

## ***Abstract from Current Literatures***

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### **Duration of Viral Clearance in Children with SARS-CoV-2 Infection in Rajasthan, India**

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**Objective:** To study the clinical and laboratory profile and to assess period for viral clearance in COVID 19 children.

**Methods:** We reviewed hospital records of children (<18 years) admitted from 1 April to 31 May, 2020 at a tertiary-care public hospital and identified those positive for severe acute respiratory syndrome corona virus (SARS-CoV-2) by RT-PCR of respiratory secretions.

**Results:** 81.2% of the 85 children studied were asymptomatic and 3 (8.5%) died. Severe lymphopenia (43.8%), raised C-reactive protein (93.8%), raised erythrocyte sedimentation rate (75%) and high (>500ng/mL) levels of D-dimer (37.5%) were common. Median (IQR) duration of viral shedding was 7 (5-10) days, with range of 2 to 45 days; 96.3% had viral clearance within 14 days.

**Conclusions:** Majority of children aged <18 years with SARS-CoV-2 infection had viral clearance within 14 day

### **Neonates Born to Mothers with COVID-19: Data from the Spanish Society of Neonatology Registry**

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**Objectives:** To describe neonatal and maternal characteristics of the largest prospective cohort of

newborns from mothers with coronavirus disease 2019 (COVID-19), the data of which were prospectively collected from the nationwide registry of the Spanish Society of Neonatology.

**Methods:** Between March 8, 2020, and May 26, 2020, the data of 503 neonates born to 497 mothers diagnosed with COVID-19 during pregnancy or at the time of delivery were collected by 79 hospitals throughout Spain.

**Results:** Maternal symptoms were similar to that of the general population, with 5% of severe forms. In 45.8% of asymptomatic women at the time of delivery, severe acute respiratory syndrome coronavirus 2 infection was detected because of recommendations established in Spain to perform COVID-19 screening in all women admitted to the hospital for labor. The rate of preterm deliveries was 15.7% and of cesarean deliveries, 33%. The most common diagnostic test was detection of viral RNA by polymerase chain reaction of nasopharyngeal swabs at a median age of 3 hours after delivery (1–12 hours). Almost one-half of neonates were left skin-to-skin after delivery, and delayed clamping of umbilical cords was performed in 43% of neonates. Also, 62.3% of asymptomatic neonates were managed with rooming-in. Maternal milk was received by 76.5% of neonates, 204 of them as exclusive breastfeeding.

**Conclusions:** The current study indicates that there is no need for separation of mothers from neonates, allowing delayed cord clamping and skin-to-skin contact along with maintenance of breastfeeding in a high percentage of newborns from mothers with COVID-19.

**Association of the Timing of School Closings and Behavioral Changes with the Evolution of the Coronavirus Disease 2019 Pandemic in the US**

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**Importance:** The consequences of school closures for children's health are profound, but existing evidence on their effectiveness in limiting severe acute respiratory syndrome coronavirus 2 transmission is unsettled.

**Objective:** To determine the independent associations of voluntary behavioral change, school closures, and bans on large gatherings with the incidence and mortality due to coronavirus disease 2019 (COVID-19).

**Design, Setting, and Participants:** This population-based, interrupted-time-series analysis of lagged independent variables used publicly available observational data from US states during a 60-day period from March 8 to May 18, 2020. The behavioral measures were collected from anonymized cell phone or internet data for individuals in the US and compared with a baseline of January 3 to February 6, 2020. Estimates were also controlled for several state-level characteristics.

**Exposures:** Days since school closure, days since a ban on gatherings of 10 or more people, and days since residents voluntarily conducted a 15% or more decline in time spent at work via Google Mobility data.

**Main outcomes and measures:** The natural log of 7-day mean COVID-19 incidence and mortality.

**Results:** During the study period, the rate of restaurant dining declined from 1 year earlier by a mean (SD) of 98.3% (5.2%) during the study period. Time at work declined by a mean (SD) of 40.0% (7.9%); time at home increased by a mean (SD) of 15.4% (3.7%). In fully adjusted models, a delay of 1 day in implementing mandatory school closures was associated with a 3.5% reduction (incidence rate ratio [IRR], 0.965; 95% CI, 0.946-0.984) in incidence, whereas each day of delay in behavioral change was associated with a 9.3% reduction (IRR, 0.907; 95% CI, 0.890-0.925) in incidence. For mortality, each day of delay in school closures was associated with a subsequent 3.8% reduction (IRR, 0.962; 95% CI, 0.926-0.998), and each day of delay in behavioral change was associated with a 9.8% reduction (IRR, 0.902; 95% CI, 0.869-0.936). Simulations suggest that a 2-week delay in school closures alone would have been associated with an additional 23 000 (95% CI, 2000-62 000) deaths, whereas a 2-week delay in voluntary behavioral change with school closures remaining the same would have been associated with an additional 140 000 (95% CI, 65 000-294 000) deaths.

**Conclusions:** In light of the harm to children of closing schools, these findings suggest that policy makers should consider better leveraging the public's willingness to protect itself through voluntary behavioral change.