

Table S1*Descriptive statistics*

Variables	<i>M</i>	<i>SD</i>	Skewness	Kurtosis	α	<i>M</i>	<i>SD</i>	Skewness	Kurtosis	α	<i>Coping as a mediator between temperament and stress-related variables</i>
	Study 1 (Polish population)					Study 2 (Ukrainian refugees)					
TMQ_Susceptibility	3.16	.70	−.10	−.13	.78	3.05	.79	−.10	.04	.80	
TMQ_Perseveration	3.23	.83	−.08	−.22	.88	3.26	.89	−.17	−.29	.85	
TMQ_Resistance	2.86	.75	−.15	−.13	.82	2.90	.78	−.03	−.11	.79	
TMQ_Resiliency	2.93	.74	−.22	.12	.81	2.93	.79	.04	.17	.80	
TMQ_Briskness	2.89	.71	−.18	.12	.84	3.11	.77	−.01	−.02	.76	
TMQ_Lability	3.06	.69	−.22	.40	.81	2.95	.78	.05	.15	.76	
TMQ_Steadiness	3.16	.56	−.29	.62	.68	3.22	.76	−.31	.46	.77	
TMQ_Permanence	3.32	.67	−.08	.11	.82	3.38	.84	−.20	−.25	.83	
CCM_Positive emotional coping	2.96	.66	−.29	−.31	.72	2.95	.74	−.13	−.18	.73	
CCM_Optimistic action	3.13	.70	−.11	−.01	.79	3.31	.67	.17	.06	.80	
CCM_Problem solving	3.38	.67	.15	−.04	.86	3.36	.74	−.17	−.26	.84	
CCM_Preoccupation with the problem	3.23	.59	.19	.83	.78	3.27	.62	−.28	.23	.79	
CCM_Negative emotional coping	3.33	.73	−.03	−.10	.76	3.20	.76	.02	−.13	.76	
CCM_Pessimistic passivity	2.94	.70	−.04	.01	.83	2.81	.69	.21	.30	.83	
CCM_Problem avoidance	2.89	.67	−.33	−.14	.79	2.79	.72	.06	−.08	.82	
CCM_Hedonic disengagement	2.56	.74	−.14	−.69	.80	2.63	.70	.24	−.09	.76	
Well-being	2.48	1.05	−.01	−.46	.92	3.76	1.04	.04	−.39	.92	
Hedonistic well-being	2.68	1.19	−.01	−.74	.79	3.68	1.28	.05	−.69	.84	
Social well-being	2.16	1.20	.14	−.72	.83	3.59	1.13	.10	−.42	.80	
Psychological well-being	2.64	1.14	−.14	−.44	.85	3.93	1.21	−.13	−.84	.89	
Stress	1.98	.60	−.13	1.03	.75	1.99	.62	−.08	.16	.74	
PTSD symptoms	1.76	.79	−.31	−.66	.92	2.72	.79	−.01	−.33	.93	
Intrusion	1.69	.93	−.15	−.73	.80	2.77	.92	.15	−.36	.82	
Avoidance	1.85	1.09	−.07	−.87	.69	2.79	1.02	.21	−.36	.74	
Negative alterations in cognitions and mood	1.76	.85	−.14	−.58	.81	2.70	.88	.05	−.45	.85	
Alterations in arousal and reactivity	1.78	.83	−.14	−.65	.77	2.68	.92	−.06	−.80	.84	

Note. TM – Temperament Metadimensions Questionnaire (Strus et al., 2022); CCM – Coping Circumplex Model (Stanisławski, 2019, 2022).

Table S2*Multicollinearity diagnostics (variance inflation factor and tolerance values)*

Variables	VIF	Tolerance	VIF	Tolerance
	Study 1 (Polish population)		Study 2 (Ukrainian refugees)	
TMQ_Susceptibility	2.533	.395	3.376	.296
TMQ_Perseveration	2.304	.434	3.085	.324
TMQ_Resistance	3.010	.332	3.436	.291
TMQ_Resiliency	2.730	.366	3.787	.264
TMQ_Briskness	2.184	.458	2.392	.418
TMQ_Lability	2.007	.498	2.314	.432
TMQ_Steadiness	1.772	.564	2.522	.396
TMQ_Permanence	1.872	.534	2.883	.347
CCM_Positive emotional coping	2.924	.342	2.516	.397
CCM_Optimistic action	3.206	.312	2.736	.365
CCM_Problem solving	3.584	.279	3.412	.293
CCM_Preoccupation with the problem	2.787	.359	3.450	.290
CCM_Negative emotional coping	3.041	.329	3.246	.308
CCM_Pessimistic passivity	3.205	.312	2.948	.339
CCM_Problem avoidance	2.549	.392	3.213	.311
CCM_Hedonic disengagement	2.866	.349	2.503	.400

Note. TM – Temperament Metadimensions Questionnaire (Strus et al., 2022); CCM – Coping Circumplex Model (Stanisławski, 2019, 2022).

