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# Editorial

**Carolyn Briggs**

*Editor*

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## **'Talking points' for parental questions about COVID-19 and young children**

With the COVID-19 disease present and well established in Australia, parents will have particular questions and concerns about keeping their children safe and preventing infection. The effects of the disease on children are topics of ongoing research and, although much is now known, there are aspects of the effect of COVID-19 on infants and young children which are yet to be fully investigated (WHO 2021).

Health authorities within the Australian government have responded with public health education to the adult population aimed at controlling the spread of the disease. However, most of the public health messages have limited information about the effects of COVID-19 on infants and young children.

Child and family health nurses are frontline in the community and therefore can expect to receive questions from parents who use their services seeking health information about preventing infection and recognising signs and symptoms of the disease in their young children. The purpose of this editorial is to briefly review the published literature on the transmission, clinical presentation and risk to infants and young children in order to provide 'talking points' for parental questions.

### **Transmission of the disease**

Most paediatric cases occur within family clusters. Children are usually infected by adults living in the household and, once a family member tests positive for COVID-19, they have a high likelihood of developing the disease (Bhuiyan et al. 2021). The risk of infection, however, appears to be influenced by age, as the higher risk is to other adults living in the household. Studies have suggested younger children living in the same household have a lower rate of infection, but they are still vulnerable (Siebach et al. 2021).

Children can carry and transmit the disease, but there is limited evidence of secondary infection from children to others (Bhuiyan et al. 2021). For children attending preschool, it is more likely that the children are infected by a symptomatic or pre-symptomatic adult (Siebach et al. 2021). For school aged children, the WHO (2021) review indicates there is a low level of transmission to and from children.

Although studies have indicated that children have a lower rate of transmission, the WHO report (2021) acknowledges that the relationship between age and susceptibility to infection requires further investigation, particularly the factors influencing the susceptibility of children to new variants.

### **Clinical presentation**

Younger children, school children and adolescents usually have fewer and milder symptoms than adults and are less likely than adults to experience severe COVID-19 (WHO 2021).

Children commonly present with fever, cough and nasal congestion. Less commonly, they may present with diarrhoea, nausea or vomiting and fatigue (de Souza et al 2020). Younger children may experience fever and runny nose, while older children are likely to complain of vomiting, abdominal pain, headache and a sore throat (Siebach et al. 2021). The symptoms may be very mild and easily go unrecognised, which highlights the need for parents to be vigilant and to respond to the likelihood of infection in their child.

Whilst some children are asymptomatic, the WHO (2021) reports that this is unusual, and the majority of infected children present with symptoms. Nevertheless, there have been reports of children whose infection was only identified from radiological abnormalities (de Souza et al 2020).

### **Prognosis**

Only a small proportion of children become severely or critically ill. The majority of children with COVID-19 recover well and do not experience the severity of disease seen in adults. Indeed, the prognosis seems to be very good (de Souza et al 2020). A later systematic review conducted by Bhuiyan et al. in 2021 indicates that, in children aged less than 5 years, more than 90% experience a mild to moderate disease. There is limited evidence on the effect of COVID-19 on infants, but the available evidence suggests that neonates mostly present with mild disease (WHO 2021).

The lower infection rate for children is thought to be due to differences in their response to the virus. Corona virus is a respiratory disease in which the virus infects the alveoli in the lungs, triggering an overactive response in the immune system in adults, termed the cytokine 'storm', causing severe inflammation (Hu et al. 2021). The exaggerated immunopathic response results in damage to lung tissue and may lead to severe pneumonia and respiratory failure. Thus, severe lung injury in patients with COVID-19 is considered as the result of both direct viral infection and immune overactivation. Children have an immature immune system compared to adults, and it is hypothesised that their differing immune response is due to this immaturity. It is thought the immune system in children is not primed to overreact, as it is in adults, and thus they overcome the virus more effectively, but this hypothesis is still under investigation (WHO 2021).