

Supplementary Information

Title: Fecal microbiota transplantation in alcohol-associated acute on chronic liver failure: An open-label clinical trial

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Supplementary Table 1. Hematological, Biochemical, Coagulation Parameters at Baseline, Days Seven, Twenty-eight and Ninety

Parameters		Baseline	Day 7	Day 28	Day 90
FMT group – number (%)		13 (100%)	13 (100%)	13 (100%)	7 (53.8%)
SOC group - number		20 (100%)	20 (100%)	12 (60%)	5 (25%)
Hematological					
Hemoglobin (g/dL)	FMT	9.89 (9.09-10.69)*	10.06 (8.89-11.23)	9.24 (8.07-10.41)	10.35 (8.06-12.64)
	SOC	9.04 (8.02-10.05)	8.67 (7.87-9.45)	8.64 (7.7-9.59)	10.24 (8.05-12.42)
TLC (x10 ⁹ /L)	FMT	10.37 (7.12-13.62)	9.65 (5.52-13.78) ^a	7.80 (5.57-10.04) ^b	6.50 (5.23-7.76)
	SOC	17.61 (12.47-22.75)	17.40 (12.68-22.12) ^a	13.20 (8.66-17.73) ^b	10.02 (2.69-17.34)
Platelets (x10 ⁹ /L)	FMT	107 (77-137)	131 (73-189)	104 (72-136)	117 (67-166)
	SOC	166 (107-225)	139 (86-192)	142 (68-217)	188 (76-300)
Biochemical					

Bilirubin (mg/dL)	FMT	17.08 (10.35-23.82) ^c	13.58 (6.87-20.28) ^c	12.48 (4.70-20.25)	2.95 (1.0 - 4.89)
	SOC	16.66 (13.23-20.08)	15.87 (12.43-19.3)	10.70 (5.87-15.52)	4.58 (0.82-8.35)
AST (IU/L)	FMT	102 (82-122)	102.6 (74.1-131)	85.6 (64-107.3)	63.7 (45.6-81.7)
	SOC	133.3 (100.9-165.6)	99.8 (79.4-120.2)	112 (74.9-149.2)	78.6 (42.8-114.3)
ALT (IU/L)	FMT	48.9 (34.3-63.4)	62.3 (41.7-82.9) ^d	48.8 (37.5-60.2)	51.4 (19.9-82.9)
	SOC	51.9 (38.5-65.2)	39.3 (30.1-48.4) ^d	49 (28.9-69)	39 (31.3-46.6)
Albumin (g/dL)	FMT	3.03 (2.63-3.43)	3.35 (2.99-3.70) ^e	3.19 (2.89-3.5)	3.30 (2.79-3.8)
	SOC	2.53 (2.31-2.74)	2.87 (2.63-3.12) ^e	3.27 (2.56-3.97)	3.49 (3.03-3.94)
INR	FMT	2.14 (1.92-2.36) ^f	2.04 (1.69-2.38)	1.9 (1.58-2.21)	1.34 (1.09-1.58) ^f
	SOC	1.95 (1.74-2.15)	2.09 (1.86-2.31)	2.12 (1.75-2.47)	1.57 (1.11-2.01)
Urea (mg/dL)	FMT	24.69 (16.51-32.87)	26.27 (18.05-34.5)	28.16 (16.14-40.19)	19.85 (14.68-25.03)
	SOC	44.06 (33.31-54.81)	45.01 (29.71-60.32)	46.78 (23.97-69.58)	20.69 (6.83-34.54)
Creatinine (mg/dL)	FMT	0.81 (0.64-0.97)	0.75 (0.64-0.97) ^a	0.82 (0.6-1.03)	0.68 (0.46-0.90)
	SOC	1.10 (0.90-1.30)	0.99 (0.90-1.3) ^a	1.11 (0.61-1.6)	0.67 (0.49-0.85)
Na ⁺ (mEq/L)	FMT	133.68 (131.38-135.97)	132.65 (129.93-135.36)	136.53 (134.91-138.16)	139.31 (138.06-140.56)
	SOC	133.25 (130.24-136.26)	137.32 (133.23-141.4)	137.92 (134.58-141.26)	140.56 (137.35-143.76)

Results as *mean (95% confidence intervals); ALT=Alanine aminotransferase; AST=Aspartate aminotransferase;

FMT=Fecal microbiota transplantation; INR=International Normalised Ratio; Na⁺=Sodium; SOC=Standard of care;

TLC=Total leucocyte count

^{aa}P=0.02, ^{bb}P=0.02, ^{cc}P=0.01, ^{dd}P=0.02, ^{ee}P=0.02, ^{ff}P=0.01

Supplementary Table 2. Adverse Events During Study

Adverse Event	FMT group	SOC group	<i>P</i> value
Total Number of Events	13	20	
Nausea	3 (23.1)**	3 (15)	0.65
Excessive flatulence	13 (100)	1 (5)	<0.001
Gastroesophageal reflux	7 (53.8)	4 (20)	0.06
Gastrointestinal bleeding	3 (23.1)	7 (35)	0.70
Spontaneous bacterial peritonitis	4 (30.7)	5 (25)	0.77

Results as **number (%); FMT=Fecal microbiota transplantation; SOC=Standard of care