Table S3

Correlations between variables (Polish group above the diagonal, Ukrainian group below the diagonal)

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1. TMQ_Susceptibility	.67**	-.42**	-.37**	.13*	.23**	.23**	.14**	-.25**	-.33**	-.19**	.21**	.54**	.51**	.25**	-.08	-.22**	.41**	.39**
2. TMQ_Perseveration	1	-.39**	-.43**	.001	.13*	.27**	.22**	-.32**	-.32**	-.12*	.27**	.55**	.54**	.20**	-.17**	-.27**	.35**	.39**
3. TMQ_Resistance	.02	1	.733**	.39**	.21**	.05	.06	.48**	.45**	.20**	-.06	-.44**	-.34**	-.05	.41**	.50**	-.27**	-.10
4. TMQ_Resiliency	.07	.81**	1	.35**	.29**	-.04	.04	.53**	.51**	.23**	-.08	-.40**	-.34**	-.06	.38**	.53**	-.41**	-.23**
5. TMQ_Briskness	.39**	.40**	.50**	1	.57**	-.14**	.06	.34**	.29**	.05	.15**	-.03	.03	.13*	.35**	.33**	.08	.26**
6. TMQ_Lability	.42**	.36**	.44**	.61**	1	-.13*	-.14*	.28**	.19**	-.03	.01	.03	.14*	.31**	.29**	.13*	.03	.19**
7. TMQ_Steadiness	.41**	.54**	.54**	.34**	.37**	1	.55**	-.09	.02	.17**	.22**	.20**	.09	.00	-.13*	.05	.05	.06
8. TMQ_Permanence	.41**	.48**	.50**	.50**	.29**	.67**	1	-.02	.12*	.38**	.41**	.20**	.03	-.16**	-.18**	.16**	.02	-.05
9. CCM_Positive emotional coping	-.03	.47**	.54**	.29**	.27**	.25**	.25**	1	.69**	.32**	-.03	-.38**	-.28**	.14**	.56**	.50**	-.34**	-.08
10. CCM_Optimistic action	.09	.46**	.51**	.40**	.30**	.42**	.52**	.57**	1	.59**	.22**	-.31**	-.35**	-.10	.29**	.50**	-.41**	-.24**
11. CCM_Problem solving	.23**	.35**	.40**	.46**	.26**	.46**	.56**	.38**	.65**	1	.57**	.08	-.24**	-.39**	-.20**	.36**	-.26**	-.23**
12. CCM_Preoccupation with the problem	.47**	.24**	.28**	.43**	.38**	.44**	.53**	.29**	.55**	.72**	1	.46**	.32**	-.17**	-.22**	.08	.12*	.17**
13. CCM_Negative emotional coping	.65**	-.15**	-.06	.28**	.36**	.23**	.26**	.02	.18**	.32**	.57**	1	.65**	.21**	-.30**	-.25**	.46**	.43**
14. CCM_Pessimistic passivity	.53**	-.10	-.02	.15**	.30**	.16**	.13*	.14*	-.02	.06	.35**	.65**	1	.49**	.07	-.32**	.46**	.58**
15. CCM_Problem avoidance	.29**	.14*	.17**	.13*	.37**	.13*	.01	.39**	.10	-.09	.17**	.35**	.63**	1	.52**	-.07	.27**	.44**
16. CCM_Hedonic disengagement	.02	.32**	.38**	.21**	.33**	.14*	.04	.55**	.18**	.03	-.02	.02	.31**	.62**	1	.24**	-.004	.26**
17. Well-being	.02	.35**	.38**	.29**	.18**	.29**	.34**	.35**	.45**	.44**	.33**	.02	-.07	.06	.17**	1	-.35**	-.22**
18. Stress	.39**	-.30**	-.27**	.04	.15**	-.08	-.03	-.27**	-.30**	-.15**	.03	.44**	.47**	.19**	-.02	-.37**	1	.58**
19. PTSD symptoms	.43**	-.14*	-.11	.09	.23**	.01	-.06	-.08	-.11*	-.03	.14*	.47**	.49**	.33**	.14**	-.24**	.60**	1

Note. TMQ – Temperament Metadimensions Questionnaire (Strus et al., 2022); CCM – Coping Circumplex Model (Stanislowski, 2019, 2022); * $p < .05$, ** $p < .01$.

