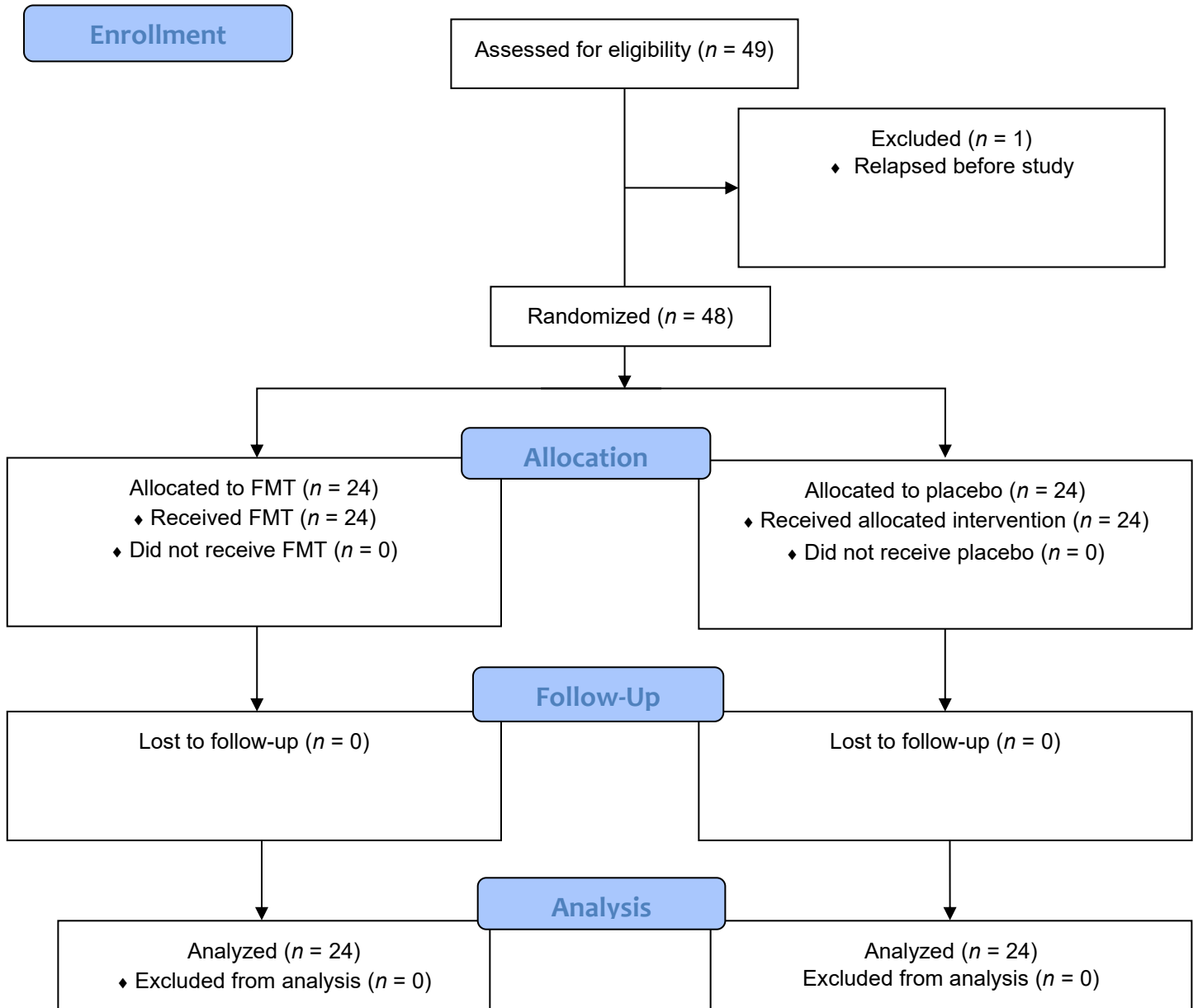


## Supplementary material

## The study flow diagram



Supplementary Figure 1 Consort flow diagram. FMT: Fecal microbial transplantation.

