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Molecular Ellipticity of Circulating Albumin-Bilirubin Complex Associates With Mortality in Patients With Severe Alcoholic Hepatitis

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1 **Molecular Ellipticity of Circulating Albumin-Bilirubin Complex Associates With Mortality**
2 **in Patients With Severe Alcoholic Hepatitis**

3 **Short Title:** *Optical activity of albumin-bilirubin complex*

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16 *research) grant no: 4903-C.*

17 **Abbreviations:** *AH, alcoholic hepatitis; SAH, severe alcoholic hepatitis; AC, alcoholic cirrhosis; HC, healthy*
18 *control; HBV, hepatitis B virus; HCV, hepatitis C virus; HIV, human immunodeficiency virus; CD, circular*
19 *dichroism; ME, molecular ellipticity; DP, discovery phase; VP, validation phase; mM, millimolar; MELD, Model*
20 *for End-Stage Liver Disease; MELD-Na, Model for End-Stage Liver Disease-Sodium; DF, Maddrey's discriminant*
21 *function; ABIC, Age Bilirubin INR Creatinine; ROC, Receiver operating characteristic; AUROC, area under ROC;*
22 *KM, Kaplan-Meier; ABiC, albumin binding capacity.*

23 **Disclosure:** *All authors have declared no conflict of interest.*

24 **Authors' contribution:**

25 *SD, JSM, SH, SSM, procured the samples. SD performed CD-UV analysis, determination of ABiC and*
26 *carried out data analysis. SD, JSM, SS, RM, TPS, SKS drafted the manuscript. This manuscript has been*
27 *seen and approved by all authors.*

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