BEISPIELSTUDIE

The role of satiety mechanisms in genetic risk of obesity

KATEGORISIERUNG

Gattung Forschungsprojekt mit lebenden Personen

Art

Nicht als klinischer Versuch geltendes Forschungsprojekt (i.d.R. Beobachtungsstudie)

Unterart

BACKGROUND

Obesity is heritable, and researchers are identifying the specific genes involved. Discovering the mechanisms through which obesity-related genes influence weight will help pinpoint novel targets for intervention. This study tested the hypothesis that satiety responsiveness is an intermediate behavioural phenotype associated with genetic predisposition to obesity in children.

METHODS

This was a population-based twin birth cohort that included twins born in 1996 (National Twins Cohort). Participants were children, one randomly selected child from each twin pair. Buccal swabs were used to extract DNA. Genome-wide genotyping was done with SNP array using a standard experimental protocols. A polygenic risk score (PRS) comprising 28 common obesity-related single-nucleotide polymorphisms identified in a metaanalysis of obesity-related genome-wide association studies was created. The primary outcome was the association between the PRS, adiposity, and satiety responsiveness.

SOURCE

http://www.ncbi.nlm.nih.gov/pubmed/24535189

CATEGORISER-FRAGEN

Fällt das Forschungsprojekt in den Geltungsbereich des Humanforschungsgesetzes? ${\sf J}_a$

BECAUSE

This project was based on a study protocol that defined the exact procedures to be used. It included a relatively large number of persons and was not based on individual cases ("method-driven search for generalizable knowledge", defined as research by HRA). We included children ("persons"), one per twin pair, born in 1996. We collected DNA from buccal swaps for genome-wide genotyping ("genetic data"). We examined the association between the polygenic risk score (PRS), adiposity, and satiety responsiveness ("research concerning the structure and function of the human body").

Handelt es sich bei dem Forschungsprojekt um ein Projekt mit lebenden Personen?

Ja

BECAUSE

We selected one child randomly from a set of twin pairs ("persons") and included them in this study.

Handelt es sich bei dem Forschungsprojekt um einen klinischen Versuch im Sinne der KlinV oder der KlinV-Mep?

Nein

BECAUSE

We collected DNA from buccal swaps of children for genome-wide genotyping. Buccal swaps were a procedure to collect the data. We sought to determine the association between polygenic risk score (PRS), adiposity, and satiety responsiveness. We made no health related interventions (according to ClinO) during the course of the project.

Werden im Forschungsprojekt Massnahmen angewendet welche für die teilnehmenden Personen mit minimalen Risiken und Belastungen verbunden sind?

Ja

BECAUSE

We collected DNA from buccal swaps of children for genome-wide genotyping. The study determined the association between polygenic risk score (PRS), adiposity, and satiety responsiveness. Our data collection procedures (buccal swaps) caused participants no more than minimal risk or stress.