

PEER-REVIEW REPORT

Name of journal: World Journal of Gastrointestinal Surgery

Manuscript NO: 62517

Title: Novel roles of lipopolysaccharide and TLR4/NF- κ B signaling pathway in the inflammatory response to liver injury in Budd-Chiari syndrome

Reviewer's code: 00003629

Position: Editorial Board

Academic degree: MD

Professional title: Emeritus Professor

Reviewer's Country/Territory: Greece

Author's Country/Territory: China

Manuscript submission date: 2021-01-13

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-06-22 10:10

Reviewer performed review: 2021-07-05 16:45

Review time: 13 Days and 6 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The article by Li J et al entitled "Novel roles of LPS and TLR4 / NF- κ B signaling pathway in the inflammatory response to liver injury in Budd-Chiari syndrome" is an extensive study in experimental animals and patients with BCS, investigating the causes of hepatocellular damage associated with this condition. The involvement of the TLR4 / NF- κ B pathway in the hepatocellular inflammation is already known in virally induced liver damage but it is originally described for BCS in this article. The work has been carefully executed. General Comments: 1. Typing errors. English language corrections 2. The article contains 6 Tables and 10 Figures. Figures in the text should be no more than 3 and no more than 2-3 Tables. All other material should appear as a Supplement Major Comments: 1. (Page 7, Line 9): Please omit the phrase. 2. (Page 7, Line 10): ... and usually caused by myeloproliferative liver diseases. 3. (Page 8, Lines 6-9): The question is whether LPS increase is a cause or result of BCS. The odds are that LPS is an effect of liver outflow obstruction. Many other causes of LPS increases in the blood, as gram-negative infections, are not associated with BCS in patients with a normal or cirrhotic liver. 4. (Page 9, Lines 13-15): Authors should clarify the exact placing of the suture closing of the IVC, in relation to hepatic venous outflow. 5. (Page 11, Lines 3): In a sentence following the title, please write: "By an RT-qPCR, β -actin, TLR4, NF- κ Bp65, IL-2, TNF- α and IFN- γ was measured". 6. (Page 11, Lines 16): Please write: "Western blot (WB) analysis was performed to detect the protein levels of β -actin, TLR4, NF- κ Bp65, IL-2, TNF- α , IFN- γ ". 7. (Page 13, Lines 15): Biochemical measurements usually are not distributed normally. Authors should verify that their data is normally distributed, before expressing them as mean \pm 1SD values. Otherwise, their expression should be as medians (IQR) and be compared by non-parametric statistics. 8. (Page 15, Line 8): Please omit the "F" value at this point and everywhere else in the text. 9. (Page 19, Line 8):



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Please explain abbreviations when first mentioned in the text. Minor Comments: 1. (Page 1, Line 7): Please replace “in” with “associated with”. 2. (Page 10, Line 21): “attempted” has an ambiguous meaning. It may mean that the azo reagents were or were not finally mixed. Please explain what was finally done. 3. (Page 15, Line 2): Please write: “Hepatic and plasma levels of LPS in rats with BSC”. 4. (Page 18, Line 4): BCS-induced liver damage. 5. (Page 18, Line 7 & 9): HV outflow. 6. (Page 19, Line 2): ...but could not completely resolve.... 7. (Page 19, Line 8): Relatively small. 8. (Page 19, Line 14): Becomes markedly elevated in BCS