

ANSWERING REVIEWERS



Dear Editor,

Please find enclosed the edited manuscript in word format (file name: 21860-Review.doc).

Title: Role for urinary biomarkers in diagnosis of acute rejection in the transplanted kidney

Author: Basma Merhi, George Bayliss, Reginald Gohh

Name of Journal: *World Journal of Transplantation*

ESPS Manuscript NO: 21860

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

Dear Reviewers:

Thank you for taking the time to review our manuscript. We appreciate all your comments and we have made the following changes to the manuscript:

- 1- We revised the introduction and made it shorter.
- 2- We added the following studies related to the NGAL and KIM1 markers:

Ramirez-Sandoval JC, Herrington W, Morales-Buenrostro LE: Neutrophil gelatinase-associated lipocalin in kidney transplantation: A review. *Transplant Rev (Orlando)*,2015;Jul; **29**(3):139-44 [PMID: 26071983]

Rahimzadeh N, Otukesh H, Hoseini R, Sorkhi H. Are serum and urine neutrophil gelatinase-associated lipocalin predictive of renal graft function in short term? *Pediatr Transplantat* 2012;Nov;**16** (7):796-802 [PMID: 22943581]

Bolignano D, Donato V, Coppolino G, Campo S. Neutrophil gelatinase-associated lipocalin (NGAL) as a marker of kidney damage. *Am J Kidney Dis*. 2008 Sep; **52**(3): 595-605 [PMID:18725016]

Szeto C, Kwan B, Lai K, Lai F. Urinary Expression of Kidney Injury Markers in Renal Transplant Recipients . *Clin J Am Soc Nephrol* 5: 2329-2337, 2010.

- 3- We added the following meta-analysis on the perforin and Granzyme B.

Heng B, Li Y, Shi L, Du X. A meta-analysis of the significance of Granzyme B and Perforin in noninvasive diagnosis of acute rejection after kidney transplantation. *Transplantation* 2015; **99**:1477-1486 [PMID: 25643139]

- 4- We added the following study by Matignon et al. as suggested:

Matignon M, Ding R, Dadhania D, Mueller F, Hartono C. Urinary cell mRNA profiles and differential diagnosis of acute kidney graft dysfunction. *J Am Soc Nephrol* 2014: 1586-1597

[PMID: 24610929]

- 5- We fixed all the typing errors that required correction.
- 6- We did not include the study “ Discovery and validation of a molecular signature for the noninvasive diagnosis of human renal allograft fibrosis ” as our discussion in the mini-review was mostly on acute allograft rejection rather than allograft fibrosis

Sincerely,

Basma Merhi, MD
George Bayliss, MD
Reginald Gohh, MD