

Format for ANSWERING REVIEWERS



February 2, 2017

Dear Editor,

Please find enclosed the edited manuscript in Word format (file name: 31762-review.doc).

Title: Artificial liver support in pigs with APAP-induced acute liver failure

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Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 31762

The manuscript has been improved according to the suggestions of reviewers:

1 Format has been updated

2 Revision has been made according to the suggestions of the reviewer

reviewer No. 1568246

- (1) I revised the paper, and describe the artificial liver system in **Introduction** paragraph 4,line2.
- (2) Actually, We did a pre-experiment and proved it to be repeatable and reversible. The pre-experiment used 20 pigs to testify a loading dose of 0.3 g/kg APAP and maintenance dose of 3.0 g/h until 12 h is the best dose to set up the model.
- (3) Yes,I have the detail data,we collected blood samples every 2 hours ,but we showed the data at intervals (before administration, 20h after administration and 28h after administration) .I can sent you the detail data.
- (4) I made a mistake in the abstract and it had been collected. Sixteen pigs had administrated acetaminophen (APAP) and randomly assigned to two groups; 11 were in the experimental group, in which a treatment procedure was performed, whereas the rest (n=5) were included in the control group. Treatment was started after dosing acetaminophen for 20 h and continued for 8 h. Sixteen APAP-induced ALF porcine model were set up after 20 hours of administration,so the serum biochemical parameters are approximately equal in experimental and control animals.
- (5) I have revised the description of the liver and the hepatocytes under light microscopy.

Minor points:

- (1) Of the eleven porcine models in the treatment group, five survived over than 84 h. Four porcine models in the treatment group survived for more than 4 days and were sacrificed.The control group porcine models were all died.
- (2) I corrected the mistake in **Abstract** paragraph 3,line6.

- (3) I corrected the mistake in **Core tip**.
- (4) Crystalloid solutions were given intravenously at 5 ml/kg/h throughout the study period. So the volume depends on porcine weight.

reviewer No. 1221925

- (1) Yes, I had measured serum acetaminophen concentrations, I can send the detail data to you if you want.
- (2) I revised the paper, and describe the artificial liver system in **Introduction** paragraph 4, line 2.
- (3) Actually, we purchased 16 experimental pigs at one time, so we assigned 5 pigs as control group, 11 pigs as experimental group. 😊

3 References and typesetting were corrected

Thank you again for publishing our manuscript in the *World Journal of Gastroenterology*.

Sincerely yours,

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