

Study Of Prevalence And Clinical Spectrum Of Septic Acute Kidney Injury (Saki) In Steroid Responsive Nephrotic Syndrome

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Systemic inflammatory response syndrome (SIRS) insult in the nephrotic background initiates interplay between inflammation and oxidative stress, leading to septic acute kidney injury (SAKI). The reported prevalence of AKI in last century is 30% in nephrotic syndrome. Most paediatric studies are related to AKI in nephrotic syndrome while there is hardly any data on SAKI in steroid-responsive nephrotic syndrome. The present study was conducted to study the prevalence and clinical profile of SAKI in nephrotic syndrome. It was prospective observational study among children upto 12 years of age. pRIFLE and KDIGO criteria was used for AKI staging while SIRS criteria helped to analyse different categories of sepsis (Sepsis, Severe sepsis and Septic shock). Among the total 235 admitted steroid responsive nephrotic patients, 64 patients (27.23%) developed AKI while 59 of them had features of SAKI. So, the proportion of SAKI was 92.10% (59 of 64). Severity of AKI was found to be increased as per progression of sepsis to severe sepsis to septic shock. 15.3% SAKI cases were positive for blood culture (M.C.- Pneumococci) while 8.5% positive for urine culture (M.C.- E.Coli). Clinical features included features of peritonitis or

sepsis followed by prolongation of the oliguric phase, development of hypertension, azotemia and congestive heart failure in some cases. Diuresis followed with subsidence of edema, CCF, azotemia. Hypertension persisted for variable period. Morbidity and mortality was observed to be more in septic AKI group, compared to non-septic AKI. Hence, sepsis & SAKI are the most dreadful complication of nephrotic syndrome.

Biography:

Dr. Debanjan Sinha has completed his MBBS degree (undergraduate) from WBUHS (West Bengal, India) university and currently pursuing M.D. (post-graduate) degree from the same university. He has already published 2-3 papers in national journals and has received one national and zonal level award, presenting his original research work. He is the disciple of Prof. Sanat Kumar Ghosh (2nd author) who is the Principal of his institute and has published a number of papers in different journals and recipient of different awards.