*Coping
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between
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Table S4

Temperament facets and coping styles as predictors of well-being stress and PTSD in regression analysis: Incremental validity

	Study 1 (Polish population)				Study 2 (Ukrainian refugees)			
	Well-being	Stress	PTSD symptoms		Well-being	Stress	PTSD symptoms	
Step 1	$F(8, 327) = 21.83^{***}$	$F(8, 327) = 15.59^{***}$	$F(8, 327) = 17.14^{***}$	Step 1	$F(8, 320) = 9.75^{***}$	$F(8, 320) = 17.96^{***}$	$F(8, 319) = 16.92^{***}$	
TMQ	Adj. $R^2 = .33^{***}$	Adj. $R^2 = .26^{***}$	Adj. $R^2 = .28^{***}$	TMQ	Adj. $R^2 = .18^{***}$	Adj. $R^2 = .29^{***}$	Adj. $R^2 = .28^{***}$	
TMQ_Susceptibility	-.02	.26^{***}	.18*	TMQ_Susceptibility	.01	.28^{***}	.32^{***}	
TMQ_Perseveration	-.09	.05	.24^{***}	TMQ_Perseveration	-.15	.23^{**}	.32^{***}	
TMQ_Resistance	.13	.10	.14	TMQ_Resistance	.06	-.09	.02	
TMQ_Resiliency	.33^{***}	-.41^{***}	-.25^{***}	TMQ_Resiliency	.15	-.19*	-.03	
TMQ_Briskness	.21^{***}	.18^{**}	.31^{***}	TMQ_Briskness	.15*	-.06	-.07	
TMQ_Lability	-.07	-.06	-.03	TMQ_Lability	-.02	.11	.07	
TMQ_Steadiness	.04	-.00	.09	TMQ_Steadiness	.08	-.12	-.03	
TMQ_Permanence	.11	-.04	-.20^{***}	TMQ_Permanence	.18*	-.01	-.27^{***}	
Step 2	$F(16, 319) = 15.34^{***}$	$F(16, 319) = 14.67^{***}$	$F(16, 319) = 21.45^{***}$	Step 2	$F(16, 312) = 8.35^{***}$	$F(16, 312) = 14.59^{***}$	$F(16, 311) = 11.75^{***}$	
TMQ	Adj. $R^2 = .41^{***}$	Adj. $R^2 = .40^{***}$	Adj. $R^2 = .49^{***}$	TMQ	Adj. $R^2 = .26^{***}$	Adj. $R^2 = .40^{***}$	Adj. $R^2 = .34^{***}$	
CCM				CCM				
TMQ_Susceptibility	.06	.10	-.01	TMQ_Susceptibility	.08	.08	.15	
TMQ_Perseveration	-.01	-.08	.08	TMQ_Perseveration	-.08	.09	.21*	
TMQ_Resistance	.12	.12	.13	TMQ_Resistance	.01	.00	.10	
TMQ_Resiliency	.24^{***}	-.31^{***}	-.20^{**}	TMQ_Resiliency	.07	-.11	-.01	
TMQ_Briskness	.18^{**}	.18^{**}	.26^{***}	TMQ_Briskness	.05	.02	-.03	
TMQ_Lability	-.12*	-.04	-.06	TMQ_Lability	-.06	.10	.02	
TMQ_Steadiness	.03	-.00	.10	TMQ_Steadiness	.03	-.12	-.06	
TMQ_Permanence	.04	.01	-.14^{**}	TMQ_Permanence	.05	.10	-.24^{**}	

