

Background & objectiv

•Vegetable and fruit consumption have been found to be ass non-communicable diseases, overweight, and obesity in a into later life

 Many children worldwide do not meet recommendations for v particularly socially disadvantaged children

 Previous studies focused on SES as a one-dimensional aspec aspect that entails several related indicators

Therefore we investigated associations of **SES indicators** (Padeprivation, financial difficulties and neighborhood SES) and **e vegetable** and low **fruit** consumption



Setting and participants

This cross-sectional study used data from 5,010 *p*arents of 4-12 year olds participated who in a Dutch public health survey in 2018.

Data linked with data on neighborhood SES from the Netherlands Institute for Social Research.

Measures

- Exposure variaSocioeconom
- indicators;
 - -.parent
 - -financia
 - -neighb
- Ethnic backgr



INDEPENDENT ASSOCIATIONS OF SOCIOECONOMIC STATUS INDICATORS AND ETHNIC BACKGROUND WITH LOW VEGETABLE AND FRUIT CONSUMPTION IN 4-12 YEAR OLDS: A CROSS-SECTIONAL STUDY

Mirte Boelens^{*1}, Hein Raat¹, Anne I Wijtzes¹, Gea M Schouten², Dafna A Windhorst¹, Wilma Jansen^{1,3}

¹ Department of Public Health, Erasmus University Medical Center, PO box 2040 3000 CA Rotterdam, the Netherlands. ² Department of Research and Business Intelligence, Municipality of Rotterdam, PO box 21323, 3001 AH Rotterdam, the Netherlands. ³ Department of Social Development, Municipality of Rotterdam, PO box 70032 LP, Rotterdam, the Netherlands

ve			
sociated with a adults & eating b	reduced risk of behaviors may track	 Lower/interbackground consumption 	ermediate parnd, and a low
egetable and fi	ruit consumption;	 Material deprivation an independently associat 	
ct while SES is multidimensional		 important for researcher clues to multiple potent inequalities in vegetabl 	
arental educatio thnic backgrou	n, material and with low		
			Results
Multile	vel multivariable log	jistic regress	ion
OR (95% CI) (2.95-3.07) Lower parental education			1.68 (1.3
(1.54-2.17) intermediate parental education			n 1.39 (1.12
(1.19-1.76) Material deprivation 1.63			
(0.93-1.45) Fin	ancial difficulties		0.96 (0.72
(1.04-1.58) Lo \	wer NSES		0.90 (0.6
(1.66-2.26) NO	n-Western ethnic	backgrour	nd 1.11 (0.93
			Nethods
	Outcome variables	5	Statistical a
bles	 Low vegetable co 	onsumption	Missing data
IC STATUS	(≤4 days a week)		heighborhoc
al education	consumption (<4	davs a	consumption
al deprivation	week)		
al difficulties			In additional
orhood SES	Confounding va	ariables	consumptior
ound	 Age, sex and fam 	nilv status	





analysis

a on covariates were imputed. Multilevel multivariable logistic regression analysis with a random intercept for od and fixed slopes to examine associations of SES indicators and ethnic background with low vegetable and sumption. Median odds ratio (MOR) to quantify the magnitude of the variation in vegetable and fruit n that is explained by the neighborhood level.

I analyses multiple interactions were tested and as sensitivity analyses non-daily vegetable and fruit n were used as outcome measures.

Complete-case analyses produced the same results (N= 3,946).

Take home message

- These results suggest distinct pathways of different SES indicators and ethnic background in vegetable and fruit consumption in children.
- In order to improve vegetable and fruit consumption in children all these pathways need to be considered.

Additional analyses

- No interaction effects found
- Complete case analyses yielded similar results
- Sensitivity analyses using non-daily vegetbale anf fruit consumption yielded similar results