقيم فيها
						No/X	نعم/Yes	Did your child lose a family member due to the war?/هل فقد طفلك أحد أفراد العائلة بسبب الحرب
						No/X	Yes/نعم	Was your house destroyed due to war? هل تم تدمير منزلك بسبب الحرب
						No/X	Yes/نعم	Did your child get separated from parent/guardian? (for any reason other than death)/ هل انفصل طفلك عن الوالد/الوصي؟ (لأي سبب آخر
					2	No/X	نعم/Yes	Did your child face food/water shortages due to the war?/هل واجه طفلك نقصًا في الطعام/الماء بسبب الحرب
			Always دائِماً/	غا/Often لِباً	آ/Sometimes ځیاناً	نا/Rarely دِراً	أبَداً/Never	Before the war, how often did your child have difficulty in

		1		1	
					قبل الحرب، كم مرة كان /?sleeping طفلك يعاني من صعوبة في النوم
Always دائِماً/	غا/Often لِباً	أ/Sometimes حْياناً	نا/Rarely دِراً	أبَداً/Never	After the war, how often did your child experienced hypervigilance (being alerted to the environment)?/ عانى طفلك من فرط اليقظة (الانتباه عانى طفلك من فرط اليقظة (الانتباه
Always دائِماً/	غا/Often لِباً	أ/Sometimes حْياناً	نا/Rarely دِراً	أَبَداً/Never	Before the war, how often did your child suffer from nightmares?/ قبل الحرب، كم مرة عانى طفلك من الكوابيس
Always دائِماً/	غا/Often لِباً	أ/Sometimes ځیاناً	نا/Rarely دِراً	أبَداً/Never	After the war, how often did your child suffer from nightmares related to the war?/ بعد الحرب، كم مرة عانى طفلك من كوابيس مرتبطة بالحرب
Always دائِماً/	غا/Often لِباً	أ/Sometimes حْياناً	نا/Rarely دِراً	أبَداً/Never	Before the war, how often did your child experience worry/fear?/ قبل الحرب، كم مرة عانى طفلك من القلق/الخوف
Always دائِماً/	غا/Often لِباً	أ/Sometimes حْياناً	نا/Rarely دِراً	أبَداً/Never	After the war, how often did your child experience worry/fear?/ بعد الحرب، كم مرة عانى طفلك من الحرف الخوف
Always دائِماً/	غا/Often لِباً	أ/Sometimes حْياناً	نا/Rarely دِراً	أبَداً/Never	Before the war, how often did your child show aggressive behavior?/ قبل الحرب، كم مرة أظهر طفلك سلوكا عدوانيا
Always دائِماً/	غا/Often لِباً	أ/Sometimes حُياناً	نا/Rarely دِراً	أبَداً/Never	After the war, how often did your child show aggressive behavior?/ بعد الحرب، كم مرة أظهر طفلك سلوكا عدوانيا
Always دائِماً/	غا/Often لِباً	أ/Sometimes حْياناً	نا/Rarely دِراً	أبَداً/Never	Before the war, how often did your child suffer from withdrawal from family/friends?/ كم مرة كان طفلك يعاني من الانسحاب من العائلة/الأصدقاء
Always دائِماً/	غا/Often لِباً	أ/Sometimes حْياناً	نا/Rarely دِراً	أبَداً/Never	After the war, how often did your child suffer from withdrawal from family/friends?/ عانى طفلك من الانسحاب من العائلة/الأصدقاء
Always دائِماً/	غا/Often لِباً	أ/Sometimes حْياناً	نا/Rarely دِراً	أبَداً/Never	Before the war, how often did your child experience mood swings?/ قبل الحرب، كم مرة عانى طفلك من تقلبات مزاجية
Always دائِماً/	غا/Often لِباً	أ/Sometimes خياناً	نا/Rarely دِراً	أبَداً/Never	After the war, how often did your child experience mood swings?/ بعد الحرب، كم مرة عانى طفلك من تقلبات مزاجية
Always دائِماً/	غا/Often لِباً	أ/Sometimes حْياناً	نا/Rarely دِراً	أبَداً/Never	After the war, how often did your child avoid war related