Table S4 continues

Table S4

Table S4 continued

	Study 1 (Polish population)				Study 2 (Ukrainian refugees)			
	Well-being	Stress	PTSD symptoms		Well-being	Stress	PTSD symptoms	
CCM_Positive emotional coping	.19**	-.16*	.05	CCM_Positive emotional coping	.03	-.12	-.13	
CCM_Optimistic action	.05	-.19*	-.18*	CCM_Optimistic action	.12	-.17*	.00	
CCM_Problem solving	.14	-.02	-.02	CCM_Problem solving	.23**	-.03	.05	
CCM_Preoccupation with the problem	.02	.03	.07	CCM_Preoccupation with the problem	.12	-.14	-.08	
CCM_Negative emotional coping	.02	.28***	.23***	CCM_Negative emotional coping	-.09	.24**	.23**	
CCM_Pessimistic passivity	-.17*	.04	.24***	CCM_Pessimistic passivity	-.18*	.29***	.23**	
CCM_Problem avoidance	.08	.05	.06	CCM_Problem avoidance	.13	-.07	.009	
CCM_Hedonic disengagement	-.02	.21**	.26***	CCM_Hedonic disengagement	.07	.02	.05	
ΔR^2	.09***	.15***	.22***		.10***	.12***	.08***	
Step 2 – Step 1								

Note: TMQ – Temperament Metadimensions Questionnaire (Strus et al., 2022); CCM – Coping Circumplex Model (Stanislowski, 2019, 2022); * $p < .05$, ** $p < .01$, *** $p < .001$.

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Table S5

Coping styles and temperament facets from temperament model as predictors of well-being stress and PTSD in regression analysis: Incremental validity

Study 1 (Polish population)				Study 2 (Ukrainian refugees)			
	Well-being	Stress	PTSD symptoms		Well-being	Stress	PTSD symptoms
Step 1 TMQ	$F(8, 327) = 20.85^{***}$ Adj. $R^2 = .32^{***}$	$F(8, 327) = 23.22^{***}$ Adj. $R^2 = .35^{***}$	$F(8, 327) = 11.65^{***}$ Adj. $R^2 = .44^{***}$	Step 1 TMQ	$F(8, 320) = 15.99^{***}$ Adj. $R^2 = .27^{***}$	$F(8, 320) = 25.96^{***}$ Adj. $R^2 = .38^{***}$	$F(8, 319) = 19.20^{***}$ Adj. $R^2 = .31^{***}$
CCM_Positive emotional coping	.25**	-.16*	.06	CCM_Positive emotional coping	.04	-.16*	-.14*
CCM_Optimistic action	.12	-.22**	-.16*	CCM_Optimistic action	.15*	-.19**	-.08
CCM_Problem solving	.14	-.10	-.13	CCM_Problem solving	.28***	-.04	.00
CCM_ Preoccupation with the problem	.08	.12	.15*	CCM_ Preoccupation with the problem	.14	-.09	-.06
CCM_Negative emotional coping	.02	.33***	.28***	CCM_Negative emotional coping	-.11	.36***	.35***
CCM_Pessimistic passivity	-.23**	.02	.23**	CCM_Pessimistic passivity	-.17*	.32***	.24**
CCM_Problem avoidance	.01	.06	.05	CCM_Problem avoidance	.12	-.06	.05
CCM_Hedonic disengagement	.13	.23**	.32***	CCM_Hedonic disengagement	.10	.03	.12
Step 2 TMQ CCM	$F(16, 319) = 15.34^{***}$ Adj. $R^2 = .41^{***}$	$F(16, 319) = 14.67^{***}$ Adj. $R^2 = .40^{***}$	$F(16, 319) = 6.73^{***}$ Adj. $R^2 = .49^{***}$	Step 2 TMQ CCM	$F(16, 312) = 8.37^{***}$ Adj. $R^2 = .26$	$F(16, 312) = 14.60^{***}$ Adj. $R^2 = .40^*$	$F(16, 311) = 11.70^{***}$ Adj. $R^2 = .34^{**}$
CCM_Positive emotional coping	.19**	-.16*	.05	CCM_Positive emotional coping	.03	-.11	-.13
CCM_Optimistic action	.05	-.19*	-.18*	CCM_Optimistic action	.11	-.17*	.00

Table S4 continues

Table S5

Table S5 continued

	Study 1 (Polish population)			Study 2 (Ukrainian refugees)		
	Well-being	Stress	PTSD symptoms	Well-being	Stress	PTSD symptoms
CCM_Problem solving	.14	-.02	-.02	.23**	-.03	.06
CCM_Preoccupation with the problem	.02	.03	.07	.12	-.14	-.09
CCM_Negative emotional coping	.02	.28***	.23***	-.09	.23**	.22**
CCM_Pessimistic passivity	-.17*	.04	.24***	-.18*	.29***	.23**
CCM_Problem avoidance	.08	.05	.06	.13	-.07	-.02
CCM_Hedonic disengagement	-.02	.21**	.26***	.07	.02	.11
TMQ_Susceptibility	.05	.10	-.01	.08	.08	.15
TMQ_Perseveration	-.01	-.07	.08	-.08	.09	.21**
TMQ_Resistance	.12	.12	.13	.01	.00	.10
TMQ_Resiliency	.24***	-.31***	-.20**	.07	-.11	-.01
TMQ_Briskness	.18**	.18**	.26***	.05	.02	-.03
TMQ_Lability	-.12*	-.04	-.06	-.05	.11	.02
TMQ_Steadiness	.03	.00	.09	.04	-.12	-.06
TMQ_Permanence	.04	.54	-.14**	.05	.10	-.24**
ΔR^2	.10***	.06***	.07***	.02	.04*	.05**
Step 2 – Step 1						

