Supplementary Table 2. Predictors for the death of HE.

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First Author, Journal (year)	Country	Study design	Characteristics of patients	HE classify	Mortality of HE (Death/All)	Length of follow-up	Results of univariate analysis	Results of multivariate analysis
Bustamante, Journal of hepatology (1999)	Spain	Retrospective cohort	Liver cirrhosis with HE	Overt HE	73.9% (82/111)	1 year	Sex, HBV infection, Maximal grade of HE, Renal/electrolyte disturbances, Diuretic therapy, Ascites, TBIL, AKP, ALB, BUN, Na, K, PT, Child-Pugh score	Sex, TBIL, AKP, ALB, BUN, K
Fichet, Journal of critical care (2009)	France	Retrospective cohort	Chronic hepatic disease with overt HE	Overt HE	58.6% (41/70)	1 year	Simplified acute physiology score, ARF or HRS, Sepsis, ALB, Vasopressor use, Red blood cell transfusion,	Vasopressor use, ARF or HRS,
Cordoba, Journal of hepatology (2014)	Spain	Prospective cohort	Liver cirrhosis with HE	Overt HE	42.8% (197/460)	1 year	NA	Age, TBIL, INR, Creatinine, Na, and HE grade
Jeong, <i>Medicine</i> (2016)	Republic of Korea	Retrospective cohort	Alcoholic liver cirrhosis with HE	Overt HE	6.7% (7/105)	30 days	HRS, WBC, INR, TBIL, MELD score, CLIF-SOFA score, SIRS	CLIF-SOFA score, SIRS
Cui, Metabolic brain disease (2019)*	China	Retrospective cohort	Liver cirrhosis with HE	Overt HE	67.7% (412/609)	3 months	Age, Severe HE, HBV infection, Ascites, SBP, MELD score, Child-Pugh score, HRS, Hyponatremia, Upper gastrointestinal bleeding, High-protein diet, WBC, RBC, Hb, PLT, TBIL, ALT, AST, Na, Creatinine, BUN, PT, INR	RBC, TBIL, HE grade, HRS, Upper gastrointestinal bleeding
Current study	China	Retrospective cohort	Liver cirrhosis with HE	Overt HE	11.0% (20/183)	In hospitalizations	WBC, TBIL, ALB, AST, BUN, K, APTT, Child-Pugh score, MELD score	WBC, TBIL, ALB

Note: *: In this study, the patients with low serum ALB level were supplemented with HA.

Abbreviations: RBC: Red Blood Cell; ACLF: Acute-Chronic Liver Failure; MELD: Model for End-stage Liver Disease; ALB: Albumin; BUN: Blood Urea Nitrogen; TBIL: Total Bilirubin; Hb: Hemoglobin; Na: Sodium; CRP: C-Reactive Protein; ALT: Alanine amino Transferase; AST: Aspartate amino Transferase; PT: Prothrombin Time; PLT: Platelet; WBC: White Blood Cell; SBP: Spontaneous Bacteria Peritonitis; APTT: Activated Partial Thromboplastin Time; ARF: Acute Renal Failure; HRS: Hepatorenal Syndrome, CLIF—SOFA: Chronic Liver Failure-Sequential Organ Failure Assessment; SIRS: Systemic Inflammatory Response Syndrome; NA: Not Available; HA: Human Albumin.