

Supplementary Data

Material and Methods

Stable cirrhosis cohort was comprised of consecutive adult subjects (≥ 18 years of age) attending the outpatient clinic between April and July 2014. Patients in the following situations were excluded: hepatocellular carcinoma; insulin or thiazolidinedione therapy; interferon-based therapy over the last 30 days; or refusal or inability of the patient to understand the informed consent. Healthy controls were sex- and age-matched subjects evaluated during routine laboratory tests.

Results

Supplementary Table 1 Spearman's correlation analysis between calprotectin and demographic and laboratory variables

Variable	Calprotectin	
	<i>r</i>	<i>P</i> value
Age	0.085	0.229
Creatinine	-0.005	0.939
Leukocyte count	0.068	0.342
Platelets count	-0.076	0.287
AST	0.030	0.675
ALT	0.034	0.629
AP	-0.032	0.658
GGT	-0.079	0.269
Total bilirubin	0.028	0.696
Albumin	-0.085	0.230
INR	0.019	0.791
Sodium	-0.120	0.091
CRP	0.099	0.167
CLIF-SOFA	0.124	0.081
MAP	0.011	0.877
Child-Pugh score	0.137	0.052
MELD score	0.056	0.434

AST = aspartate transaminase; ALT = alanine transaminase; AP = alkaline phosphatase; GGT = gamma-glutamyltransferase; INR = international normalized ratio; CRP = C-reactive protein; CLIF-SOFA = chronic liver failure - sequential organ failure assessment; MAP = mean arterial pressure; MELD = model for end-stage liver disease.

Supplementary Table 2 Factors associated with ACLF at enrollment

Parameter	ACLF (<i>n</i> = 56)	Non-ACLF (<i>n</i> = 144)	<i>P</i> value
Age (years), mean ± SD	59.43 ± 11.62	56.46 ± 11.47	0.103
Male Gender, n (%)	49 (87.5)	94 (65.3)	0.002
Etiology of cirrhosis, n (%)			
Alcohol	29 (51.8)	77 (53.5)	0.830
Hepatitis C	15 (26.8)	43 (29.9)	0.667
Hepatitis B	2 (3.6)	8 (5.6)	0.729
Cryptogenic	1 (1.8)	7 (4.9)	0.446
Active alcoholism, n (%)	10 (17.9)	24 (16.7)	0.841
Propranolol, n (%)	23 (41.8)	63 (44.7)	0.717
Prior decompensation, n (%)	50 (89.3)	123 (85.4)	0.472
Complication at evaluation, n (%)			
Ascites	45 (80.4)	80 (55.6)	0.001
Hepatic encephalopathy	42 (75.0)	57 (39.6)	<0.001
UGIB	13 (23.2)	53 (36.8)	0.066
Infection, n (%)	24 (42.9)	55 (38.2)	0.545
Laboratory data			
Leukocyte count (x10 ⁹), median	8.00	6.23	0.001
Sodium (mEq/L), mean ± SD	134.54 ± 6.02	136.90 ± 4.71	0.010
Creatinine (mg/dL), median	2.3	1.0	<0.001
INR, median	1.51	1.44	0.042
Albumin (g/dL), mean ± SD	2.71 ± 0.68	2.60 ± 0.61	0.723
CRP (mg/L), median	27.0	14.9	0.003
Total bilirubin (mg/dL), median	2.15	2.25	0.483
Calprotectin (ng/mL), median	577.75	453.05	0.047
Child-Pugh score, mean ± SD	9.96 ± 2.07	8.96 ± 1.79	0.001
Child-Pugh C, n (%)	34 (60.7)	57 (39.6)	0.007
MELD score, mean ± SD	24.55 ± 7.69	14.96 ± 4.49	<0.001

ACLF = acute-on-chronic liver failure; SD = standard deviation; UGIB = upper gastrointestinal bleeding; INR = international normalized ratio; CRP = C-reactive protein; MELD = model for end stage liver disease

Supplementary Table 3 Factors associated with infection at enrollment

Parameter	Infection (<i>n</i> = 79)	Non- Infection (<i>n</i> = 121)	<i>P</i> value
Age (years), mean ± SD	57.86 ± 11.52	56.92 ± 11.63	0.574
Male Gender, n (%)	60 (75.9)	83 (68.6)	0.260
Etiology of cirrhosis, n (%)			
Alcohol	40 (50.6)	66 (54.5)	0.588
Hepatitis C	26 (32.9)	32 (26.4)	0.325
Hepatitis B	7 (8.9)	3 (2.5)	0.052
Cryptogenic	4 (5.1)	4 (3.3)	0.715
Active alcoholism, n (%)	8 (10.1)	26 (21.5)	0.037
Propranolol, n (%)	38 (50.0)	48 (40.7)	0.169
Prior decompensation, n (%)	71 (89.9)	102 (84.3)	0.259
Complication at evaluation, n (%)			
Ascites	62 (78.5)	63 (52.1)	<0.001
Hepatic encephalopathy	51 (42.1)	48 (60.8)	0.010
UGIB	7 (8.9)	59 (48.8)	<0.001
Laboratory data			
Leukocyte count (x10 ⁹), median	7.07	6.29	0.220
Sodium (mEq/L), mean ± SD	135.54 ± 5.63	136.69 ± 4.88	0.130
Creatinine (mg/dL), median	1.2	1.1	0.156
INR, median	1.54	1.38	0.001
Albumin (g/dL), mean ± SD	2.50 ± 0.71	2.72 ± 0.64	0.024
CRP (mg/L), median	39.4	10.6	<0.001
Total bilirubin (mg/dL), median	2.50	2.00	0.070
Calprotectin (ng/mL), median	581.30	446.50	0.012
ACLF, n (%)	24 (30.4)	32 (26.4)	0.545
Child-Pugh score, mean ± SD	9.92 ± 1.72	8.79 ± 1.92	<0.001
Child-Pugh C, n (%)	47 (59.5)	44 (36.4)	0.001
MELD score, mean ± SD	18.95 ± 6.58	16.80 ± 7.22	0.035

SD = standard deviation; UGIB = upper gastrointestinal bleeding; INR = international normalized ratio; CRP = C-reactive protein; ACFL = acute-on-chronic liver failure; MELD = model for end stage liver disease