						بعد الحرب، كم مرة تجنب //topics طفلك الموضوعات المتعلقة بالحرب؟
	Religio us practic es/المما رسات الدينية	Avoidanc e of triggers/ بنجت المحفزات	Drawing/Wri ting/الرسم کتابة	Playing games/s ports/م مارسة الألعاب/ا لرياضات	Talking to family/frie nds/التواص ل مع العائلة/الأص دقاء	What strategies does your child use the most to cope with stress? ما هي/(select all that apply) الاستراتيجيات التي يستخدمها طفلك بشكل أكبر للتعامل مع التوتر؟ (اختر جميع (ما ينطبق
				No/ﷺ	Yes/vei	Has you child received psychological support (mental health first aid, clinical therapy, counseling services, other) since the war?/ هل تلقى طفلك دعمًا نفسيًا / إسعافات أولية للصحة النفسية، علاج) سريري، خدمات إرشادية، أو غيرها) منذ بدء الحرب؟
	Not effecti ve/غير فعّال	Somewh at ineffectiv e/غير فعّال إلى حد ما	مُحا/Neutral	Somew hat effectiv e/فعّال فعال	Very effective/ افعّال جدًا	If yes, how effective was the support? إذا كانت الإجابة نعم، فما/ مدى فعالية الدعم
		No, the child didn't attend school/كا، محضر الطفل المدرسة	Yes, both in person and online/عدم كلاهما، شخصيًا	Yes, online/ ،نعم أونلاين	Yes, in person/نع م، شخصیًا	Did your child attend school during the war?مشر طفلك المدرسة/ خلال الحرب
			No, the child is not attending school/كا، الطفل لا يحضر الطفل المدرسة	Yes, at a differen t school/ نعم، في مدرسة مختلفة	Yes, at the same school as before/في نفس ، المدرسة كما كان من قبل الحرب	Is your child currently attending school?/ هل يحضر طفلك المدرسة حاليًا
	Declin ed signific antly/ا ضغفن بشکل کبیر	Declined slightly/ا ضغن بشکل طفیف	No change/ما یحدث تغییر	Improve d slightly/ نحسن بشکل طفیف	Improved significant ly/تحسن بشکل کبیر	Compared to before the war, how has your child's academic performance changed after the war?/ مقارنة لما قبل الحرب، كيف تغير / أداء طفلك الأكاديمي بعد الحرب
			Rarely/Neve r/نادراً/أبداً	Occasio nally/بين الحين والآخر	Yes, regularly/ مانتظام	Does your child participate in social activities in/out school?/ هل يشارك طفلك في الأنشطة الاجتماعية داخل المدرسة أو خارجها
			ریما/Maybe	No/X	Yes/نعم	Is your child currently in need of psychological support?/هل يحتاج/

		(یما/Maybe	No/X	Yes/نعم	Is your child currently in need of educational materials (Books, school supplies)?/هل يحتاج طفلك/?(حاليًا إلى مواد تعليمية (كتب، مستلزمات)
		ریما/Maybe	No/XS	Yes/معن	Is your child currently in need of safe housing?/هل يحتاج طفلك حاليًا
		ریما/Maybe	No/X	نعم/Yes	Is your child currently in need of medical care?/هل يحتاج طفلك حاليًا إلى رعاية طبية
		ریما/Maybe	No/XS	نعم/Yes	Is your child currently in need of food/water?/هل يحتاج طفلك حاليًا

Preprocessing

Null values

District: one null value => was removed.

Displacement period in months: null values because the question is optional => replaced by 0 to indicate 0 months of displacement.

Effectiveness of mental health support: null values because the question is optional => replaced by 0 to identify individuals who didn't receive support.

Outliers

No outliers to be dealt with, as the questions were put in a way to limit them.

SPSS Analysis

Independent Sample T-test

Preparation

Index_before: a continuous variable that measures the mean of sleeping disorders, nightmares, fear, aggressive behavior, social withdrawal, and mood swings before the war.

Index_after: a continuous variable that measures the mean of sleeping disorders, nightmares, fear, aggressive behavior, social withdrawal, and mood swings after the war.

Testing results

1. Index_before and displacement

Null hypothesis: There is no relationship between the index before and the displacement state.

Alternative hypothesis: There is a relationship between index_before and the displacement state.

