# Fecal Microbiota Transplantation to Restore Residual Beta Cell Function In Patients With Long- Duration Type 1 Diabetes Mellitus

No registrations found.

Ethical review	Positive opinion
Status	Recruiting
Health condition type	-
Study type	Interventional

# **Summary**

### ID

**NL-OMON27205** 

**Source** Nationaal Trial Register

**Brief title** FMT-Restore-DM1-trial

#### **Health condition**

type 1 diabetes

### **Sponsors and support**

Primary sponsor: Amsterdam UMC Source(s) of monetary or material Support: Dutch Diabetes Foundation/DON

### Intervention

### **Outcome measures**

#### **Primary outcome**

residual beta cell function (measured with a mixed meal test ) in relation to gut microbiota

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composition changes at 6 months before treatments (run-in), at baseline, and at 6 and 12 months.

#### Secondary outcome

reduction in autoimmunity markers including FACS on peripheral blood lymphocyte subsets (change Th17 (CD4+IL-17+) and T-regs (CD4+CD25+ FoxP3+) and T-cell exhaustion at these timepoints. Finally, plasma metabolites are determined

# **Study description**

#### **Background summary**

To investigate whether fecal microbial transplantation (FMT) from either allogenic donor (from type 1 diabetes with a highly preserved beta cell fraction) or autologous (own) donor restores residual beta cell function up until 12 months after intervention in patients with longstanding type 1 diabetes

#### **Study objective**

Does FMT improve residual beta cell function in longstanding DM1

#### Study design

6 months before treatments (run-in) as well as at baseline, and at 6 and 12 months after start of FMT treatment.

#### Intervention

multiple fecal transplantations from either donors (DM1 subjects with highly preserved beta cell function) or autologous feces

# Contacts

Public Amsterdam UMC max nieuwdorp

0031 20 5666612 Scientific Amsterdam UMC

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# **Eligibility criteria**

### **Inclusion criteria**

- Patients with >5 years type 1 diabetes
- Aged 18-65 years
- BMI 18-30 kg/m2
- Male/females
- No concomitant medication besides exogenous insulin

### **Exclusion criteria**

Inability to provide written informed consent

- Evidence for absent residual beta cel function (undetectable C-peptide in urine)
- Antibiotics use in the last 3 months and proton-pump inhibitor use
- Evidence for compromised immunity
- Second auto-immune disease (i.e. coeliac disease, hyper- or hypothyroidism, inflammatory bowel disease)

# Study design

### Design

Study type:	Interventional
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Double blinded (masking used)
Control:	Active

### Recruitment

NL Recruitment status:

Recruiting

Start date (anticipated):	22-12-2020
Enrollment:	34
Туре:	Anticipated

### **IPD** sharing statement

Plan to share IPD: Undecided

# **Ethics review**

Positive opinion	
Date:	22-12-2020
Application type:	First submission

# **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** NTR-new Other ID NL9153 METC AMC : 2020\_225

# **Study results**