

**Supplementary Table 1 Profile of mean RRI according to the clinical characteristics of study participants (*n* = 200)**

Parameters	mean $\pm$ SD of RRI	<i>P</i> value
Age <sup>a</sup>		
< 50 years	0.679 $\pm$ 0.0943	0.957
$\geq$ 50 years	0.679 $\pm$ 0.0928	
Gender <sup>a</sup>		
Male	0.683 $\pm$ 0.0942	0.227
Female	0.663 $\pm$ 0.0891	
Comorbidity <sup>a</sup>		
Yes	0.661 $\pm$ 0.1002	0.169
No	0.683 $\pm$ 0.0912	
BMI <sup>a</sup>		
Underweight/Normal	0.682 $\pm$ 0.0915	0.305
Overweight/Obese	0.662 $\pm$ 0.1031	
Abdominal circumference (cm)		
< 100 cm	0.634 $\pm$ 0.0891	< 0.001*
$\geq$ 100 cm	0.716 $\pm$ 0.1031	
Ascites <sup>a</sup>		
Yes	0.708 $\pm$ 0.0748	< 0.001*
No	0.585 $\pm$ 0.0796	
Ascites Grade <sup>a</sup> ( <i>n</i> = 153)		
II	0.685 $\pm$ 0.0759	< 0.001*
III	0.727 $\pm$ 0.0686	
GI Bleed <sup>a</sup>		
Yes	0.585 $\pm$ 0.0764	< 0.001*
No	0.740 $\pm$ 0.0739	
ACLF Grade <sup>d</sup> ( <i>n</i> = 27)		
I	0.767 $\pm$ 0.0361	0.928
II	0.770 $\pm$ 0.0408	
III	0.775 $\pm$ 0.0384	

Etiology of cirrhosis <sup>c</sup>		
Alcohol	0.690 ± 0.0900	0.234
NAFLD	0.665 ± 0.0948	
Viral	0.690 ± 0.0799	
Others	0.650 ± 0.1175	
AKI <sup>a</sup>		
No	0.602 ± 0.0802	< 0.001*
Yes	0.721 ± 0.0699	
AKI type <sup>c</sup> ( <i>n</i> = 129)		
Pre-renal AKI	0.632 ± 0.0759	< 0.001*
ATN-AKI	0.800 ± 0.0238	
HRS-AKI	0.736 ± 0.0338	
AKI stage <sup>c</sup> ( <i>n</i> = 129)		
I	0.705 ± 0.0762	< 0.001*
II	0.716 ± 0.0681	
III	0.756 ± 0.0480	
CTP Class <sup>c</sup>		
A	0.563 ± 0.0839	< 0.001*
B	0.654 ± 0.0836	
C	0.718 ± 0.0738	
MELD-Na Score <sup>a</sup>		
< 21	0.651 ± 0.0967	< 0.001*
≥ 21	0.700 ± 0.0851	
MAP (mmHg) <sup>b</sup>		
< 70	0.784 ± 0.0319	< 0.001*
≥ 70	0.664 ± 0.0895	
Heart Rate (bpm) <sup>b</sup>		
≤ 100	0.667 ± 0.0906	< 0.001*
> 100	0.783 ± 0.0328	

Outcome <sup>b</sup>		
In hospital Death	0.74 ± 0.047	< 0.001*
Discharged	0.64 ± 0.090	

<sup>a</sup>Independent sample's *t*-test; <sup>b</sup>Mann-Whitney *U* test; <sup>c</sup>One-way ANOVA; <sup>d</sup>Kruskal-Wallis test.

**Supplementary Table 2 Predictors of high RRI (> 0.73) in study participants (n = 200)**

Predictor	cOR (95%CI)	<i>P</i> value	aOR (95%CI)	<i>P</i> value
Age (in years)	1.00 (0.97-1.03)	0.811	0.99 (0.96-1.03)	0.88
Gender				
Male	1.651 (0.79-3.42)	0.177	1.26 (0.49-3.21)	0.62
Female	1	-	1	-
Sepsis				
Present	6.037 (3.13-11.61)	< 0.001	1.97 (0.87-4.46)	0.10
Absent	1	-	1	-
Ascites Grade				
Grade III	41.78 (9.42-185.18)	< 0.001	2.36 (0.29-18.99)	0.41
Grade II	14.00 (3.14-62.28)	< 0.001	1.312 (0.16-10.20)	0.79
No Ascites	1	-	1	-
ACLF Grade				
Grade III	4.77 (1.22-18.65)	0.02	0.48 (0.08-2.75)	0.41
Grade II	4.17 (1.04-16.73)	0.04	0.64 (0.12-3.29)	0.60
Grade I	8.95 (1.02-78.35)	0.04	1.07 (0.09-11.85)	0.95
No ACLF	1	-	1	-
AKI				
Present	35.81 (10.68-119.99)	< 0.001	11.52 (2.12-62.49)	0.005
Absent	1	-	1	-
MELD-Na	1.09 (1.04-1.14)	< 0.001	1.02 (0.96-1.08)	0.39
MAP (mmHg)	0.75 (0.65-0.86)	< 0.001	0.86 (0.76-0.98)	0.02

cOR: Crude odds ratio; aOR: Adjusted Odds Ratio; Nagelkaerke R<sup>2</sup>: 0.365, sepsis includes SBP and cellulitis.

**Supplementary Table 3 Predictors of mortality in study participants with AKI (n = 129)**

<b>Predictor</b>	<b>cOR (95%CI)</b>	<b>P value</b>	<b>aOR (95%CI)</b>	<b>P value</b>
Age (in years)	1.00 (0.97-1.03)	0.85	1.03 (0.99-1.07)	0.10
Gender				
Male	0.88 (0.33-2.02)	0.66	0.57 (0.19-1.73)	0.32
Female	1	-	1	-
ACLF Grade				
Grade-III	3.51 (0.88-14.02)	0.07	2.51 (0.44-14.26)	0.29
Grade-II	1.97 (0.52-7.43)	0.31	1.35 (0.25-7.21)	0.72
Grade-I	2.63 (0.46-15.05)	0.27	1.25 (0.16-9.29)	0.82
No ACLF	1	-	1	-
Etiology				
Alcohol	0.50 (0.14-1.73)	0.27	0.51 (0.11-2.21)	0.37
NAFLD	0.51 (0.13-1.93)	0.32	0.45 (0.10-2.00)	0.30
Viral	0.66 (0.17-0.54)	0.54	0.74 (0.16-3.30)	0.69
Others <sup>#</sup>	1	-	1	-
MELD-Na	1.01 (0.97-1.07)	0.464	0.98 (0.92-1.05)	0.68
MAP	0.86 (0.78-0.95)	0.005*	0.87 (0.77-0.98)	0.02*
Sepsis*				
Present	2.33 (1.15-4.73)	0.01*	1.80 (0.74-4.34)	0.19
Absent	1	-	1	-
RRI				
High (> 0.73)	3.92 (1.85-8.55)	< 0.001*	3.18 (1.35-7.49)	0.008*
Low (≤ 0.73)	1	-	1	-

#Others includes BCS and Cryptogenic cirrhosis; \*Sepsis includes those with SBP or cellulitis. cOR: Crude odds ratio; aOR: Adjusted odds ratio; Nagelkaerke R<sup>2</sup>: 0.219.