brought to you by

T CORE





Optimistic self-assessments of unhealthy diets are associated with positive indicators of health and health behaviours in Danish adults.

Sørensen, Mette Rosenlund; Matthiessen, Jeppe; Holm, L.; Knudsen, Vibeke Kildegaard; Andersen, Elisabeth Wreford; Tetens, Inge

Publication date: 2016

Document Version Publisher's PDF, also known as Version of record

Link back to DTU Orbit

Citation (APA):

Sørensen, M. R., Matthiessen, J., Holm, L., Knudsen, V. K., Andersen, E. W., & Tetens, I. (2016). Optimistic self-assessments of unhealthy diets are associated with positive indicators of health and health behaviours in Danish adults.. Poster session presented at 11th Nordic Nutrition Conference 2016, Gothenburg, Sweden.

DTU Library

Technical Information Center of Denmark

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.



Optimistic self-assessments of unhealthy diets are associated with positive indicators of health and health behaviours in Danish adults

Sørensen MR¹, Matthiessen J¹, Holm L², Knudsen VK¹, Andersen EW³, Tetens I¹

- ¹ National Food Institute, Technical University of Denmark
- ² Department of Food and Resource Economics, University of Copenhagen
- ³ Department of Applied Mathematics and Computer Science, Technical University of Denmark

Background and aim

Optimistic self-assessments of unhealthy diets have been suggested as a potential barrier to the promotion of healthier eating practices. The aim of this study was to examine the extent to which Danish adults with unhealthy diets assess the healthiness of their diets optimistically and to examine socio-demographic, health and behaviour characteristics associated with this optimistic self-assessment.

Methods

- Cross sectional analysis including 3014 adults (18-75 y) (M:1464, W:1550)
- Data derived from The Danish National Survey of Diet and Physical Activity 2011-2013 (seven-days pre-coded food diaries, structured face-to-face interviews, anthropometric measures)
- A diet index on saturated fat, added sugar, fruits and vegetables, fish and wholegrain was applied to divide individuals into tertiles of healthy, somewhat healthy and unhealthy diets
- Estimated diet quality was compared with individuals' selfassessed diet healthiness (to a high degree healthy, to some degree healthy and not healthy)
- Optimistic self-assessment was defined as being among the lowest tertile 'unhealthy diets' and assessing own diets as healthy to a high degree (highly optimistic) and to some degree (somewhat optimistic)
- Logistic regression models were used to examine characteristics associated with optimistic self-assessments of unhealthy diets

	Self-assessed diet healthiness				
	To a high degree healthy	To some degree healthy	Not healthy		
Estimated diet index score, lowest tertile	Highly optimistic self-assessment	Somewhat optimistic self-assessment	Realistic self- assessment		

Figure 1. Classification of self-assessments of unhealthy diets

Results

Among individuals with unhealthy diets, 13 % assessed their diets as healthy to a high degree, 42 % to some degree and 45 % were realistic about their unhealthy diets. Optimistic self-assessments of unhealthy diets were associated with increasing age, excellent self-rated health, normal weight and a moderate physical activity level.

Table 1. Factors significantly associated with optimistic self-assessments among adults with unhealthy diets^a (diet index score <3.01) (outcome variable: highly optimistic vs. realistic) (Total N=3014, active n=497)

		OR	95% CI	P-value ^b
Age				<0.001
	18-24	0.05	0.02-0.15	<0.001
	25-44	0.14	0.07-0.27	<0.001
	45-64	1.00		
	65-75	2.84	1.42-5.69	0.003
Self-rated				0.004
health	Excellent	1.00		
	Very good	0.36	0.19-0.69	0.002
	Good	0.34	0.17-0.65	0.001
	Fair/poor	0.56	0.24-1.30	0.177
Weight				<0.001
status	Normal weight ^c (BMI <25)	1.00		
	Overweight (BMI 25 - <30)	0.40	0.23-0.71	0.002
	Obese (BMI ≥30)	0.11	0.05-0.24	<0.001
Physical				0.037
activity,	Vigorous	0.49	0.14-1.78	0.281
leisure	Moderate	1.00		
time	Light	0.48	0.27-0.85	0.011
	Sedentary	0.36	0.15-0.83	0.017

^a Included factors: gender, age, education, income, weight status, abdominal weight status, self-reported high cholesterol, self-rated health, slimming diet, self-assessed leisure time physical activity, smoking habits. Age and education were kept in the model

Conclusions

A considerable percentage of Danish adults with unhealthy diets were optimistic about the healthiness of their diets. This tendency was more likely among older adults and adults with positive indicators of health and health behaviours. In the promotion of dietary health, it is important to acknowledge differences in dietary health assessments among lay people and nutrition professionals. Possible reasons for optimistic self-assessments should be further explored.

^b Tested using logistic regression (P<0.05) ^c 1 % was underweight (BMI <18.5)