	Q1. Did your family experience displacement due to the war?	N	Mean	Classification	Std. Deviation	Significance
Index_before	Yes	57	1.8655	Rarely	.58878	0.007*
	No	77	1.6104	Rarely	.48260	

The significance is 0.476 > 0.05, then the significance(2-tailed) 0.007 to be considered.

The p-value = 0.007 < 0.05 => Null hypothesis is rejected and alternative is accepted.

Result: **There is a relationship** between index_before that represents sleeping disorders, nightmares, fear, aggressive behavior, social withdrawal, and mood swings before the war and the displacement state.

2. Index_after and displacement

Null hypothesis: There is no relationship between the index_after and the displacement state.

Alternative hypothesis: There is a relationship between index_after and the displacement state.

	Q1. Did your family experience displacement due to the war?	N	Mean	Classification	Std. Deviation	Significance
Index_after	Yes	57	2.5058	Sometimes	.83450	0.005*
	No	77	2.0996	Rarely	.79069	

The significance is 0.494 > 0.05, then the significance(2-tailed) 0.005 to be considered.

The p-value = 0.005 < 0.05 => Null hypothesis is rejected and alternative is accepted.

Result: **There is a relationship** between index_after that represents sleeping disorders, nightmares, fear, aggressive behavior, social withdrawal, and mood swings after the war and the displacement state.

3. Index_before and hearing/seeing bombing

Null hypothesis: There is no relationship between the index_before and hearing/seeing bombing in the same city.

Alternative hypothesis: There is a relationship between index_before and hearing/seeing bombing in the same city.

	Q4. Did your child experience (heard, saw) bombings or explosions in the residence village/city?	N	Mean	Classification	Std. Deviation	Significance
Index_before	Yes	81	1.7613	Rarely	.50891	0.265*
	No	53	1.6541	Rarely	.59093	

The significance is 0.736 > 0.05, then the significance(2-tailed) 0.265 to be considered.

The p-value = 0.265 > 0.05 => Null hypothesis is accepted.

Result: **There is no relationship** between index_before that represents sleeping disorders, nightmares, fear, aggressive behavior, social withdrawal, and mood swings before the war and hearing/seeing bombing in the same city.

4. Index_after and hearing/seeing bombing

Null hypothesis: There is no relationship between the index_after and hearing/seeing bombing in the same city.

Alternative hypothesis: There is a relationship between index_after and hearing/seeing bombing in the same city.

	Q4. Did your child experience (heard, saw) bombings or explosions in the residence village/city?	N	Mean	Classification	Std. Deviation	Significance
Index_after	Yes	81	2.4959	Rarely	.82663	<0.001*
	No	53	1.9308	Rarely	.72090	

The significance is 0.043 < 0.05, then the significance(2-tailed) < 0.001 to be considered.

The p-value = (<0.001) < 0.05 => Null hypothesis is rejected and alternative is accepted.

Result: **There is a relationship** between index_after that represents sleeping disorders, nightmares, fear, aggressive behavior, social withdrawal, and mood swings after the war and hearing/seeing bombing in the same city.

One way ANOVA

Testing results

1. Index_after and period of displacement

Null hypothesis: There is no relationship between the index_after and the displacement period.

Alternative hypothesis: There is a relationship between index_after and the displacement period.

Index_after	N	Mean	Std. Deviation	Minimum	Maximum	Significance
0	81	2.0864	.77420	1.00	4.00	0.044*
1 or less	6	2.2222	.94084	1.33	3.67	
2	18	2.4907	.75726	1.00	3.50	
3	11	2.6818	.86427	1.50	4.33	
4	8	2.8333	1.08379	1.33	4.33	
5+	7	2.5952	.65868	1.33	3.33	
Yet displaced	3	2.3333	1.16667	1.50	3.67	
Total	134	2.2724	.83134	1.00	4.33	

The p-value = 0.044 < 0.05 => Null hypothesis is rejected and alternative is accepted.

Result: **There is a relationship** between index_after that represents sleeping disorders, nightmares, fear, aggressive behavior, social withdrawal, and mood swings after the war and the displacement period.

2. Index_after and child current residence

Null hypothesis: There is no relationship between the index_after and the child current residence.

Alternative hypothesis: There is a relationship between index_after and the child current residence.

