

## **A point by point response to the reviewers' comments**

**We had revised all the paper according to your advice. Answer a few questions of yours:**

### **COMMENTS TO AUTHORS**

This is a well written and planned study demonstrating the protective effects of hydrogen sulfide (H<sub>2</sub>S) in gastric stress lesions in rats. The protective effects of H<sub>2</sub>S seem to arise from modulation of K(ATP) channel and the NF-κB dependent pathway. Major comments 1. The authors investigated the dose depended effect of K(ATP) channels by injecting GI for 100umol and 150 umol. However, they did not examine the dose dependent effects for NF-κB pathways. Is there any reason for this? 2. Is there any data on the histopatholgocial examinations?

1. The authors investigated the dose depended effect of K(ATP) channels by injecting GI for 100umol and 150 umol. However, they did not examine the dose dependent effects for NF-κB pathways. Is there any reason for this?

**Answer:**Thank for your good advice! We should examine the dose dependent effects for NF-κB pathways. But the focus of this paper is to clarify the mechanism that exogenous H<sub>2</sub>S plays a protective role against RWIS injury in rats, possibly through the NF-κB dependent pathway. We speculate that there should be a dose dependent effect.

2. Is there any data on the histopatholgocial examinations?

**Answer:**Thank for your good advice! In future studies, we will add to the histopatholgocial research methods to better illustrate the results of our study.