



2200 gram newborn survives multi-system inflammatory syndrome, a complication of COVID-19 in kids

A new born delivered in a private nursing home was referred to VishwaRaj hospital on the second day itself for multiple respiratory problems. Serial x-rays showed worsening of the lung conditions and the new born was kept on ventilator support. Investigations revealed positive for anti-SARS CoV2 antibodies in new born and inflammatory markers such as cytokine storm were increased which are generally observed in adults. The new born was also investigated for common infections which came out to be negative.

The new born was treated as per protocol, given surfactant, intravenous immunoglobulin, and steroids, to which it responded well and was discharged in stable condition. MISC is a known complication in older kids which results due to immune dysregulation where most of the kids are positive for Anti-SARS CoV2 antibodies and they are present in cytokine storm-like image. Here the new born had rapid deterioration in health status and hence we suspected it could be related to COVID and MIS C, the investigations were supportive, the new born responded to our standard treatment. In the wake of the COVID pandemic, the above scenario mandates us to suspect COVID-19 and MIS C in majority of new born which can affect their health and worsen the condition.

This kind of presentation in new born can also be called foetal inflammatory response syndrome as the new born did not have acute COVID infection but it might have contracted COVID as the new born was prone to exposure in utero. Though number of such cases is at minimum presently, we can see a spike in such cases in the near future.



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