



Transient Fanconi Syndrome in a Child with Acute COVID-19 Infection: Authors' Reply

Nisha Krishnamurthy¹ · Aoyon Sengupta²

Received: 28 February 2022 / Accepted: 10 March 2022 / Published online: 15 June 2022
© The Author(s), under exclusive licence to Dr. K C Chaudhuri Foundation 2022

To the Editor: This is regarding the query [1] related to our article, “Transient Fanconi Syndrome in a child with acute COVID-19 infection” [2]. Our case presented with all clinical and biochemical features of proximal renal tubular acidosis. The literature reveals that similar presentations have been documented in adults [3], mostly transient in nature, depending on the extent of renal injury. We have not documented direct renal invasion by the virus due to lack of such diagnostic facilities, although studies done in China have revealed direct viral invasion and injury, which may clinically manifest as proximal renal tubular acidosis. Hyperviscosity can cause a decrease in renal function with decreased creatinine clearance and rise in serum creatinine level. The serum creatinine levels were normal in our patient. Polyuria, which we have documented in our case, is not one of the manifestations of hyperviscosity-mediated renal dysfunction. Furthermore, the child we have reported had a hemoglobin value of 11 g/dL, with a hematocrit of 32%, which is appropriate for age, and hence, could not have contributed to hyperviscosity leading to renal injury [4].

Declarations

Conflict of Interest None.

References

1. Sookaromdee P, Wiwanitkit V. Transient fanconi syndrome in a child with acute COVID-19 infection: correspondence. *Indian J Pediatr.* 2022. <https://doi.org/10.1007/s12098-022-04196-y>
2. Sengupta A, Krishnamurthy N, Khosla I, Udani S. Transient fanconi syndrome in a child with acute COVID-19 infection. *Indian J Pediatr.* 2021;88:1260.
3. Wan ER, Woolfson RG, Greenwood R, Walsh SB. Transient renal tubular syndromes associated with acute COVID-19 disease. *Kidney Int Rep.* 2020;5:1610–1.
4. Sugimori H, Tomoda F, Koike T, et al. Increased blood viscosity is associated with reduced renal function and elevated urinary albumin excretion in essential hypertensives without chronic kidney disease. *Hypertens Res.* 2013;36:247–51.

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

✉ Nisha Krishnamurthy
nissus.9@gmail.com

¹ Department of Pediatric Nephrology, SRCC Children's Hospital, Unit of Narayana Health, Mumbai, Maharashtra 400011, India

² Department of Pediatric Critical Care, SRCC Children's Hospital, Unit of Narayana Health, Mumbai, Maharashtra, India