



## TITLE: The Effect of COVID19

**Name:** Palanikumar Balasundaram

**Affiliation:** Fellow in Neonatal Perinatal Medicine, Children's Hospital at Montefiore

**Country:** United States of America

**Email ID:** dr.palanikumar82@gmail.com

### ABSTRACT

Despite ongoing research and recent discoveries, there remains a paucity of data regarding COVID-19 and its implications for pregnant women, particularly its effects on the developing fetus. To date, there are a limited number of articles available regarding the utility of Extra Corporeal Membrane Oxygenation (ECMO) for cardio-respiratory support of pregnant women during the perinatal period. Additionally, there are only a few case reports detailing the delivery management of a baby born to a mother on ECMO support. NICU admissions, prematurity, low birth weight, and cesarean section are common expectations with deliveries in mothers with SARS CoV-2. The risk of preterm delivery is 20%. The neonate born to a mother with SARS-CoV-2 needs to be tested for reverse transcriptase-polymerase chain reaction (RT-PCR) for SARS-CoV-2 at 24 and 48 to 72 hours of life. Neonates should be assessed for clinical features of SARS-CoV-2 infection, such as fever, cough, nasal congestion, respiratory distress, decreased activity, and feed intolerance. ECMO use during pregnancy theoretically can be associated with a high risk for maternal and fetal bleeding complications. Here, we report a case of a premature, low birth weight neonate delivered by a 32-year-old woman while on ECMO due to severe acute respiratory distress syndrome resulting from COVID-19 infection.

### BIOGRAPHY

Palanikumar Balasundaram has completed his dual residency in pediatrics in India and United states of America. He has 13 years of experience in Level 2 to 3 NICU from 3 different hospitals in India and United Arab Emirates. He also has MRCPCH from London. He is currently doing fellowship in Neonatal Perinatal medicine at Children's Hospital at Montefiore, New York. He has over 20 publications that have been cited over 60 times. He has been serving as an editorial board member of reputed journals.

**Presenter Name:** Palanikumar Balasundaram

**Mode of Presentation:** Oral

**Contact number:** +1 (631) 214 0110

