Author's response to reviews

Title: NGAL as a possible biomarker for sepsis-induced kidney failure: evaluating changes in NGAL expression in a rat model of acute kidney injury

Authors:

Mei Han (apple91102@163.com)
Ying Li (yinglihebei@163.com)
Maodong Liu (lmdgxh@126.com)
Yingmin Li (liyingmin888@hotmail.com)
Bin Cong (hbydcongbin@126.com)

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Author's response to reviews: see over
Dear editor,

We would like to submit the manuscript entitled “Renal neutrophil gelatinase associated lipocalin expression in lipopolysaccharide-induced acute kidney injury in the rat” to BMC Nephrology as a regular article. This is an original work of our institute and has not been published, and it will not be submitted or published elsewhere. Please let me introduce some elementary knowledge of our study.

Neutrophil gelatinase associated lipocalin (NGAL) has been demonstrated to be a highly predictive biomarker of acute kidney injury (AKI). Based on the available evidence, the use of humoral NGAL as a marker of septic AKI is promising but requires further investigation. In particular, the relationship between humoral NGAL, NGAL expression and renal injury requires additional clarification. However, few studies have specifically investigated the expression of NGAL in renal tissues during sepsis. Thus, in this study we investigate the pattern of renal NGAL expression, and to explore the relationship between renal inflammation mediators such as TNFα and IL-6, and plasma/urinary NGAL in a rat model of sepsis-induced kidney injury. We first expound the temporal changes and biology sources of NGAL gene expression in the tubular epithelium occurs following LPS-treatment, and this finding is coupled with the observation of renal inflammation and injury. Only uNGAL levels accurately reflect the changes of NGAL mRNA.

Thank you very much for your consideration. If you have any questions about my submission, please contact me.

Sincerely yours,

Ying Li, Ph.D
Department of Nephropathy,
The 3rd Hospital of Hebei Medical University,
Phone: +86-311-66781215
Fax: +86-311-66781215
E-mail: yinglihebei@163.com