ASSOCIATED FACTORS OF PLAYING VIDEO GAMES AS EXPERIENTIAL AVOIDANCE IN ADOLESCENCE

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Introduction

- Roblematic video game playing (PVGP) may be understood as playing that leads to impairment in different dimensions of life (Van Rooij et al., 2017).
- PVGP in adolescents has been found to be associated with an array of mental and behavioral problems such as anxiety, depression, hyperactivity, and inattention (Mihara & Higuchi, 2017).
- 🙈 Escapism is the use of online environment as a way to forget and avoid thinking of real life problems has been found to be one of the motivations associated with problematic playing (Kardefelt-Winther, 2014; Yee, 2006).
- 🙈 Escapism, used in the field of research on video game playing, is highly compatible with the concept of experiential avoidance (EA), used in Acceptance and Commitment Therapy (ACT).

Objective

🙈 The aim of the present study was to assess whether sociodemographic factors, drug use, bullying victimization and perpetration, and mental health symptoms were associated with playing video games, with the intent to alleviate problems among Brazilian eighth grade students.

Methods

- A cross-sectional survey nested in a cluster randomized controlled trial was used.
- The participants included 3,939 eighth grade students who answered a self-report questionnaire anonymously.
- B Weighted logistic regressions were used to investigate the associated factors.

Results

The results showed that 57% adolescents reported playing a Playing to forget about problems is associated with being male, using tobacco, bullying victimization and perpetration, healthy levels of prosocial behavior, and emotional symptoms; the strongest association was with emotional symptoms (OR=1.98; 95% CI 1.73;2.28).

Table 1. Logistic regression estimates for playing video games to forget about problems during the year prior to the according to sociodemographic variables, drug use, bullying, and abnormal level mental health problems (SDQ) (crude and adjusted odds ratios).

		Play video games to forget problems (N=3,658)						
	L	Univariate regression			Multivariate regression			
	cOR	95%IC	p-value	aOR	95%IC	p-value		
Boys (ref. Girls)	1.48	[1.33; 1.64]	<0.001	1.96	[1.75; 2.20]	<0.001		
Age	0.98	[0.84; 1.14]	0.789	-	-	-		
SES (ref. D/E)								
С	0.97	[0.87; 1.07]	0.497	-	-	-		
В	1.16	[1.01; 1.34]	0.037	-	-	-		
А	1.35	[1.02; 1.80]	0.037	-	-	-		
Tobacco use (ref. no)	1.88	[1.54; 2.31]	<0.001	1.59	[1.27; 1.98]	<0.001		
Alcohol use (ref. No)	1.29	[1.18; 1.41]	<0.001	-	-	-		
Bullying Perpetration (ref. No)	1.66	[1.51; 1.83]	<0.001	1.35	[1.19; 1.54]	<0.001		
Bullying Victimization (ref. No)	1.89	[1.75; 2.05]	<0.001	1.63	[1.44; 1.83]	<0.001		
Hyperactivity/ Inattention (ref. No)	1.58	[1.38; 1.80]	<0.001	1.31	[1.33; 1.52]	<0.001		
Prossocial Behavior (ref. Yes)	1.58	[1.30; 1.92]	<0.001	1.75	[1.54; 1.98]	<0.001		
Conduct Problems (ref. No)	1.36	[1.22;1.53]	<0.001	-	-	-		
Peer Relationship Problems (ref. No)	1.42	[1.18; 1.70]	<0.001	-	-	-		
Emotional Symptoms (ref. No)	2.08	[1.83;2.37]	<0.001	1.98	[1.73; 2.28]	<0.001		

Conclusion

- 🔊 Playing video games as a form of EA has been shown to be a relevant aspect for investigation among this population, as it is related to mental health symptomatology in adolescence.
- 🙈 Understanding PVGP through an ACT lens may help in the development of interventions that can target PVGP and its comorbidities simultaneously.

0	(CI=55.85;	58.15)	of	these
as	a form of EA			

Table 2. Distribution of adolescents that play video games to forget about problems according to sociodemographic variables, drug use, bullying, and abnormal level mental health problems (SDQ).

