


Nunes, K. L., & Pechorro, P. (2024, July 29-August 2). Development and validity of a European-Portuguese adaptation of the Evaluation of Violence Questionnaire (EVQ). In K. L. Nunes (Chair), *Measurement and correlates of attitudes toward violence* [Symposium]. International Society for Research on Aggression World Meeting, Munich, Germany.

Development and Validity of a European-Portuguese Adaptation of the Evaluation of Violence Questionnaire (EVQ)

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Violent Attitudes

- How negatively or positively one views violence
- Theory and evidence suggest that violent attitudes are relevant for the explanation, prediction, and reduction of violent behavior




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Evaluation of Violence Questionnaire (EVQ)

- Designed to measure men's attitudes toward their own actual or hypothetical violence against other men
- 17 items
- "You hitting (for example, punching or kicking) a guy who tries to make you look stupid"


Very bad	A bit bad	A bit good	Very good
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EVQ Psychometric Properties


- High internal consistency and test-retest reliability
- One-factor structure
- Some evidence of validity
 - Experimental
 - Correlated with other violent attitude measures
 - Correlated with violent and aggressive behavior



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Current Study

- Developed a European-Portuguese version of the EVQ
- Tested the reliability, factor structure, equivalence, and convergent/divergent validity of the Portuguese and original EVQ



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Measures

- EVQ
- Physical Aggression Scale of the Short Form of the Aggression Questionnaire (PA-AQ-SF)
- Reactive-Proactive Aggression Questionnaire (RPQ)
- Brief Self-Control Scale (BSCS)
- Rosenberg Self-Esteem Scale (RSES)



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European-Portuguese Measures

- Followed best practice guidelines for adapting measures for other languages/cultures to create a European-Portuguese version of the EVQ
- Used existing European-Portuguese adaptations of the other measures (Pechorro et al., 2011, 2016, 2017, 2020)

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Hypotheses

- High internal consistency
- One-factor structure
- Measurement invariance
- Correlations ordered from strongest to weakest as follows:
 - Overall aggression and reactive aggression
 - Proactive aggression
 - Self-control
 - Self-esteem

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Participants

- Online panels of men who met inclusion criteria (attention, data quality, and language)
 - Canada: $N = 298$
 - Portugal: $N = 320$

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High Internal Consistency of EVQ

	α	ω	ITC	MII
Total sample	.94	.96	.49 - .76	.48
Canadian sample	.95	.96	.53 - .77	.51
Portuguese sample	.94	.96	.43 - .76	.46

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One-Factor Model Fit Both EVQ Versions

	IFI	CFI	RMSEA (90% CI)
Total sample	.99	.99	.07 (.07, .08)
Canadian	.99	.99	.08 (.07, .09)
Portuguese	.99	.99	.07 (.06, .08)
Good fit indicated by...	$\geq .95$	$\geq .95$	$\leq .06$

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High Factor Loadings for Both EVQ Versions

- Total sample: .57-.86
- Canadian: .59-.87
- Portuguese: .51-.84

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Cross-Country Measurement Invariance of the EVQ One-Factor Model

	SB χ^2 (df)	Δ SB χ^2 (df)	CFI	RMSEA (90% CI)
Canada vs Portugal				
Configural (no constraints)	669(238)	--	.99	.08 (.07, .08)
Weak (metric invariance)	682(254)	7.77(16) ^{ns}	.99	.07 (.07, .08)
Strong (scalar invariance)	684(255)	11.33(17) ^{ns}	.99	.07 (.07, .08)

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Convergent and Divergent Validity for Both EVQ Versions

	PA-AQ-SF	RPQ total	RPQ Reactive	RPQ Proactive	BSCS	RSES
Total sample	.52	.48	.47	.38	-.19	-.11
Canadian sample	.55	.52	.52	.41	-.23	-.17
Portuguese sample	.47	.44	.42	.32	-.11	.002

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Discussion


- Results were as hypothesized
 - High internal consistency
 - One-factor structure
 - Cross-country measurement invariance
 - Convergent/divergent validity



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Future Directions


- Representative samples
- Nomological network
- Proactive/instrumental violence
- Other languages/cultures and genders



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Conclusion

- Results support the reliability, factor structure, equivalence, and validity of the European-Portuguese and original version of the EVQ



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Thank You

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