Index_after	N	Mean	Std. Deviation	Minimum	Maximum	Significance
Original home	115	2.1913	.82133	1.00	4.33	0.008*

Displaced within Lebanon	17	2.6765	.72522	1.33	4.17
Refugee camp	2	3.5000	.23570	3.33	3.67
Total	134	2.2724	.83134	1.00	4.33

The p-value = 0.008 < 0.05 => Null hypothesis is rejected and alternative is accepted.

Result: **There is a relationship** between index_after that represents sleeping disorders, nightmares, fear, aggressive behavior, social withdrawal, and mood swings after the war and the child current residence.

3. Index_after and avoiding war related topics

Null hypothesis: There is no relationship between the index_after and avoiding war related topics.

Alternative hypothesis: There is a relationship between index_after and avoiding war related topics.

Index_after	N	Mean	Std. Deviation	Minimum	Maximum	Significance
Never	49	1.7517	.71047	1.00	4.33	<0.001*
Rarely	30	2.1056	.57981	1.33	3.33	
Sometimes	26	2.7756	.69112	1.50	4.33	
Often	24	2.9722	.64394	1.50	4.17	
Always	5	2.4000	.99023	1.17	3.50	
Total	134	2.2724	.83134	1.00	4.33	

The p-value = (<0.001) < 0.05 => Null hypothesis is rejected and alternative is accepted.

Result: **There is a relationship** between index_after that represents sleeping disorders, nightmares, fear, aggressive behavior, social withdrawal, and mood swings after the war and avoiding war related topics.

4. Index_after and school attendance in war

Null hypothesis: There is no relationship between the index_after and school attendance in war.

Alternative hypothesis: There is a relationship between index_after and school attendance in war.

Index_after	N	Mean	Std. Deviation	Minimum	Maximum	Significance
Yes, in person	52	1.8750	.76332	1.00	4.00	<0.001*
Yes, online	41	2.4593	.73199	1.33	4.33	
Yes, both in person and online	14	2.5595	.82588	1.67	4.33	
No, the child didn't attend school	27	2.6049	.83480	1.00	4.17	
Total	134	2.2724	.83134	1.00	4.33	

The p-value = (<0.001) < 0.05 =>Null hypothesis is rejected and alternative is accepted.

Result: **There is a relationship** between index_after that represents sleeping disorders, nightmares, fear, aggressive behavior, social withdrawal, and mood swings after the war and school attendance in war.

5. Index_after and school attendance after war

Null hypothesis: There is no relationship between the index_after and school attendance after war.

Alternative hypothesis: There is a relationship between index_after and school attendance after war.

Index_after	N	Mean	Std. Deviation	Minimum	Maximum	Significance
Yes, at the same school as before	117	2.2365	.85216	1.00	4.33	0.191*
Yes, at a different school	17	2.5196	.63706	1.33	3.67	
Total	134	2.2724	.83134	1.00	4.33	

The p-value = 0.191 > 0.05 => Null hypothesis is accepted and alternative is rejected.

Result: **There is no relationship** between index_after that represents sleeping disorders, nightmares, fear, aggressive behavior, social withdrawal, and mood swings after the war and school attendance after war.

Chi Square

Testing results

1. Displacement period and receiving mental health support

Null hypothesis: There is no relationship between the displacement period and receiving mental health support.

Alternate hypothesis: There is a relationship between the displacement period and receiving mental health support.

		Q2. If yes, how long was the child displaced till now by month?					month?	Total	
		0	1 or less	2	3	4	5+	Yet displaced	
Q2. Has your child Yes	Count	5	2	2	4	2	1	1	17
received psychological support (mental	% of Total	3.7%	1.5%	1.5%	3.0%	1.5%	0.7%	0.7%	12.7%
health first aid, clinical No therapy, counseling	Count	76	4	16	7	6	6	2	117
services, other) since the war?	% of Total	56.7%	3.0%	11.9%	5.2%	4.5%	4.5%	1.5%	87.3%
Total	Count	81	6	18	11	8	7	3	134
	% of Total	60.4%	4.5%	13.4%	8.2%	6.0%	5.2%	2.2%	100.0%
	Pearson	13.285							
	ci-square								
	Significan		0.039*						
	ce								

The p-value = 0.039 < 0.05 => Null hypothesis is rejected and alternative is accepted.

