

# An open study to investigate the effect of 4 instead of 2 daily dosing mycophenolate mofetil (MMF) in renal transplant patients on diarrhea

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The main objective is to find out if dividing the daily oral dose prevents diarrhea without increasing risk of graft failure. Secondary objective is the quality of life and effect on intestinal permeability.

<b>Ethical review</b>	Approved WMO
<b>Status</b>	Recruitment stopped
<b>Health condition type</b>	Other condition
<b>Study type</b>	Interventional

## Summary

### ID

NL-OMON30619

### Source

ToetsingOnline

### Brief title

4xMMF

### Condition

- Other condition

### Synonym

Renal transplantation

### Health condition

transplantatie geneeskunde

### Research involving

Human

## Sponsors and support

**Primary sponsor:** Universitair Medisch Centrum Utrecht

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

## Intervention

**Keyword:** Diarrhea, dosis frequency, Mycophenolate mofetil, renal transplant patients

## Outcome measures

### Primary outcome

- Stool frequency and faeces weight
- Incidence of acute graft rejection (according to BANFF 1997 criteria)

### Secondary outcome

- Quality of life as measured by the SF36 questionnaire
- Renal function as measured by serum creatinine and creatinine clearance

(Cockcroft-Gault formula)

- Intestinal permeability as measured by the intestinal permeability

lactulose-mannitol test

- Comparison of the 2 hours MMF-AUC (0, 30, 60, 90 and 120 min) between a 2 and

4 times daily schedule

- Faeces bacterial profile
- Incidence of adverse events
- Co-medication used during the study will be analyzed

## Study description

### Background summary

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Mycophenolate mofetil (MMF or Cellcept®) is an immunosuppressive that is used for the prevention of acute rejection in renal transplantation. Its major side effect is diarrhea, which may lead to MMF dose reductions and discontinuations. Unfortunately this is associated with an increased risk of graft failure. Therefore we will investigate the effect of dividing the daily oral dose (4 times instead of 2) on diarrhea in renal transplant patients.

## **Study objective**

The main objective is to find out if dividing the daily oral dose prevents diarrhea without increasing risk of graft failure. Secondary objective is the quality of life and effect on intestinal permeability.

## **Study design**

An 18 weeks open crossover intervention study. Patients will be screened (2 weeks). In the first study period (week 0-8) the daily oral dose is divided into 4 doses. After 8 weeks patients switch and receive MMF twice a day for another 8 weeks.

## **Intervention**

The daily oral dose will be divided into 4 doses a day instead of the usual 2 doses a day

## **Study burden and risks**

Extra procedures:

During the study period (18 weeks) patients visit the hospital 6 times. Serum creatinine and MPA-AUC will be determined several times. Faeces and urine will be collected at the end of each period for investigation on bacterial profile and intestinal permeability respectively. Furthermore, patients have to fill out quality of life questionnaires and a diary for body weight and stool frequency.

Risks:

With every change in the immunosuppressive protocol there is a chance of an acute organ rejection. The chance of this, however, is considered small, since the total daily dose is unchanged. Moreover, such rejections are nearly always treatable with the standard therapies available (methylsolumedrol and ATG)

Benefits:

The severity of diarrhea may decrease without an increase in graft rejection, resulting in a measurable improved quality of life.

## 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

Male or female > 18 years old

Renal transplantation > 6 months with stable renal function (serum creatinine < 250  $\mu\text{mol/L}$ )

Use of MMF (Cellcept®) 2 times daily

History of diarrhea (> 1 month  $\geq$  3 times a day loose/ watery stool in at least 75% of the cases)

Willing and capable to give written informed consent

Able to communicate and cooperate with the investigators

## Exclusion criteria

Usage of morfinomimetics, anti-diarretics, laxans or other drugs that are known to induce diarrhea.

Recent use of antibiotics (< 4 weeks before study)

Gastro-intestinal infections (Yersinea, Campylobacter, Shigella, Salmonella, Clostridium difficile toxin, CMV)

Known gastro-intestinal diseases or recent major gastro-intestinal surgery

## Study design

### Design

Study phase:	4
Study type:	Interventional
Intervention model:	Other
Allocation:	Non-randomized controlled trial
Masking:	Open (masking not used)
Control:	Active
Primary purpose:	Treatment

### Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	20-05-2008
Enrollment:	10
Type:	Actual

### Medical products/devices used

Product type:	Medicine
Brand name:	Cellcept
Generic name:	Mycophenolate mofetil
Registration:	Yes - NL intended use

## Ethics review

Approved WMO

Date: 02-03-2007

Application type: First submission

Review commission: METC Universitair Medisch Centrum Utrecht (Utrecht)

Approved WMO

Date: 05-06-2007

Application type: First submission

Review commission: METC Universitair Medisch Centrum Utrecht (Utrecht)

## 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

<b>Register</b>	<b>ID</b>
EudraCT	EUCTR2007-000033-19-NL
CCMO	NL15396.041.07