



Self – Compassion as a Moderator on the Relationship between **Attachment Anxiety and Social Anxiety via Affective Empathy**

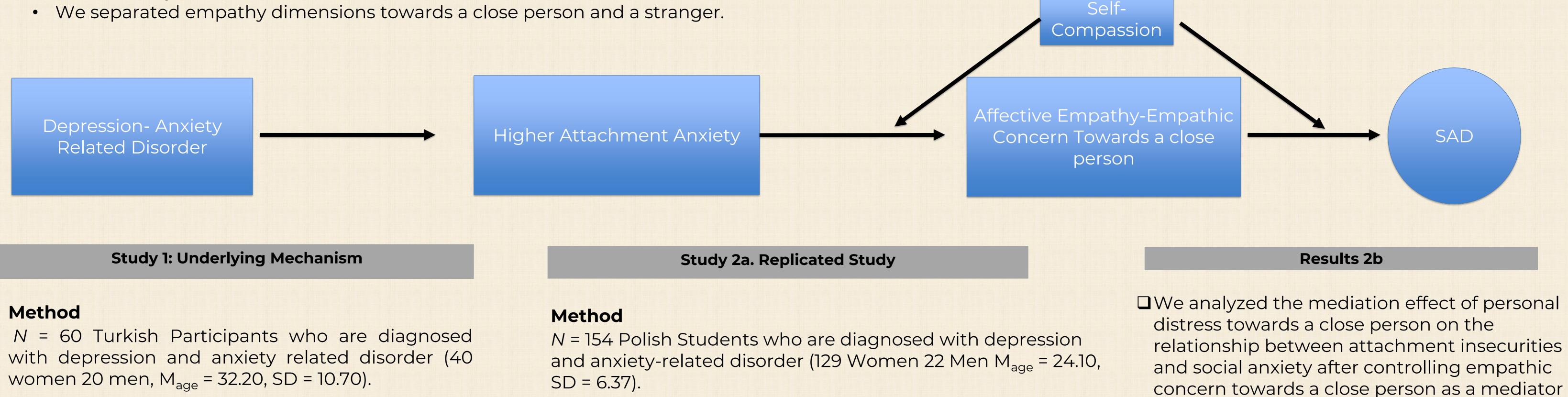
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Introduction:

- Comorbidities of social anxiety disorder include depression and other anxiety-related disorders (1).
- Higher attachment anxiety predicts depression via increased affective empathy, while higher attachment avoidance predicts depression via lower empathic concern (2).
- Higher affective empathy is associated with increased emotional interference in the Emotional Go/NoGo task, whereas in the Emotional Stroop task, higher cognitive empathy is associated with reduced emotional interference (3).
- However, little is known about how individuals with depression and anxiety-related disorders contribute to the development of social anxiety.
- In this study, we explored a socio-cognitive model integrating attachment insecurities, economic constraints, PTSD, and empathy towards both close persons and strangers. Since attachment anxiety has a stronger relationship with depression than attachment avoidance (4),
- We hypothesized that attachment anxiety would be related to affective empathy towards a close person, which in turn would result in social anxiety in patients with depression and anxiety-related disorders.
- Additionally, self-compassion regulates empathy (5) and serves as a protective factor for social anxiety (6).
- Therefore, we examined the moderating effect of self-compassion on the relationship between attachment anxiety and social anxiety via empathic concern and personal distress towards a close person.

Originality of the study:

- Attachment anxiety, economic problems, empathic concern, and affective empathy towards both a close person and a stranger are risk factors for social anxiety in a clinical sample.
- Self-compassion alleviates the adverse effect of attachment anxiety as well as the negative impact of affective empathy towards a close person on social anxiety.



Independent Variables:

Independent Variables:

- Attachment anxiety (M = 4.61 SD = 1.62) and attachment avoidance (M = 2.94 SD = 1.23)
- Post-traumatic stress disorder (M = 3.39, SD = 0.96)
- Economic constraints (M = 4.01, SD = 1.57)
- Socioeconomic status (M = 6.12 SD = 1.68)
- Personal distress CL (M = 2.55 SD = 0.62)
- Personal distress STR (M = 1.64, SD = 0.63)
- Empathic Concern CL (M = 3.41 SD = 0.61)
- Empathic Concern STR (M = 2.23 SD = 0.62)
- Perspective-Taking CL (M = 2.85 SD = 0.66)
- Perspective-Taking STR (M = 2.27 SD = 0.84)

Dependent Variable

• Social Anxiety (M = 2.13 SD = 0.96)

		Result	s 1		
		β 95% Cor Inter			
Names	β	Lower	Upper	р	ž
(Intercept)	-0.000	-0.212	0.212	<.001	L'
ANX	0.397*	0.160	0.635	0.002	
AVO	0.136	-0.102	0.375	0.256	
ECO	0.261*	0.009	0.513	0.043	
ECCL	0.379*	0.084	0.674	0.013	
PTCL	-0.206	-0.516	0.105	0.189	
PDCL	-0.164	-0.417	0.090	0.200	mar ant
ECSTR	0.132	-0.262	0.527	0.504	- EL
PTSTR	-0.128	-0.543	0.286	0.536	reality
PDSTR	0.023	-0.230	0.276	0.855	HIVICKI
SES	-0.021	-0.257	0.215	0.860	them debt
PTSD	0.148	-0.091	0.387	0.220	