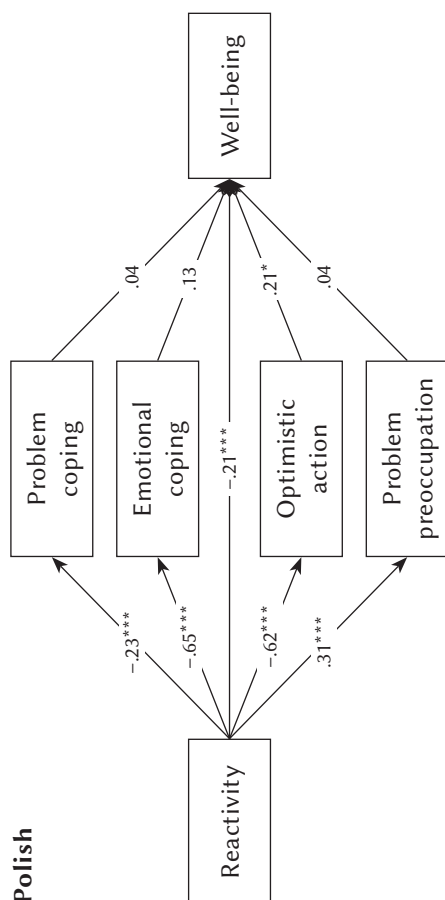
Note. TMQ – Temperament Metadimensions Questionnaire (Strus et al., 2022); CCM – Coping Circumplex Model (Stanislawski, 2019, 2022); * $p < .05$, ** $p < .01$, *** $p < .001$.

Coping as a mediator between temperament and stress-related variables

Figure S1

Mediation models of coping in the relationship between Reactivity and Well-being

Polish

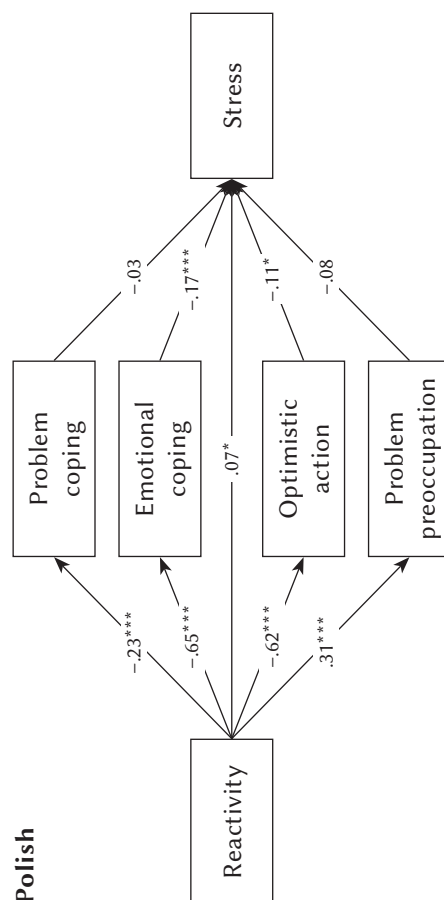


Note. * $p < .05$, *** $p < .001$.

