# Periodontal impact of anorexia nervosa and bulimia nervosa

Submission date	Recruitment status	Prospectively registered		
06/11/2016	No longer recruiting	☐ Protocol		
Registration date	Overall study status	Statistical analysis plan		
16/11/2016	Completed	[X] Results		
Last Edited	Condition category	Individual participant data		
07/10/2022	Mental and Behavioural Disorders			

## Plain English summary of protocol

Background and study aims:

Eating disorders are serious mental health conditions where the sufferer has an unhealthy relationship with food. The most common forms of eating disorders are anorexia nervosa, where the sufferer tries to keep their body weight as low as possible usually by severely restricts the amount they eat and exercising excessively, and bulimia nervosa, where the sufferer tries to control their weight by severely restricting the amount of food they eat, then binge eating and purging the food from their body by making themselves vomit or using laxatives. Nowadays, unknowns exist regarding the role of malnutrition (lack of proper nutrition) in the causes and management of periodontitis (gum disease). Therefore, there is an urgent need of studies exploring the relationship between eating disorders and periodontal conditions. The aim of this study is to determine the link between gum disease and eating disorders.

#### Who can participate?

Adult women with anorexia nervosa or bulimia nervosa and healthy women of the same age.

#### What does the study involve?

Participants in all groups attend a single study visit. At the visit, participants are interviewed about their oral hygeine behaviours, whether they smoke and how long they have had an eating disorder for (if from the anorexic or bulemic group). They then receive a full mouth examination to check for missing teeth and to assess gum health. At the end of the study, the results from the three patient groups are compared.

What are the possible benefits and risks of participating?

Participants benefit from receiving a specialized full-mouth examination, a gum disease assessment and dental advice. There are no notable risks involved with participating in this study.

Where is the study run from?

- 1. Paul Brousse Hospital (France)
- 2. Rothschild Hospital (France)

When is study starting and how long is it expected to run for? January 2014 to January 2018

Who is funding the study? Assistance Publique Hôpitaux de Paris (France)

Who is the main contact?

1. Dr Hélène Rangé (public)
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2. Professor Philippe Bouchard (scientific)
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# Contact information

# Type(s)

Public

#### Contact name

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Scientific

#### Contact name

Prof Philippe Bouchard

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# Additional identifiers

**EudraCT/CTIS** number

IRAS number

ClinicalTrials.gov number

## Secondary identifying numbers

CPP n°13588

# Study information

#### Scientific Title

Periodontal Impact of Eating Disorders: the PERIOED case-control study

#### Acronym

**PERIOED** 

# **Study objectives**

Eating disorder patients have a higher risk for periodontal inflammation than non-eating disorder subjects.

#### Ethics approval required

Old ethics approval format

# Ethics approval(s)

Ethical Research Comittee CPP Ile de France I, 08/09/2014, ref: IRB 00008522

#### Study design

Observational cross-sectional case-control single-centre study

#### Primary study design

Observational

# Secondary study design

Case-control study

# Study setting(s)

Hospital

# Study type(s)

Diagnostic

#### Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

# Health condition(s) or problem(s) studied

- 1. Anorexia nervosa
- 2. Bulimia nervosa

#### Interventions

All participants attend one single visit at baseline.

Firstly, this visit involves a patient interview in order to record the oral hygiene behaviors (dental visits frequency and toothbrushing habits), addictions (tobacco smoking status) and characteristics associated with eating disorders (duration in months, restricted eating profile

and self-induced vomiting profile). Secondly, participants receive a full-mouth periodontal examination, at 6 sites per tooth (except third molars), using a manual periodontal probe (HuFriedy PCP UNC 15 probe, Chicago, IL, USA). The number of missing teeth is reported. Dental plaque index and bleeding on probing score are recorded using a dichotomic approach. Periodontal probing depths and gingival recession are measured in millimeters using the periodontal probe.

#### Intervention Type

Other

#### Primary outcome measure

Clinical Attachment Level (CAL) is calculated as follows: periodontal probing depth (in mm) added to gingival recession height (in mm), which are measured with a manual periodontal probe (6 sites per tooth) at the day of the oral examination.

#### Secondary outcome measures

Gingival inflammation is measured using the bleeding on probing score (% of sites) at the day of the oral examination.

#### Overall study start date

01/01/2014

# Completion date

01/01/2018

# **Eligibility**

## Key inclusion criteria

Anorexia nervosa participants:

- 1. Age 18 to 65 years old
- 2. Female
- 3. A proper diagnosis of anorexia nervosa for at least 5 years
- 4. Affiliated to the French social insurance

#### Bulimia nervosa participants:

- 1. Age 18 to 65 years old
- 2. Female
- 3. A proper diagnosis of bulimia nervosa for at least 5 years
- 4. Affiliated to the French social insurance

#### Non-eating disorder participants:

- 1. Age 18 to 65 years old
- 2. Female
- 3. Non-eating disorder volunteer
- 4. Affiliated to the French social insurance

#### Participant type(s)

Patient

#### Age group

#### Adult

#### Lower age limit

18 Years

#### Sex

**Female** 

# Target number of participants

The target number of participants was 90, with 30 anorexia nervosa inpatients, 30 bulimia nervosa inpatients and 30 controls.

#### Total final enrolment

140

#### Key exclusion criteria

- 1. Unable to speak French
- 2. Unable to read and/or understand the information form
- 3. Taking anti-inflammatory medications or antibiotics at dental examination
- 4. Previously received any dental treatment that could interfere with the periodontal status 3 months before the clinical examination (scaling and root planning, orthodontic treatment ongoing)
- 5. Having less than 10 teeth

#### Date of first enrolment

07/10/2014

#### Date of final enrolment

07/11/2016

# Locations

# Countries of recruitment

France

# Study participating centre

Psychiatric and Addiction Department, Paul Brousse Hospital, AP-HP

12 avenue Paul Vaillant Couturier Villejuif France

94800

# Study participating centre

Department of Periodontology, Service of Odontology, Rothschild Hospital, AP-HP

5 rue Santerre

# Sponsor information

# Organisation

Assistance Publique Hôpitaux de Paris (APHP)

#### Sponsor details

3 Avenue Victoria Paris France 75004

#### Sponsor type

Hospital/treatment centre

#### Website

http://www.aphp.fr

#### **ROR**

https://ror.org/00pg5jh14

# Funder(s)

## Funder type

Hospital/treatment centre

#### **Funder Name**

Assistance Publique - Hôpitaux de Paris

#### Alternative Name(s)

Assistance Publique Hôpitaux de Paris, Assistance Publique-Hôpitaux de Paris, AP-HP

#### **Funding Body Type**

Private sector organisation

# **Funding Body Subtype**

Trusts, charities, foundations (both public and private)

#### Location

France

# **Results and Publications**

# Publication and dissemination plan

Publish in an international journal on nutrition in 2017 (first semester)

# Intention to publish date

01/01/2017

# Individual participant data (IPD) sharing plan

Requests for data should be sent to the corresponding authors Hélène Rangé (helene.jan@aphp.fr) or Philippe Bouchard (philippe.bouchard@aphp.fr)

# IPD sharing plan summary

Available on request

## **Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article		16/12/2019	06/10/2022	Yes	No
Results article		12/03/2019	06/10/2022	Yes	No