

# Ex-vivo/in vitro studies on immune-activators and blockers in hidradenitis suppurativa

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To investigate the functional implications of bacteria, cigarette smoke components and adipokines in the pathology of hidradenitis suppurativa by analyzing the cytokine profiles and the antimicrobial peptide profiles in peripheral bloodsamples of...

<b>Ethical review</b>	Not approved
<b>Status</b>	Will not start
<b>Health condition type</b>	Other condition
<b>Study type</b>	Observational invasive

## Summary

### ID

NL-OMON50846

### Source

ToetsingOnline

### Brief title

Immune activation in hidradenitis suppurativa

### Condition

- Other condition

### Synonym

acne inversa, verneuil's disease

### Health condition

De proefpersonen fungeren als de controle groep van patienten met de huidziekte hidradenitis suppurativa.

### Research involving

Human

## Sponsors and support

**Primary sponsor:** Erasmus MC, Universitair Medisch Centrum Rotterdam

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

## Intervention

**Keyword:** Hidradenitis suppurativa, Immune activation, Immune response

## Outcome measures

### Primary outcome

The main study parameter is the difference of immune response to above mentioned hidradenitis suppurativa triggering factors, forexample the cytokine/antimicrobial profile after microbial exposure in HS patients compared to healthy controls.

### Secondary outcome

N.A.

## Study description

### Background summary

Hidradenitis suppurativa is considered a complex disease involving several factors. The clinical presentation of hidradenitis suppurativa appears reminiscent of bacterial infection. However, the role of these bacterial species is poorly understood and is far from resolved. Other important associated factors are smoking and obesity. In order to gain more insights into the pathogenesis of hidradenitis suppurativa, especially in the interaction between commensal flora, cigarette smoke components, adipokines and the immune system, further exploration is required.

### Study objective

To investigate the functional implications of bacteria, cigarette smoke components and adipokines in the pathology of hidradenitis suppurativa by analyzing the cytokine profiles and the antimicrobial peptide profiles in peripheral bloodsamples of patients withhidradenitis suppurativa and healthy

controls.

## Study design

Explorative and experimental study

## Study burden and risks

The subject will not directly benefit from this research, but participation contributes to an increase in knowledge about hidradenitis suppurativa and subsequently improving treatment and care.

## Contacts

### Public

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### Scientific

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## Trial sites

### Listed location countries

Netherlands

## Eligibility criteria

### Age

Adults (18-64 years)

Elderly (65 years and older)

## Inclusion criteria

Inclusion criteria cases - hidradenitis suppurativa patients

- Participating in HiScreen Biobank
- Informed consent available for bloodsamples

Inclusion healthy volunteers

- Adult (>18 years old) not suffering from HS
- Competent and willing to provide informed consent

## Exclusion criteria

Exclusion criteria for hidradenitis suppurativa patients

- <18 years of age
- use of systemic or local antibiotics in the past 2 weeks
- use of any other medication potentially affecting the cytokine/antimicrobial profiles
- pregnant women

Exclusion criteria controls

- <18 years of age
- known with hidradenitis suppurativa
- use of any other medication potentially affecting the cytokine/antimicrobial profiles
- pregnant women
- relatives with hidradenitis suppurativa

## Study design

### Design

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

## Recruitment

NL  
Recruitment status: Will not start  
Enrollment: 30  
Type: Anticipated

## Ethics review

Not approved  
Date: 02-09-2021  
Application type: First submission  
Review commission: METC Erasmus MC, Universitair Medisch Centrum Rotterdam (Rotterdam)

## 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	NL76820.078.21