Figure S2

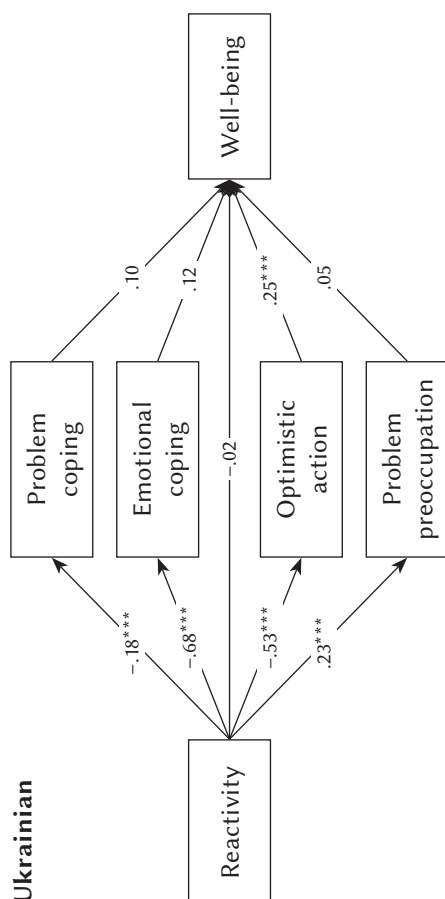
Mediation models of coping in the relationship between Reactivity and Stress

Polish



Note. * $p < .05$, *** $p < .001$.

Ukrainian



Ukrainian

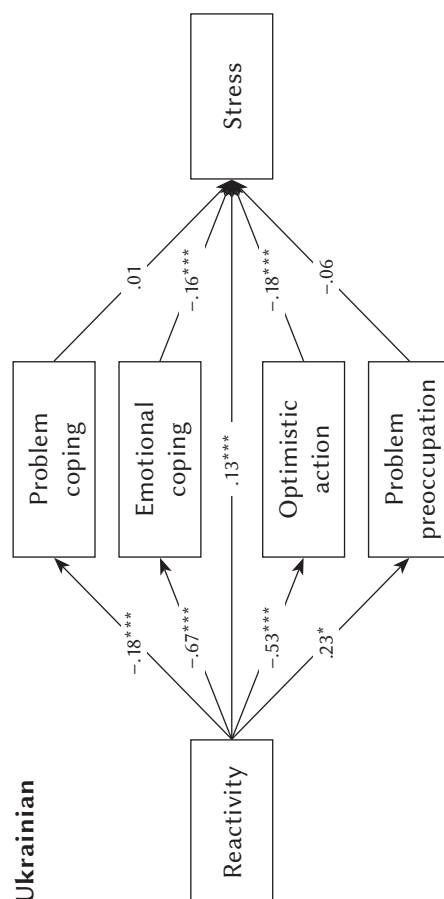
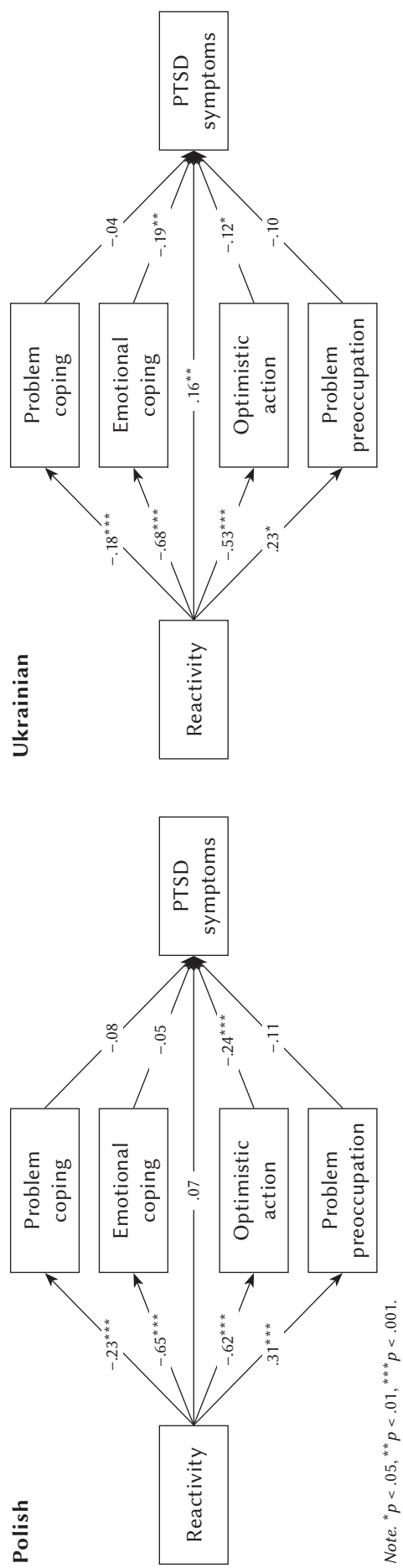


Figure S3

Mediation models of coping in the relationship between Reactivity and PTSD symptoms



*Coping
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between
temperament
and stress-related
variables*