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## **Impact of COVID-19 on the clinical course of nephrotic syndrome in children: a single-center study**

**Minji Park<sup>1</sup>**, Hee Sun Baek<sup>2</sup>, Min Hyun Cho<sup>1</sup>

<sup>1</sup>Department of Pediatrics-Nephrology, Kyungpook National University Hospital, Korea, Republic of

<sup>2</sup>Department of Pediatrics-Nephrology, Yeungnam University Medical Center, Korea, Republic of

**Objectives:** Children with nephrotic syndrome may experience disease relapse or aggravation triggered by various viral infections. Limited studies on the clinical implications of the coronavirus disease 2019 (COVID-19) pandemic in children with nephrotic syndrome have been published worldwide. Therefore, this study aimed to investigate the effects of COVID-19 on the clinical course of nephrotic syndrome in children.

**Methods:** The medical records of 59 patients with idiopathic nephrotic syndrome who visited our hospital between February and June 2022 were retrospectively analyzed.

**Results:** Twenty of the total 59 patients with nephrotic syndrome were diagnosed with COVID-19 during the study period. The mean age at the time of the diagnosis of nephrotic syndrome and COVID-19 in all 20 patients was  $4.6\pm 3.5$  and  $8.9\pm 3.9$  years, respectively. Three patients (15%) were diagnosed with nephrotic syndrome relapse during COVID-19 and the relapse rate was similar to them without COVID-19 (20.5%, 8/39 patients). At the time of the COVID-19 diagnosis, fever (85%) and cough (40%) were the most common symptoms. After the diagnosis of COVID-19, all patients showed improvement with symptomatic treatment, including antipyretic analgesics and cold medicine. None of the critical patients required hospitalization or oral antiviral medications.

**Conclusions:** Despite the use of immunosuppressants, the clinical manifestations of COVID-19 in children with nephrotic syndrome were not severe and are expected to be similar to that in the general population. The relapse rate of nephrotic syndrome in children with COVID-19 was also not different from them without COVID-19.