Author’s response to reviews

Title: Analysis of renal dysfunction in orthopaedic patients

Authors:

Konstantinos Kateros (kkateros@hotmail.com)
Christos Doulgerakis (cdoul@yahoo.com)
Dr Spyridon Galanakos (spyros_galanakos@yahoo.gr)
Vasileios I Sakellariou (b_sakellariou@yahoo.com)
Stamatios A Papadakis (snapmd@gmail.com)
George A Macheras (g macheras@gmail.com)

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Author’s response to reviews:

Dear Hayley Henderson,

Thank you very much for your interest and concern. Also thank you for the reviewers’ considerations. Corrections made, as requested.

1. Format abstract according to the instructions for authors

Background: This retrospective study was undertaken to determine the incidence of renal dysfunction (RD) and to identify potential risk factors contributing to development of RD in orthopaedic population.

Methods: A total of 1025 patients were admitted in our institution over a period of one year with various indications. Eight hundred and ninety-three patients (87.1%) had a surgical procedure. The overall incidence of RD (acute or acute on chronic renal failure) in trauma patients was 8.9%. Sixty-four patients (7.1%) developed acute renal failure and 16 patients developed acute on chronic renal failure. There were 42 (52.5%) male and 38 (47.5%) female with a mean age of 72 years (range: 47 to 87 years).

Results: Sixty-six (82.5%) patients, was gained to return to prior renal function. Perioperative dehydration (p=0.002), history of diabetes mellitus (p=0.003), pre-existing renal dysfunction (p=0.004), perioperative shock (p=0.021) and administration of non-steroid anti-inflammatory drugs (NSAIDs) (p=0.028) or nephrotoxic antibiotics (p=0.037) were statistically significantly correlated with the development of postoperative RD and failure to gain the preoperative renal function.

Conclusion: We conclude that every patient with risk factor for postoperative RD should be under closed evaluation and monitoring.

2. Ethics

Methods: The appropriate ethics committee approved this retrospective case series.

3. Authors’ contributions
KK, CD and SG participated in the design of the study, data acquisition and analysis and writing of this manuscript. SG, KK and VS participated in the analysis and writing of this paper. VS participated in the analysis and also in revising critically the manuscript. All authors read and approved the final manuscript.

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Kind regards.
Yours Sincerely
Spyridon P. Galanakos, M.D, PhD
Department of Trauma and Orthopaedics, General Hospital of Livadia, Greece