- Attachment anxiety (M = 4.03 SD = 1.32) and attachment avoidance (M = 2.59 SD = 1.14)
- Socioeconomic status (M = 5.75 SD = 1.60)
- Personal distress CL (M = 2.31 SD = 0.63)
- Personal distress STR (M = 1.61 SD = 0.62)
- Empathic Concern CL (M = 3.22 SD = 0.87)
- Empathic Concern STR (M = 2.20 SD = 0.94)
- Perspective-Taking CL (M = 2.84 SD = 0.80)
- Perspective-Taking STR (M = 2.51 SD = 0.82)

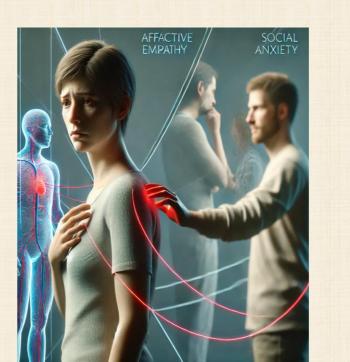
2c. Moderator:

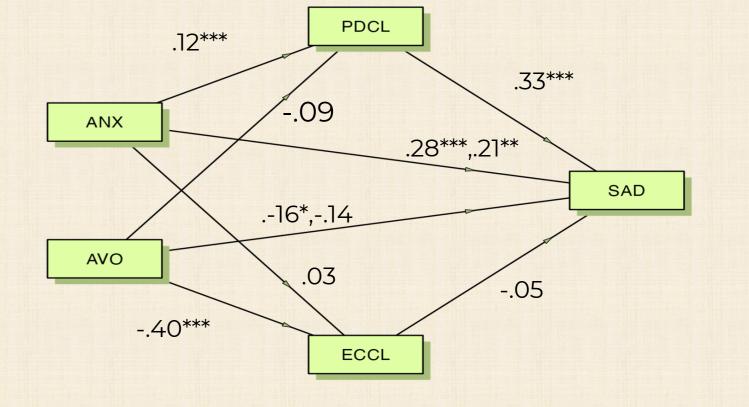
Self-compassion (M = 2.70 SD = 0.64)

Dependent Variable

• Social Anxiety (M = 3.10, SD = 0.74)

	F	Results 2a		
		β 95% Cor Inter		
Names	β	Lower	Upper	р
(Intercept)	-0.000	-0.149	0.149	<.001
ANX	0.200*	0.039	0.361	0.015
AVO	-0.131	-0.314	0.052	0.160
ECCL	-0.008	-0.245	0.228	0.944
PTCL	-0.085	-0.305	0.136	0.448
ECSTR	-0.001	-0.217	0.214	0.991
PTSTR	0.118	-0.079	0.316	0.239
PDCL	0.248*	0.072	0.424	0.006
PDSTR	0.055	-0.138	0.248	0.573





	95% C.I. (a)		
	β	Lower	Upper
$ANX \Rightarrow PDCL \Rightarrow SAD$.04	.01	.07
$ANX \Rightarrow ECCL \Rightarrow SAD$	001	01	0.01
$AVO \Rightarrow PDCL \Rightarrow SAD$	03	06	.004
$AVO \Rightarrow ECCL \Rightarrow SAD$.02	04	.08

Results 2c

We explored the moderation effect of self-compassion on the relationship between attachment anxiety and social anxiety via affective empathy towards a close person.

-.12

-.00

.03

-.04

-.07

Upper

-.01

.11

.16

.10

.002

Lower

-.23

-0.12

-10

-.18

-.14



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Conclusion

- Attachment anxiety, economic constraints, and empathic concern towards a close person are main predictors of social anxiety.
- Economic problems can lead to attachment anxiety which might influence a relationship with a close person result in social anxiety.

Conclusion

In this study, we replicated that attachment anxiety predicted social anxiety with affective empathy towards a close person, while empathic concern did not predict social anxiety in Polish sample.



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- 2) Yan, Z., Zhu, X., Zhou, K., Deng, Q., & Zeng, X. (2022). The Mediating Role of Affective Empathy in the Relationship Between Insecure Attachment and Depressive Symptoms Among Emerging Adult. Journal of adult development, 29(4), 279–286. https://doi.org/10.1007/s10804-022-09402-x
- 3) Thompson, N. M., van Reekum, C. M., & Chakrabarti, B. (2022). Cognitive and affective empathy relate differentially to emotion regulation. Affective Science, 3(1), 118-134. https://doi.org/10.1007/s42761-021-00062-w
- 4) Dagan, O., Facompré, C. R., & Bernard, K. (2018). Adult attachment representations and depressive symptoms: A meta-analysis. Journal of affective disorders, 236, 274–290. https://doi.org/10.1016/j.jad.2018.04.091
- 5) Malcom D. R. (2019). The Critical Role of Self-Compassion and Empathy in Well-Being. American journal of pharmaceutical education, 83(10), 7784. https://doi.org/10.5688/ajpe7784
- 6) Slivjak, E. T., Al Majid, F., Wrigley, J., Russell, S., Zielony, L., & Arch, J. J. (2024). Self-Compassion and Social Anxiety: A Scoping Review. Mindfulness, 15(10), 2448-2472.

Moderator	Interactio n	
SC	ANX:SC ⇒ PDCL	
	AVO:SC ⇒ PDCL	
	ANX:SC ⇒ SAD	
	AVO:SC ⇒ SAD	
	SC:PDCL ⇒ SAD	

- SAD

Discussion

- General For individuals with **attachment anxiety**, therapeutic approaches supporting **affective** empathy towards a close person and self-compassion can be a protective factor to develop SAD.
- **Social assistance** and **support programs** can be implemented to mitigate the effects of economic hardships on mental health.

□ Note. We used chat GPT to create images.