**Supplementary Table 1 The laboratory tests used for screening of donors in the beginning of the trial and after the advent of international fecal microbial transplantation consensus 2017**

<b>Screening of Donors in 2012<sup>11</sup></b>			
<b>Sample</b>	<b>Infectious agents to be tested</b>	<b>Laboratory tests</b>	
<b>Stool</b>	Clostridium difficile	Culture and toxin A/B test	
	Common fecal pathogens: Salmonella, Shigella, Campylobacter, Yersinia	Culture	
	Ova and parasites	Light microscopy	
	<b>Serum</b>	Hepatitis B	HBV surface antigen
	Hepatitis C	Anti-HCV antibodies by EIA	
	HIV 1 and HIV 2	Anti-HIV antibodies by EIA	
	Treponema pallidum	Plasma reagin test	
<b>2017 screening of donors<sup>9</sup></b>			
<b>Stool pathogens</b>	Common fecal pathogens: Salmonella, Shigella, Campylobacter, Yersinia enterocolitica/pseudotuberculosis and diarrhea causing E. coli -strains	PCR	
	Clostridioides difficile	PCR	
	Helicobacter pylori	EIA	
	Norovirus	PCR	
	Parasites: Giardia lamblia, Cryptosporidium spp. (C. parvum or C. hominis), Entamoeba histolytica, Dientamoeba fragilis.	PCR	
	Ova and parasites	Light microscopy	
	Multi drug resistant bacteria: VRE, CPE, ESBL, multiresistant Pseudomonas Aeruginosa, multiresistant Acinetobacter	Culture and PCR	
	MRSA (perineum sample)	Culture and PCR	
	<b>Serum</b>	Treponema pallidum	EIA

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**pathogens**

HIV 1 and HIV 2	Anti-HIV antibodies by EIA
Hepatitis B	HBV surface and core antigens
Hepatitis C	Anti-HCV antibodies by EIA
Hepatitis A	Anti-HAV IgM antibodies
Hepatitis E	Anti-HEV IgM and IgG antibodies
Sytomegalovirus	PCR
Epstein-Barr virus	PCR

**Serum  
general**

Erythrocyte sedimentation rate
C-reactive protein
Alanine aminotransferase
Alkaline phosphatase
Glutamyl transferase
International Normalized Ratio
Bilirubin
Albumin
Creatinine
Sodium
Potassium
Glucose
Lipids(Cholesterol, LDL, HDL, TG)

**Stool  
general**

Occult blood
Calprotectine

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EIA: Enzyme immunoassay; PCR: Polymerase chain reaction; VRE: Vancomycin resistant enterococcus; CPE: Carbapenemase producing enterobacteria; ESBL: Extended spectrum

beta-lactamase *producing bacteria*; LDL: Low density lipoprotein; HDL: High density lipoprotein; TG: Triglycerides.

**Supplementary Table 2 The effect of baseline characteristics on the maintenance of remission analyzed with the Cox regression method**

<b>Baseline variable</b>	<b>Group</b>	<b>Mean</b>	<b>P value</b>	<b>Hazard ratio (95% CI)</b>
15D total score	Placebo	0.928	0.350	0.02 (0.00; 82.50)
15D total score	Donor 1	0.917	0.729	126.54 (0,00; 98E13)
15D total score	Donor 2	0.894	0.033	0.00 (0.00; 0.37)
15D total score	Donor 3	0.905	0.206	0,00 (0.00; 24E10)
IBDQ total score	Placebo	162.7	0.09	0.99 (0.98; 1.00)
IBDQ total score	Donor 1	178.0	0.08	1.06 (0.99; 1.14)
IBDQ total score	Donor 2	172.6	0.17	0.97 (0.94; 1.01)
IBDQ total score	Donor 3	159.3	0.13	0.91 (0.80; 1.03)
Duration of disease	Placebo	114.0	1.00	1.00 (1.00; 1.00)
Duration of disease	Donor 1	5.2	0.89	1.06 (0.47; 2.42)
Duration of disease	Donor 2	51.7	0.77	1.00 (0.99; 1.02)
Duration of disease	Donor 3	49.1	0.70	1.00 (0.98; 1.03)
Fecal calprotectin	Placebo	115.8	0.01	1.00 (1.00; 1.00)
Fecal calprotectin	Donor 1	99.7	0.24	1.00 (1.00; 1.01)
Fecal calprotectin	Donor 2	73.1	0.42	1.00 (0.99; 1.01)
Fecal calprotectin	Donor 3	32.0	0.57	0.99 (0.96; 1.02)
Clinical Mayo score	Placebo	0.9	0.02	1.50 (1.07; 2.10)
Clinical Mayo score	Donor 1	1.3	0.12	3.20 (0.74; 13.86)
Clinical Mayo score	Donor 2	1.1	0.14	1.67 (0.85; 3.28)
Clinical Mayo score	Donor 3	0.8	0.89	0.92 (0.32; 2.71)

The baseline variables were analyzed one at a time and the presented numbers are crude values.

