

Table S1: Comparison of baseline	‘Included’ patients N=114	‘Not included’ patients N=36	p-value
Male sex, n/total (%)	72/114 (63 %)	26/36 (72 %)	
Age, years	61 (52-67)	59 (48-70)	0.889
Body weight, kg	75 (68-85)	70 (63-82)	0.157
Body height, cm	175 (167-180)	174 (168-180)	0.808
BMI, kg/m²	24.8 (22.5-27.7)	23.2 (21.4-26.3)	0.079
APACHE II	22 (17-28)	22 (16-28)	0.850
SOFA	10 (8-13)	9 (7-15)	0.887
MELD	26 (22-32)	26 (23-31)	0.928
Child-Pugh	11 (10-13)	11 (10-13)	0.488
Child C, n/total (%)	98/114 (86 %)	29/36 (81 %)	
Co-morbidities	3 (2-3)	3 (2-3)	0.470
Days from hospital to ICU	2 (0-5)	3 (1-5)	0.672
mNUTRIC	6 (4-7)	6 (4-7)	0.375
Etiology of cirrhosis, n/total (%)	Alcoholic 78/114 (68 %) Viral 9/114 (8 %) Autoimmune 5/114 (4 %) Cryptogenic/NAFLD 22/114 (20 %)	Alcoholic 25/36 (69 %) Viral 4/36 (11 %) Autoimmune 1/36 (3 %) Cryptogenic/NAFLD 6/36 (17 %)	
Admission diagnoses, n/total (%)	Sepsis/Pneumonia 50/114 (44 %) Acute kidney failure/HRS 24/114 (21 %) Gastrointestinal bleeding 20/114 (18 %) Encephalopathy/delirium 20/114 (17 %)	Sepsis/Pneumonia 12/36 (33 %) Acute kidney failure/HRS 6/36 (17 %) Gastrointestinal bleeding 12/36 (33 %) Encephalopathy/delirium 6/36 (17 %)	
Length of ICU-stay, days	13 (6-22)	12 (6-25)	0.723
28-days mortality, n/total (%)	50/114 (44 %)	15/36 (42 %)	

3-months mortality, n/total (%)	69/114 (61 %)	22/36 (61 %)	0.871
Clinical cause of death, n/total (%)	Sepsis, Pneumonia 41/69 (61 %) Cardiocirculatory failure 13/69 (19 %) Gastrointestinal bleeding 11/69 (16 %) Central-nervous limitations 3/69 (4 %)	Sepsis, Pneumonia 10/22 (45 %) Cardiocirculatory failure 5/22 (23 %) Gastrointestinal bleeding 5/22 (23 %) Central-nervous limitations 2/22 (9 %)	
Baseline creatinine, mg/dL	1.8 (1.2-2.7)	1.7 (1.2-2.6)	0.572
Dialysis before ICU, n/total (%)	2/114 (1.8 %)	2/36 (5.6 %)	
Dialysis during ICU, n/total (%)	66/112 (59 %)	18/36 (50 %)	

BMI: Body mass index

APACHE: Acute physiology and chronic health evaluation

SOFA: Sequential organ failure assessment

MELD: Model of end-stage liver disease

ICU: Intensive care unit

NAFLD: Non-alcoholic fatty liver disease

HRS: Hepato-renal syndrome

Table S2 : Univariate analyses of various baseline parameters to predict 28-days mortality and 3-months mortality

Univariate logistic regression	28-days mortality			3-months mortality		
	Beta-coefficient	Standard error	p-value	Beta-coefficient	Standard error	p-value
Male sex	-0.241	0.391	0.537	-0.251	0.401	0.531
Age	0.017	0.016	0.274	0.031	0.016	0.053
Height	0.005	0.245	0.830	-0.006	0.025	0.824
Weight	-0.003	0.012	0.804	0.002	0.013	0.905
BMI	-0.024	0.046	0.605	0.013	0.046	0.784
Albumin	-0.153	0.251	0.544	-0.384	0.258	0.137
Co-morbidities	0.620	0.217	0.004	0.834	0.239	<0.001
Days from hospital to ICU	0.066	0.042	0.112	0.049	0.044	0.261
Interleukin 6	0.0004	0.0002	0.073	0.0003	0.0002	0.173
Creatinine	0.247	0.127	0.052	0.397	0.164	0.016
APACHE	0.162	0.037	<0.001	0.203	0.043	<0.001
SOFA	0.264	0.060	<0.001	0.335	0.074	<0.001
MELD	0.161	0.036	<0.001	0.178	0.039	<0.001
CHILD	0.550	0.138	<0.001	0.574	0.142	<0.001
NUTRIC	0.680	0.139	<0.001	0.791	0.151	<0.001
mNUTRIC	0.616	0.143	<0.001	0.773	0.151	<0.001

BMI: Body mass index
ICU: Intensive care unit
APACHE: Acute physiology and chronic health evaluation
SOFA: Sequential organ failure assessment
MELD: Model of end-stage liver disease
NUTRIC: Nutrition Risk in Critically ill
mNUTRIC: Modified Nutrition Risk in Critically ill

Table S3 : Multivariate analyses to predict 28-days mortality and 3-months mortality

	28-days mortality			3-months mortality		
Multivariate logistic regression	Beta-coefficient	Standard error	p-value	Beta-coefficient	Standard error	p-value
Model 1						
NUTRIC	0.668	0.268	0.013	0.783	0.319	0.014
APACHE II	-0.053	0.082	0.513	0.018	0.092	0.841
SOFA	0.001	0.111	0.990	-0.115	0.133	0.386
MELD	0.099	0.049	0.045	0.174	0.073	0.016
CHILD	0.124	0.199	0.533	-0.003	0.241	0.990
Co-morbidities	0.080	0.281	0.776	0.248	0.308	0.421
Creatinine				-0.290	0.210	0.166
Model 1						
mNUTRIC	0.518	0.293	0.077	0.528	0.341	0.122
APACHE II	-0.023	0.083	0.776	0.063	0.092	0.497
SOFA	0.025	0.109	0.816	-0.068	0.130	0.601
MELD	0.094	0.048	0.051	0.160	0.069	0.021
CHILD	0.157	0.196	0.422	0.058	0.233	0.805
Co-morbidities	0.123	0.289	0.672	0.362	0.311	0.245
Creatinine				-0.268	0.207	0.197

Model 2						
NUTRIC	0.552	0.149	<0.001	0.724	0.170	<0.001
MELD	0.093	0.047	0.048	0.154	0.068	0.025
CHILD	0.110	0.196	0.574	-0.004	0.233	0.987
Creatinine				-0.231	0.203	0.252
Model 2						
mNUTRIC	0.532	0.153	0.001	0.690	0.171	<0.001
MELD	0.095	0.046	0.039	0.149	0.065	0.022
CHILD	0.141	0.193	0.466	0.045	0.223	0.840
Creatinine				-0.217	0.198	0.273

NUTRIC: Nutrition Risk in Critically ill

mNUTRIC: Modified Nutrition Risk in Critically ill

APACHE: Acute physiology and chronic health evaluation

SOFA: Sequential organ failure assessment

MELD: Model of end-stage liver disease

Figure S1: Prognostic accuracy of baseline NUTRIC and mNUTRIC to predict indication for hemodialysis therapy during ICU-stay

