

Treatment of childhood and adolescent anorexia nervosa: day treatment versus inpatient treatment

Submission date 31/07/2006	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
Registration date 18/01/2007	Overall study status Completed	<input type="checkbox"/> Protocol
Last Edited 17/03/2017	Condition category Mental and Behavioural Disorders	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

Anorexia nervosa is a serious mental health condition where a person keeps their body weight as low as possible. There are very few studies exploring the effectiveness of treatment setting in adolescent anorexia nervosa. The aim of this study is to compare inpatient treatment with day patient treatment after short inpatient medical stabilization.

Who can participate?

Adolescent girls aged between 11 and 18 at first admission to hospital treatment for anorexia nervosa

What does the study involve?

All participants are first admitted to inpatient treatment for the first three weeks of the study. After completing this three-week stabilization period, participants are randomly allocated to either continued inpatient treatment or day patient treatment. Both day treatment and inpatient treatment include medical management as required, physiotherapy, occupational therapy, nutritional counseling, nutritional therapy (e.g. eating according to a plan, model eating, eating in a restaurant, guided family meals), weight management with a behavioural program to support weekly weight gain up to a target weight, group therapy for eating disorders, individual psychotherapy (Cognitive-Behavioural Therapy [CBT]), and family-based therapy. To assure safety, all participants are assessed twice a week by physicians who are experienced in the complications associated with adolescent AN.

What are the possible benefits and risks of participating?

Not provided at time of registration

Where is the study run from?

Universitätsklinikum Aachen (Germany)

When is the study starting and how long is it expected to run for?

October 2006 to October 2012

Who is funding the study?
Federal Ministry of Education and Research (Germany)

Who is the main contact?
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Contact information

Type(s)
Scientific

Contact name
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Additional identifiers

Protocol serial number
N/A

Study information

Scientific Title
Treatment of childhood and adolescent Anorexia Nervosa: Day treatment versus Inpatient treatment

Acronym
ANDI

Study objectives
The effect of 12 weeks of day patient treatment is not different (non-inferior) from inpatient treatment of the same length in terms of weight gain after one year concerning adolescents with non-chronic Anorexia Nervosa (AN).

Ethics approval required
Old ethics approval format

Ethics approval(s)

Study design

Multicentre prospective randomised non-inferiority trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Anorexia nervosa

Interventions

Day treatment and inpatient treatment includes:

1. Medical management as required
2. Physiotherapy
3. Occupational therapy
4. Nutritional counselling
5. Nutritional therapy (e.g. eating according to a plan, model eating, eating in a restaurant, guided family meals)
6. Weight management with flexible operant conditional behavioural program to support a weekly weight gain of 500-1000 gr/week up to the achievement of target weight (15 to 20th Body Mass Index [BMI] percentile)
7. Group therapy for eating disorders
8. Individual psychotherapy psychotherapy (Cognitive-Behavioural Therapy [CBT])
9. Family-based therapy

Outpatient treatment includes:

1. Re-admission contract
2. One to two weekly individual psychotherapy including weight management and nutritional counselling (anorexia nervosa oriented CBT according to the evaluated manual-based outpatient program from Pike et al. 2003 adapted to adolescents)
3. Four-weekly family-based interventions (one hour/session) until week 52 (one-year follow-up)

Added 23/07/2010:

As of the above update date, a new follow-up was added to this record; patients will now also be followed-up in week 130 (1.5 years after the primary outcome).

Intervention Type

Behavioural

Primary outcome(s)

Current primary outcome measures as of 05/02/2013:

Difference between BMI at admission, after one year and after two and a half years.

Discontinuation of day treatment will be penalised appropriately. All treatment studies of AN have investigated weight gain during treatment and weight gain and weight maintenance after achievement of a target weight as major goals in the treatment of AN (e.g. British, American and

German guidelines). BMI can be easily and objectively assessed even by general practitioners in case of relocations.

Previous primary outcome measures until 05/02/2013:

Difference between BMI after one year and at admission. Discontinuation of day treatment will be penalised appropriately. All treatment studies of AN have investigated weight gain during treatment and weight gain and weight maintenance after achievement of a target weight as major goals in the treatment of AN (e.g. British, American and German guidelines). BMI can be easily and objectively assessed even by general practitioners in case of relocations.

