# Observation of the prevalence of sublingual microcirculatory alterations with SDF imaging in intensive care patients

Published: 30-09-2010 Last updated: 02-05-2024

The objective is to carry out a international multi center study to investigate the prevalence of microcirculatory alterations in intensive care patients. Up to the present time, a comprehensive prevalence study like this has not been carried out.

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Other condition
Study type	Observational non invasive

# Summary

### ID

NL-OMON34939

**Source** ToetsingOnline

**Brief title** Microcirculatory alterations in intensive care patients

# Condition

• Other condition

Synonym microcirculation

#### **Health condition**

microcirculatie

#### **Research involving**

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Human

### **Sponsors and support**

Primary sponsor: Medisch Centrum Leeuwarden Source(s) of monetary or material Support: Stichting Intensive Care

#### Intervention

Keyword: intensive care, microcirculation, SDF imaging

#### **Outcome measures**

#### **Primary outcome**

microcirculatoire alterations related to underlying illness, expressed as -

amongst others- microvascular flow index (MFI), proportion of perfused vessels

(PPV).

#### Secondary outcome

microcirculatoire alterations related to:

hospital/intensive care length of stay

mortality

severity of illness

# **Study description**

#### **Background summary**

Recent research has focused on the investigation of sublingual microcirculatory alterations in different patient categories, like cardiac surgery and sepsis. The microcirculation plays a pivotal role in tissue oxygenation and can be non invasively visualized by SDF-imaging.

#### **Study objective**

The objective is to carry out a international multi center study to investigate the prevalence of microcirculatory alterations in intensive care patients. Up to the present time, a comprehensive prevalence study like this has not been carried out.

#### Study design

Visualization of the sublingual microcirculation at a fixed time point with SDF- or OPS-imaging in all adult patients of participating intensive care units, regardless of their underlying disease. Concurrently, data on both patient characteristics (e.g. severity of illness, treatment) and ICU characteristics will be obtained.

#### Study burden and risks

non invasive measurement, no damaging consequences have been observed

# Contacts

#### Public

Medisch Centrum Leeuwarden

Henri Dunantweg 2 8901 BR Leeuwarden NL Scientific Medisch Centrum Leeuwarden

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# **Trial sites**

# **Listed location countries**

Netherlands

# **Eligibility criteria**

Age Adults (18-64 years)

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Elderly (65 years and older)

### **Inclusion criteria**

intensive care patient > 18 informed consent

### **Exclusion criteria**

recent maxillofacial surgery injury to the maxillofacial area

# Study design

### Design

Study type: Observational non invasive		
Masking:	Open (masking not used)	
Control:	Uncontrolled	
Primary purpose:	Diagnostic	

#### Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	05-09-2011
Enrollment:	100
Туре:	Actual

# **Ethics review**

Approved WMO	
Date:	30-09-2010
Application type:	First submission
Review commission:	RTPO, Regionale Toetsingscie Patientgebonden Onderzoek (Leeuwarden)

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Approved WMO	
Date:	31-08-2011
Application type:	Amendment
Review commission:	RTPO, Regionale Toetsingscie Patientgebonden Onderzoek (Leeuwarden)

# **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
Other	2006-004298-88
ССМО	NL31331.099.10