Result: There is a relationship between the displacement period and receiving mental health support.

2. Parent employment before the war and receiving mental health support

Null hypothesis: There is no relationship between the parent employment before the war and receiving mental health support.

Alternate hypothesis: There is a relationship between the parent employment before the war and receiving mental health support.

Q5. Parent/guardian's occupation status before the war

			Employed	Unemployed	Part-time	Other	Total
received psychological support (mental health	Yes	Count	15	1	0	1	17
		% of Total	11.2%	0.7%	0.0%	0.7%	12.7%
	No	Count	71	7	7	32	117
		% of Total	53.0%	5.2%	5.2%	23.9%	87.3%
Total		Count	86	8	7	33	134
		% of Total	64.2%	6.0%	5.2%	24.6%	100.0%
		Pearson chi square			5.551		
		Significance	2		0.136*		

The p-value = 0.136 > 0.05 => Null hypothesis is accepted and alternative is rejected.

Result: **There is no relationship** between the parent employments before the war and receiving mental health support.

3. Losing a family member and receiving mental health support

Null hypothesis: There is no relationship between losing a family member and receiving mental health support.

Alternate hypothesis: There is a relationship between losing a family member and receiving mental health support.

		Q5. Did your chi member due to		
		Yes	No	Total
Q2. Has your child received Yes psychological support	Count	7	10	17
(mental health first aid,	% of Total	5.2%	7.5%	12.7%
clinical therapy, counseling \overline{No}	Count	15	102	117

services, other) since the war?	% of Total	11.2%	76.1%	87.3%
Total	Count	22	112	134
	% of Total	16.4%	83.6%	100.0%
	Pearson chi- square	si- 8.697		
	Significance		0.003*	

The p-value = 0.003 < 0.05 => Null hypothesis is rejected and alternative is accepted.

Result: **There is a relationship** between the losing a family member due to the war and receiving mental health support.

4. House destruction and receiving mental health support

Null hypothesis: There is no relationship between house destruction and receiving mental health support.

Alternate hypothesis: There is a relationship between house destruction and receiving mental health support.

		Q6. Was your house destroyed due to war?		
		Yes	No	Total
Q2. Has your child received Yes psychological support	Count	6	11	17
(mental health first aid,	% of Total	4.5%	8.2%	12.7%
clinical therapy, counseling No services, other) since the	Count	14	103	117
war?	% of Total	10.4%	76.9%	87.3%
Total	Count	20	114	134
	% of Total	14.9%	85.1%	100.0%
	Pearson chi-		6.362	
	square			
	Significance		0.012*	

The p-value = 0.012 < 0.05 => Null hypothesis is rejected and alternative is accepted.

Result: There is a relationship between the house destruction and receiving mental health support.

Paired sample t-test

Testing results

1. Index_before and index_after

Null hypothesis: There is no relationship between index before and after war.

Alternate hypothesis: There is a relationship between the index before and after war.

Paired Samples Statistics

		Mean	N	Std. Deviation	Significance
Pair 1	Index_before	1.7189	134	.54321	<0.001*
	Index_after	2.2724	134	.83134	

p-value = (<0.001) < 0.05 => Null hypothesis is rejected and alternative is accepted

Result: **There is a relationship** between sleeping disorders, nightmares, fear, aggressive behavior, social withdrawal, and mood swings before and after the war.

Coping activities

Here is a table that shows the different coping activities that helped the children to cope with the war.

		Responses		Percent of
Coping_activities frequencies		N	Percent	Cases
Coping_activities ^a	Q1. Coping_family_and_friend s	94	39.5%	70.1%
	Q1. Coping_playing_games/sp orts	67	28.2%	50.0%

	Q1. Coping_drawing/writing/reading		19.3%	34.3%
	Q1. Coping_religious_practices		8.0%	14.2%
	Q1. Coping_avoidance_of_trigg ers		5.0%	9.0%
Total		238	100.0%	177.6%

As revealed by the table, the most coping activity used was communicating with family and friends with around 40% of the children used this way, followed by playing games and sports. Further analysis to be done in order to observe the effectiveness of such coping mechanisms and how they can help children overcome crisis.