











Obesity as an exposure or an outcome in epidemiological research: a summary of results from the French NutriNet-Santé cohort

Pauline Duquenne¹, Junko Kose¹, Léopold K. Fezeu¹, Julia Baudry¹, Emmanuelle Kesse-Guyot¹, Chantal Julia^{1,2}, Pilar Galan¹, Sandrine Péneau¹, Jean Michel Oppert^{1,3}, Serge Hercberg^{1,4}, Mathilde Touvier¹, Valentina A. Andreeva¹

¹Sorbonne Paris Nord University, Inserm U1153, Inrae U1125, Cnam, Nutritional Epidemiology Research Team (EREN), Epidemiology and Statistics Research Center— University of Paris (CRESS), Bobigny, France ²Public Health Department, Avicenne Hospital (AP-HP), Bobigny, France

³Sorbonne University, Department of Nutrition, Pitié-Salpétrière Hospital (AP-HP), Institute of Cardiometabolism and Nutrition (ICAN), Paris, France ⁴Department of Public Health, AP-HP Paris Seine-Saint-Denis Hospital System, Bobigny, France

Contact:

p.duquenne@eren.smbh.univparis13.fr



nutrition

INTRODUCTION

NutriNet-Santé e-cohort

- Launched in 2009, >170 000 enrolments
- Participants are adults aged >18, with Internet access and able to follow a French protocol
- Aims to explore the relationship between health and

Obesity

- Chronic and progressive disease
- Global: 13% obese adults¹ / France: 17%²
- It is crucial to better understand the risk factors,

consequences in order to prevent the disease

<u>Objective</u>

Show how the French NutriNet-Santé cohort has contributed at the national and global level to the knowledge on obesity, as an outcome or an exposure

METHODS

Criteria for inclusion of articles

Strong a priori hypothesis about obesity, obesity as outcome, exposition or moderator variable

Criteria for exclusion of articles

Obesity as an adjustment variable, deal with overweight

Presented results

Results from fully-adjusted models

RESULTS

Obesity as an outcome

Protective factors

Dietary behaviors (healthy pattern, organic food, meal planning, intuitive eating, adherence to nutritional recommendations, sustainable diet, liking for sweet, preparation from scratch)

Psychological factors (optimism, mindfulness, mind-body)

Deleterious factors

Dietary behaviors (ultraprocessed food, liking for fat and salt, emotional eating)

Psychological factors (impulsivity)

Other (urban context)

RESULTS

- 28 articles: 22 as an outcome (15 cross-sectional, 7 prospective studies), 7 as an exposure (cross-sectional), 1 as a moderator variable (cross-sectional)
- 6,352 to 110,260 participants
- >70% women
- Innovative topics

Obesity as an exposure

Protective factor

Acute insomnia (in men)

Deleterious factors

Napping, migraine, functional dyspepsia, chronic insomnia (in women)

Obesity as a moderator

Obesity did not moderate the association between total sleep time and body weight change

CONCLUSION

In the 28 NutriNet-Santé studies, obesity has been differentially associated, usually cross-sectionally, with a variety of diet-related factors and psychological traits

REFERENCES