# PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastrointestinal Surgery  
**Manuscript NO:** 62517  
**Title:** Novel roles of lipopolysaccharide and TLR4/NF-κB 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
- [ ] Grade A: Excellent  
- [ ] Grade B: Very good  
- [Y] Grade C: Good  
- [ ] Grade D: Fair  
- [ ] Grade E: Do not publish

## Language quality
- [ ] Grade A: Priority publishing  
- [Y] Grade B: Minor language polishing  
- [ ] Grade C: A great deal of language polishing  
- [ ] Grade D: Rejection

## Conclusion
- [ ] Accept (High priority)  
- [ ] Accept (General priority)  
- [Y] Minor revision  
- [ ] Major revision  
- [ ] Rejection

## Re-review
- [Y] Yes  
- [ ] No

## Peer-reviewer statements
- Peer-Review: [Y] Anonymous  
- Onymous  
- Conflicts-of-Interest: [ ] Yes  
- [Y] No
SPECIFIC COMMENTS TO AUTHORS
The article by Li J et al entitled "Novel roles of LPS and TLR4 / NF-κB 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-κB 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-κBp65, 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-κBp65, 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±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):