

PREVALENCE OF SELF-REPORTED CONSTIPATION AND ASSOCIATED FACTORS IN GENERAL ADULT BRAZILIAN POPULATION

Vera Lúcia Conceição de Gouveia Santos; Fernanda Mateus Queiroz Schmidt; Rita de Cássia Domansky; Mariana Alves Bandeira; Mariana Alves de Melo Tenório; Elaine Barros, School of Nursing, University of São Paulo, Brazil



BACKGROUND

prevalence Literature about constipation is scarce in Latin American According countries¹. self-report, to constipation is characterized by subjective • Higher complaints influenced by cultural customs²

AIM

constipation factors reported and associated to this occurrence in adults in the urban population of a Southern city in Brazil.

METHODS

- Design: Epidemiological, descriptive, exploratory and cross sectional study type; secondary study (data from Domansky & Santos, 2010³)
- Setting: Urban area of Londrina city, Paraná, Brazil
- Participants: 2162 adults, aged 18 or selected living the in over, streets through cluster sampling
- Tools for data collection: Socialdemographics data; Brazilian adapted and validated version of The Bowel Function in the Community⁴
- Main outcome measures: Prevalence of self-reported constipation; SOCIOdemografic and clinical variables related to constipation
- Statistical Univariate analysis: Multivariate analysis; logistic (Adjusted Odds Ratio – regression AOR); p < 0.05.
- Multivariate analysis models: model with all constipated individuals; and two stratified models for gender.

RESULTS/FINDINGS

- prevalence reported of selfconstipation was 25.2%.
- (37.2%)women among compared to men (10.2%).
- The variables higher age and stroke To estimate the prevalence of self- were statistically significant in all three tested statistical models.

Table 1: AOR and Cl95% for association between socio-demografic and clinical variables and constipation.

	AOR										
Variables	AOR	IC (95%)									
		Low	Up								
Socio –demografic Variables											
	White	1.0	-	-							
	Yellow	0.2	0.1	0.7							
Ethnicity	Brown	1.0	0.7	1.4							
	Black	1.1	0.7	1.7							
	Other	1.2	8.0	1.8							
Gender	Male	1.0	-	-							
	Female	4.8	3.7	6.1							
Age	(14.45]	1.0	-	-							
	(45.60]	0.6	0.5	8.0							
	(60.75]	0.9	0.6	1.3							
	(75.100]	1.8	1.0	3.2							
Clinical Variables											
Fistula	No	1.0	-	-							
riotaia	Yes	2.8	1.1	7.8							
Anal Fissure	No	1.0	-	-							
/ trial i locaro	Yes	1.8	1.1	3.0							
Anorectal surgery	No	1.0	-	-							
Andrectal Surgery	Yes	2.1	1.1	3.9							
Trauma or wound	No	1.0	-	-							
around the anus	Yes	2.6	1.1	5.9							
Hemorrhoids	No	1.0	-	-							
петнопнова	Yes	1.8	1.3	2.5							
Nervous System	No	1.0	-	_							
Disease	Yes	1.5	1.1	2.0							
Stroke	No	1.0	-	-							
	Yes	3.9	1.6	9.6							

Table 2: AOR and CI 95% for association variables, constipation between and according to gender.

			Male			F	Female		
Variables		AOR		AOR					
		^ O D	IC (IC (95%) Low Up		IC (95%) Low Up			
			AOR	Low	Up	AOR	Low	Up	
	So	cio	– den	nogra	fic Var	iables			
Ethnicity	Whit	e				1,0	-	-	
	Yellow					0,2	0,0	0,6	
	Brown			NS		1,0	0,6	1,5	
	Black					1,2	0,8	2,0	
	Othe	er				1,3	0,8	2,2	
Age	(14,4	45]	1,0	-	-	1,0	-	-	
	(45,6	60]	1,0	0,5	1,8	0,6	0,4	0,8	
	(60,75]		2,1	1,1	3,8	0,7	0,5	1,1	
	(75,	-	7,6	3,3	16,9	0,7	0,3	1,5	
			Clinic	al Var	iables				
Rectocele		No				1.0	-	-	
		Yes	5	NA		10.2	1.6	195.3	
Anal Fissure		No				1.0	-	-	
		Yes	3	NS		2.5	1.4	4.3	
Anorectal Surgery		No				1.0	-	-	
		Yes	3	NS		2.6	1.2	5.5	
Trauma / wound around the anus		No				1.0	-	-	
		Yes	3	NS		3.2	1.2	8.8	
Hemorrhoids		No				1.0	-	-	
		Yes	6	NS		1.9	1.4	2.7	
Nervous System Desease		No	1.0	-	_	_	-	-	
		Yes	2.7	1.5	4.6	-	NS		
Strok	Stroke		1.0	_	_	1,0	-	-	
		Yes	6.0	1.4	22.9	3.9	1.4	11.6	

NS = Not significant / NA = Not applicable

CONCLUSIONS

similar International literature shows prevalence rates compared to these results¹⁻³. On the other hand, the present study shows some associated variables (anorrectal diseases and neurological system disease) which have not been often analyzed in other population-based studies about constipation^{5 – 6.}

REFERENCES

- 1. Bharucha A, Pemberton J, Locke G. American Gastroenterological Association technical review on constipation. Gastroenterology. 2013;144 (1): 218-38.
- 2. Sanchez MI, Bercik P. Epidemiology and burden of chronic constipation. Can J Gastroenterol. 2011;25(Suppl B):11B 15B.
- 3. Domansky RC, Santos VLCG. Prevalence of bowel habits in the general community: a pilot study. In: 17th Biennial Congress of the World Council of Enterostomal Therapists, 2008, Eslovênia. Proceedings of the 17th World Council of Enterostomal Therapists, 2008. p. 358.
- 4. Domansky R, Santos VLCG. Cross Cultural adaptation and validation of the Bowel Function in the Community. Toll to Brazil Rev Esc Enferm USP. 2009;43(Esp):1114-29.
- 5. Schmidt FMQ, Santos VLCG. Prevalence of constipation in the general adult population: an integrative review. J Wound Ostomy Continence Nurs. 2014;41(1):70-6.
- 6. Jun DW, Park HY, Lee OY, et al. A population-based study on bowel habits in a Korean community: prevalence of functional constipation and self-reported constipation. Dig Dis Sci. 2006;51(8):1471-7.