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A decline of LAMP- 2 predicts Ursodeoxycholic acid response in Primary biliary cirrhosis

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Biochemical response to ursodeoxycholic acid (UDCA) in patients with primary biliary cirrhosis (PBC) is variable. We have previously reported that augmented expression of lysosome-associated membrane protein 2 (LAMP-2) was correlated with the severity of PBC. This study aimed to determine whether serum LAMP-2 could serve as a predictor of biochemical response to UDCA, which was assessed after 1 year of UDCA treatment in PBC patients by a retrospective analysis. We found that baseline of serum LAMP-2 level increased in PBC, especially in patients with stage III-IV ($p=0.010$) or $TBIL>1\text{mg/dL}$ ($p=0.014$). The basal level of serum LAMP-2 was higher in non-responders than that in responders, but the difference was statistically insignificant. However, after UDCA treatment, the serum LAMP-2 level decreased prominently in the first 3 months, which was more obvious in responders. Further studies showed that the 35% decline of LAMP-2 level after treatment for 3 months could be stated as an indicator of UDCA response with the sensitivity of 62.9% and 63.5%, specificity of 75.0% and 64.1% based on Paris criteria and Barcelona criteria respectively. Together, a decline in LAMP-2 might be a prognostic indicator to predict the response to UDCA in patients with PBC.

Biography

Jing-bo Wang completed his MD and PhD in the Department of Digestive Disease and Postdoctoral training in the Department of Pathology at Fourth Military Medical University. He is an Assistant Professor of Division of Hepatology, Xijing Hospital of Digestive Diseases. His main research focuses on the diagnosis, treatment and molecular mechanism involving in Primary Biliary Cirrhosis (PBC). He has published more than 13 papers in Journal of Proteomics, Scientific Reports and reviewed manuscripts for many international journals.

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