Plasma Exchange in Prevention and Treatment of COVID-19 related Acute Kidney Injuries

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Abstract

The ongoing pandemic of COVID-19 infection with a tendency to develop its second wave and the continuing severity of its course indicate that no effective remedies have yet been found for its treatment. Acute renal failure remains one of the leading causes of mortality, reaching 57% among hospitalized patients.

Endotoxicosis is the main cause of the kidney damage severity. There are still no methods of specific therapy for COVID infection. Renal replacement therapy removes the accumulated fluid but is unable to restore kidney function. However, not all toxic products are removed, and the mortality rate remains quite high. Therefore, the most pathogenetically justified is the use of plasma exchange with replacement of the removed plasma with freshly frozen donor plasma. Its timely use not only stops the progression of the kidney damage, but also prevents of later complications development.

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Biography:

Professor Valerii A. Voinov – DM, PhD, head of Therapeutic Apheresis Department of the First I.P. Pavlov State Medical University of St. Petersburg. He is the author of more than 450 scientific works, including 18 monographs published both in Russia and abroad, 25 inventions and patents. Hi is a member of National Russian society of Apheresis therapy, honorable president of Romanian Therapeutic Apheresis society.

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