

Kids and COVID-19: They are Winning with Their Immunity

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Abstract : Purpose of Presentation: The infant immune system has a reputation for being weak and underdeveloped when compared to the adult immune system, but the comparison isn't quite fair. At the start, as the COVID-19 pandemic drags on and evolves, many Pediatricians and kids' parents have been left with renewed questions about the consequences and sequel of infection on children and the steps to be taken if their child has the symptoms of COVID-19 or tests positive. Recent Findings Literature reviews and recent studies revealed that children are better than adults at controlling SARS-CoV-2. There was conflicting evidence on age-related differences in ACE2 expression in the nose and lungs. But scientists who measured the 'viral load' in children's upper airways have seen no clear difference between children and adults. Moreover, the hypothesis is that kids might be more exposed to other coronaviruses common cold, with a production of ready protective antibodies to lock on to the pandemic coronavirus. But the evidence suggests that adults also have this immunity too. Strikingly, these 'cross-reactive' antibodies don't offer any special protection. Summary One of the few silver linings of the Covid-19 pandemic is that children are relatively spared. The kid's Innate Immunity is hardly the whole story, the innate immune response against SARS-CoV-2 infection is early initiative calm with low immunological tone to prevent an overactive immunity and with rapidly repair damage to the lungs in contrast to stormy waves in adults. Therefore, Kids are at much lower risk of Covid-19 infection, and they are still winning the battle against Covid-19 with their innate immunity.

Keywords : Covid-19, kids, ACE2 receptors, immunity

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