

Set Shifting in Adolescents with Anorexia Nervosa.

Published: 29-04-2013

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Primary ObjectiveTo assess in 20 adolescents with anorexia nervosa the cognitive flexibility in response to two computerised category learning tasks and compare these results to a age and gender matched control group. Task one will present pictures...

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Eating disorders and disturbances
Study type	Observational non invasive

Summary

ID

NL-OMON43937

Source

ToetsingOnline

Brief title

Set Shifting in Adolescents with Anorexia Nervosa.

Condition

- Eating disorders and disturbances

Synonym

Anorexia Nervosa

Research involving

Human

Sponsors and support

Primary sponsor: Universiteit Utrecht

Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: Adolescents, Anorexia Nervosa, Cognitive_rigidity, Set-shifting

Outcome measures

Primary outcome

Set-shifting abilities

Levels of Intolerance of uncertainty

Secondary outcome

Levels of Sensitivity to reward and punishment

Levels of behavioural inhibition and behavioural activation.

Study description

Background summary

Anorexia Nervosa is an extremely debilitating, often chronic, illness with high rates of mortality. Patients often are very inflexible in their thinking, which tends to negatively affect treatment success. This cognitive inflexibility (such as set-shifting) has been hypothesized to be an endophenotype for anorexia nervosa. If this is indeed the case, then these abnormalities should be developing in adolescent youth, but as yet studies investigating this are lacking.

Study objective

Primary Objective

To assess in 20 adolescents with anorexia nervosa the cognitive flexibility in response to two computerised category learning tasks and compare these results to a age and gender matched control group. Task one will present pictures of houses and castles that differ in detail in the drawing. Subjects then have to learn which building type is category A or category B. During the task application the rules change, and subjects have to learn the new rule. Task two will present abstract stripes of varying orientation and thickness. Similar to Task one, subjects have to categorise the patterns and learn changing rules. Hypothesis 2: we hypothesise that AN subjects will take longer to learn the new rule and will make more mistakes after the rule changes. This is a sign of impaired cognitive flexibility.

Secondary Objective(s)

To assess the level of uncertainty in adolescents with AN in relation to cognitive flexibility. The *Intolerance of Uncertainty Scale* can be used to measure whether patients respond with a sense of uncertainty and helplessness to every day situations.

Hypothesis 2: We hypothesise that AN subjects with high uncertainty scores will have more problems with cognitive flexibility as assessed in the two tasks described above.

Study design

Participants will at only one time point be asked to complete 3 questionnaires and 2 computer tasks. This will in total take about 60 minutes and will all take place at Rintveld (patients) or at home (healthy controls).

Study burden and risks

Risks are minimal, for example tiredness after the research.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adolescents (12-15 years)

Adolescents (16-17 years)

Inclusion criteria

AN group: Adolescents (12-17 years old) who have been given a diagnosis of Anorexia Nervosa.;HC group: Adolescents (12-17 years old) who not have a history of Anorexia Nervosa

Exclusion criteria

AN group: Other eating disorder; younger than 12 or older than 17; medically or psychologically unstable.;HC group: Any eating disorder; younger than 12 or older than 17; medically or psychologically unstable.

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Allocation:	Non-randomized controlled trial
Masking:	Open (masking not used)

Primary purpose: Basic science

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	23-10-2013
Enrollment:	40
Type:	Actual

Ethics review

Approved WMO	
Date:	29-04-2013
Application type:	First submission
Review commission:	METC NedMec
Approved WMO	
Date:	27-08-2014
Application type:	Amendment
Review commission:	METC NedMec
Approved WMO	
Date:	27-07-2016
Application type:	Amendment
Review commission:	METC NedMec

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
CCMO	NL43760.041.13