

Title: Biliary tract external drainage protects against intestinal barrier injury in hemorrhagic shock rats

Authors List: Lu Wang, Bing Zhao, Ying Chen, Li Ma, Er-Zhen Chen and En-Qiang Mao

Correspondence To: En-Qiang Mao, MD, PhD, Professor of Medicine, Chief, Department of Emergency Intensive Care Unit, Shanghai Ruijin Hospital, School of Medicine, Shanghai Jiao Tong University, Shanghai 200025, China. [maoeq@yeah.net](mailto:maoeq@yeah.net). Telephone: +86-21-64370045-665526.

The animal protocol was designed to minimize pain or discomfort to the rats. The rats were acclimatized to laboratory conditions (25 °C, 12h/12h light/dark, 50% humidity, ad libitum access to food and water) for one week prior to experimentation. All Rats were intraperitoneally anesthetized with 3 % sodium pentobarbital (0.2 ml/100 g) before surgery.