**Supplementary Table 3 Laboratory values as the means and standard deviations in the fecal microbial transplantation and placebo groups at timepoints of measurement, blood chemistry at 0, 4, 8, and 12 months, and fecal calprotectin at 0, 2, 4, 6, 8, 10, and 12 mo**

	N, FM T	FMT, mean ± SD	N, placeb o	Placebo, mean ± SD	<i>P</i> value
Hemoglobin at baseline (g/l)	24	142.0 (12.3)	23	141.3 (8.8)	0.836
Hemoglobin at 4 months (g/l)	18	144.0 (11.9)	16	144.3 (11.7)	0.951
Hemoglobin at 8 months (g/l)	15	143.2 (10.1)	13	146.1 (9.5)	0.447
Hemoglobin at 12 months (g/l)	13	148.0 (9.7)	9	146.3 (13.8)	0.743
Leukocytes at baseline (10E9/l)	24	5.5 (1.6)	23	6.0 (1.5)	0.238
Leukocytes at 4 months (10E9/l)	18	6.7 (2.0)	16	6.0 (1.7)	0.280
Leukocytes at 8 months (10E9/l)	15	6.2 (1.9)	13	6.0 (1.5)	0.732
Leukocytes at 12 months (10E9/l)	13	6.0 (2.4)	10	7.0 (2.3)	0.323
Trombocytes at baseline (10E9/l)	24	258.3 (53.4)	23	270.2 (58.2)	0.469
Trombocytes at 4 months (10E9/l)	18	266.2 (56.2)	16	240.6 (79.3)	0.280
Trombocytes at 8 months (10E9/l)	15	248.8 (44.1)	13	261.4 (66.4)	0.555
Trombocytes at 12 months (10E9/l)	13	242.2 (52.8)	10	264.6 (76.9)	0.415
Creatinine at baseline (μmol/l)	24	73.6 (14.4)	24	70.9 (14.2)	0.516
Creatinine at 4 months (μmol/l)	18	77.1 (13.2)	16	75.0 (19.0)	0.706
Creatinine at 8 months (μmol/l)	15	79.3 (16.1)	13	75.2 (14.3)	0.477
Creatinine at 12 months (μmol/l)	13	81.4 (10.5)	10	80.7 (18.9)	0.913
Alanine transaminase at baseline (U/l)	24	40.4 (52.8)	24	28.5 (28.0)	0.334
Alanine transaminase at 4 months (U/l)	18	42.6 (71.5)	16	27.0 (11.1)	0.395
Alanine transaminase at 8 months (U/l)	15	49.4 (85.7)	13	27.5 (14.5)	0.371

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months (U/l)						
Alanine transaminase at 12 months	13	32.6 (21.6)	10	24.2 (7.6)	0.255	
Alkaline phosphatase at baseline (U/l)	24	63.7 (15.1)	24	60.1 (17.6)	0.453	
Alkaline phosphatase at 4 months (U/l)	18	66.8 (14.8)	16	66.2 (17.3)	0.907	
Alkaline phosphatase at 8 months (U/l)	15	66.8 (13.0)	13	63.9 (14.5)	0.584	
Alkaline phosphatase at 12 months (U/l)	13	68.2 (12.3)	10	64.6 (16.7)	0.554	
C-reactive protein at baseline (mg/l)	24	1.5 (4.1)	24	2.8 (4.7)	0.317	
C-reactive protein at 4 months (mg/l)	18	2.2 (7.3)	16	1.6 (3.8)	0.772	
C-reactive protein at 8 months (mg/l)	15	2.1 (6.7)	13	3.5 (8.3)	0.627	
C-reactive protein at 12 months (mg/l)	13	2.5 (6.8)	10	0.4 (1.3)	0.415	
Fecal calprotectin at baseline ( $\mu\text{g/g}$ )	24	66.0 (108.6)	24	115.8 (184.7)	0.261	
Fecal calprotectin at 2 months ( $\mu\text{g/g}$ )	23	149.0 (325.7)	22	74.0 (125.8)	0.318	
Fecal calprotectin at 4 months ( $\mu\text{g/g}$ )	18	29.1 (51.0)	16	46.1 (86.4)	0.483	
Fecal calprotectin at 6 months ( $\mu\text{g/g}$ )	16	70.4 (111.3)	14	49.8 (85.0)	0.578	
Fecal calprotectin at 8 months ( $\mu\text{g/g}$ )	15	375.4 (1295.5)	13	32.0 (60.8)	0.350	
Fecal calprotectin at 10 months ( $\mu\text{g/g}$ )	13	23.7 (39.6)	12	81.8 (136.3)	0.154	

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Fecal calprotectin at 12 months	13	52.1 (123.9)	10	98.2 (210.3)	0.517
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( $\mu\text{g/g}$ )

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The number of measured patients (N) decreases at each timepoint as the patients drop out from the follow-up after a relapse of colitis; thus, measurements at the timepoint of relapse are included. Fecal calprotectin values below 50  $\mu\text{g/g}$  and C-reactive protein values below 10 mg/l were coded as null. FMT: Fecal microbial transplantation.