	Play video games to forget problems (N=3,658)							
	No (N=1,573)				Yes (N=2,085)			
	Ν	%	95%CI	Ν	%	95%CI	p-value	
Sex								
Boys	664	38.19	[36.3;40.11]	1089	61.81	[59.89;63.7]	<0.001	
Girls	869	47.71	[46.19;49.23]	996	52.29	[50.77;53.81]		
Age								
12 a 14	1393	43.04	[41.96;44.13]	1899	56.96	[55.87;58.04]	0.789	
15 a 17	123	43.55	[39.55;47.64]	162	56.45	[52.36;60.45]		
SES								
А	51	36.61	[30.89;42.73]	90	63.39	[57.27;69.11]	0.002	
В	365	40.31	[37.86;42.80]	549	59.69	[57.20;62.14]		
С	859	44.77	[43.11;46.45]	1107	55.23	[53.55;56.89]		
D/E	262	43.91	[41.96;45.87]	342	56.09	[54.13;58.04]		
Tobacco use								
No	1463	43.84	[42.71;44.98]	1922	56.16	[55.02;57.29]	<0.001	
Yes	70	29.30	[25.16;33.81]	169	70.70	[66.19;74.84]		
Alcohol use								
No	1077	45.18	[43.92;46.44]	1315	54.82	[53.56;33.81]	<0.001	
Yes	461	39.04	[37.12;40.99]	779	60.96	[59.01;62.88]		
Bullying Perpetration								
No	1186	46.22	[44.94;47.50]	1410	53.78	[52.50;55.06]	<0.001	
Yes	330	34.08	[32.19;36.01]	666	65.92	[63.99;67.81]		
Bullying Victimization								
No	989	49.73	[48.23;51.23]	1020	50.27	[48.77;51.77]	<0.001	
Yes	533	34.30	[32.98;35.64]	1066	65.70	[64.36;67.02]		
Hyperactivity/ Inattention								
Absent	1299	44.74	[43.42;46.07]	1644	55.26	[53.93;56.58]	<0.001	
Present	202	33.95	[31.34;36.66]	408	66.05	[63.34;68.66]		
Prosocial Behavior								
Normal	1231	41.43	[40.22;42.66]	1795	58.57	[57,34;59.78]	<0.001	
Problematic	243	52.53	[49.64;55.40]	224	47.47	[44.60;50.36]		
Conduct Problems								
Absent	1241	44.39	[43.05;45.74]	1592	55.61	[54.26;56.95]	<0.001	
Present	262	36.95	[34.63;39.34]	464	63.05	[60.66;65.37]		
Peer Relationship Problems								
Absent	1326	43.90	[42.55;45.25]	1759	56.10	[54.75;57.45]	<0.001	
Present	172	35.60	[31.94;39.45]	293	64.40	[60.55;68.06]		
Emotional Symptoms								
Absent	1295	46.17	[44.78;47.56]	1540	53.83	[52.44;55.22]	<0.001	
Present	206	29.19	[26.90;31.59]	514	70.81	[68.41;73.10]		

References

https://doi.org/10.1016/j.chb.2013.10.017 use. Clinical Neuropsychiatry, 14(1), 113–121. Behavior, 9(6), 6



- Kardefelt-Winther, D. (2014). Problematizing excessive online gaming and its psychological predictors. Computers in Human Behavior, 31, 118-122.
- Mihara, S., & Higuchi, S. (2017). Cross-sectional and longitudinal epidemiological studies of Internet gaming disorder: A systematic review of the literature. Psychiatry and Clinical Neurosciences, 71(7), 425–444.
- Van Rooij, A. J., Ferguson, C. J., Van de Mheen, D., & Schoenmakers, T. M. (2017). Time to abandon Internet Addiction? Predicting problematic Internet, game, and social media use from psychosocial well-being and application
- Yee, N. (2006). Motivations for Play in Online Games. CyberPsychology &