Key secondary outcome(s)

Current secondary outcome measures as of 05/02/2013:

The clinical claim in favour of day treatment will only be supported in the case of the rejection of the null hypothesis based on the primary outcome measure. However, due to limited follow-up time, even in this case additional outcome variables will be analysed to support the clinical claim.

The descriptive outcome measures comprise:

1. Difference between BMI after one year and at admission
2. Morgan-Russell criteria
3. BMI percentile
4. Improvement of eating disorder psychopathology (self report: Eating Disorder Inventory - 2 [EDI-2], structured interview: SIAB)
5. Depressive symptoms (patients: Depressionsinventar für Kinder und Jugendliche [Depression Inventory for Children and Adolescents] [DIKJ], parents: Beck Depression Inventory [BDI])
6. Obsessive-compulsive symptoms (Childrens Yale-Brown Obsessive Compulsive Scale [CY-BOCS])
7. General psychopathology (Symptoms CheckList [SCL-90-R56])
8. Burden of parents (Brief Symptom Inventory [BSI])

At one-year follow-up additionally:

1. The number of relapses (hospitalisations)
2. Quality of life
3. Days of hospital treatment upon achievement of target weight

At two and half-year follow-up:

1. The number of relapses (hospitalisations)
2. Quality of life
3. Days of hospital treatment upon achievement of target weight
4. Treatment satisfaction

All psychometric outcome measures will be derived from validated and internationally used questionnaires and interviews.

Previous secondary outcome measures until 05/02/2013:

The clinical claim in favour of day treatment will only be supported in the case of the rejection of the null hypothesis based on the primary outcome measure. However, due to limited follow-up time, even in this case additional outcome variables will be analysed to support the clinical claim.

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At one-year follow-up additionally:

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2. Quality of life
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All psychometric outcome measures will be derived from validated and internationally used questionnaires and interviews.

Completion date

31/10/2012

Eligibility

Key inclusion criteria

Amendments as of 23/07/2010:

As of the above date, point one below was updated as follows:

1. Female patients between 11 and 18 years

Initial information at time of registration:

1. Female patients between 12 and 18 years
2. At first admission to hospital treatment for AN according to Diagnostic and Statistical Manual of mental disorders - fourth edition (DSM-IV) criteria as assessed by the Structured Interview for Anorexic and Bulimic disorders (SIAB) (Fichter et al. 1998)
3. Reasonable distance from residence to hospital: less than 60 minutes by bus/train
4. Written informed consent of the patient and - if necessary - of her legal guardian
5. All patients have passed a somatical stabilisation of three weeks in an inpatient setting prior to randomisation

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Child

Lower age limit

11 years

Upper age limit

18 years

Sex

Female

Key exclusion criteria

1. Any psychotic or personality disorder
2. Current alcohol or other substance abuse disorder
3. Self-injury behaviours as assessed by a structured diagnostic interview (Kiddie-Schedule for Affective Disorders and Schizophrenia [SADS], Delmo et al. 2001)
4. Insufficient ability to understand German (patients and parents)
5. Intelligence Quotient (IQ) less than 85

Date of first enrolment

01/10/2006

Date of final enrolment

31/10/2012

Locations**Countries of recruitment**

Germany

Study participating centre

Universitätsklinikum Aachen

Aachen

Germany

52074

Sponsor information**Organisation**

German Federal Ministry of Education and Research (Bundesministerium Für Bildung und Forschung [BMBF]) (Germany)

ROR

<https://ror.org/04pz7b180>

Funder(s)**Funder type**

Government

Funder Name

Bundesministerium für Bildung und Forschung

Alternative Name(s)

Federal Ministry of Research, Technology and Space, Bundesministerium für Bildung und Forschung, Federal Ministry of Education and Research, BMBF

Funding Body Type

Government organisation

Funding Body Subtype

National government

Location

Germany

Results and Publications

Individual participant data (IPD) sharing plan**IPD sharing plan summary**

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	15/11/2013		Yes	No
Results article	results	05/04/2014		Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes