Amid the coronavirus disease 2019 (COVID-19) pandemic, life goes on and new babies are born. Relatively mild disease and the high proportion of asymptomatic infections in children and adolescents with COVID-19 offer some degree of relief, even though these facts themselves increase infection control difficulties in communities and health care centers. Aside from the favorable course of COVID-19 in the pediatric population, we, as pediatricians, are involved with some pregnancy and postnatal care issues. Therefore, the challenging situation of the pandemic should not be disregarded.

Numerous questions regarding pregnancy and COVID-19 have been raised, ultimately starting from reproductive decision-making (“Shall I/we plan to conceive during this pandemic?”). Many questions remain unanswered and a large portion cannot be answered easily, which means that shared decisions should be made using interim knowledge and available guidelines. Of major concern is the possibility of vertical transmission and the perinatal outcome is generally not poor compared to pregnancies without COVID-19, as long as infection control measures are well kept.

Concerns have arisen in the coronavirus disease 2019 (COVID-19) pandemic upon pregnancy and postnatal care starting from reproductive decision-making. To the utmost knowledge, reproductive decisions should not be based primarily on health-related COVID-19 concerns, as the possibility of vertical transmission is negligible and the perinatal outcome is generally not poor compared to pregnancies without COVID-19, as long as infection control measures are well kept.

Interesting results of the study of Sharma et al. included comparably high percentages of preterm deliveries (14.6%) and caesarean sections (56.1%) (Fig. 1). Preterm delivery is often considered when the mother has pneumonia and when the delivery would help the course of COVID-19. Regardless, the majority of the mothers in this study did not have moderate to severe COVID-19-related conditions. Therefore, it would be helpful to know if the authors presented the usual rate of preterm births in the institution. In addition, many relevant studies are from developed countries; the conditions may be quite different in developing countries in terms of preterm delivery. Referentially, the overall preterm delivery rates in the United States from two large cohort studies were 7.2% to 12.9%.

A high rate of caesarean section has been repeatedly reported globally since the initial phases of the pandemic. Due to the nature of the virus, when moderate to severe pneumonia develops it is natural to think labor with maximum effort is or newborn (perinatal outcome), and a negligible possibility of vertical transmission.

The main results of the study are in line with similar studies, some of which include systematic reviews and meta-analyses. In addition, to date, SARS-CoV-2 infections in neonates are generally reported as case reports or series, in which mortality directly and solely associated with SARS-CoV-2 infection was scarce. Rather, enthusiasm for vigorously investigating the biological samples including cord blood, placental membrane swab, vaginal fluid, amniotic fluid, peritoneal fluid (in case of caesarean section), and breast milk should be recognized. Owing to the design of the study of Sharma et al., the authors were able to collect the specimens from 28 mothers. Still, a few studies have discovered positive SARS-CoV-2 in some of the biological samples enumerated above. For example, most placenta studied so far had no evidence of infection. However, evidence of the virus in placentas has been identified in other studies. Even so, we should keep in mind that proving nonexistence takes much more effort than proving existence. Therefore, the added evidence by the authors cannot be devalued.

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A high rate of caesarean section has been repeatedly reported globally since the initial phases of the pandemic. Due to the nature of the virus, when moderate to severe pneumonia develops it is natural to think labor with maximum effort is
impossible. Therefore, the increased proportion may be perceived hypothetically as natural. Nevertheless, consequentially, the majority of the caesarean deliveries were not because of the above issue, as many studies reported an elevated rate of caesarean delivery overall. Vaginal birth usually takes longer than caesarean delivery. This might have been the driving force for increased caesarean delivery rates in the initial phases of the pandemic in terms of infection control and decreasing vertical transmission of the virus. This is partly endorsed by experience with human immunodeficiency virus. Fortunately, as studies show better outcome in the newborn with vaginal birth compared to caesarean delivery, the rates are decreasing.

Finally, the study also emphasizes the safety and importance of rooming-in and breastfeeding, even though 30% of the mothers agreed to rooming-in and breastfeeding in the specific facility. Theoretically, the mother and newborn may be deprived of memorable and rare life moments when decisions are made based on misinformation. Nevertheless, regardless of the degree, the fear of COVID-19 infection is realistic and practical for the family. Considering this, the age-old issue of the conflict between evidence-based medicine and family-centered care could be reiterated.

The entire study reminds us of the obligations of pediatricians to be knowledgeable, up-to-date, and to make their best effort in shared decision-making with families. Furthermore, if possible, pediatricians themselves should add any gathered evidence to the literature regarding COVID-19, however small.

Conflict of interest
No potential conflicts of interest relevant to this article are reported.

See the article “Perinatal outcome and possible vertical transmission of coronavirus disease 2019: experience from North India” via https://doi.org/10.3345/cep.2020.01704.

References