Olfactory and Gustatory Dysfunction in Children with COVID-19.

Marta Bernaola¹, Irene Bartha¹, Gustavo Adolfo Lopez-Araujo¹, Carmelo Escudero¹, Pablo Rodriguez del Rio¹, Cristina Morales-Cabeza¹, Raphaëlle Bazire¹, and María Dolores Ibáñez¹

¹Hospital Infantil Universitario Niño Jesús

September 28, 2020

Abstract

Olfactory and gustatory dysfunctions (OGD) have been reported as relevant symptoms that may predict presence of coronavirus disease 2019 (COVID-19) in adults, associated with mild or moderate disease1, 2, 3. However, published data on OGD in children are scant, likely due to several factors specific to the pediatric population such as a lower incidence of infection, the tendency of COVID-19 to be asymptomatic4, 5, and the difficulty of studying childhood OGD with objective methods. Two case reports have been published to date: one with 3 adolescents6, and the other describing a 17-year-old girl with beta-thalassemia who presented total loss of smell and taste for 8 days7. Current data on the prevalence of OGD are based on only 2 small cohorts of COVID-19-positive children8, 9. In a related study, Mannheim et al.10 describe that 19 (30%) of 64 infected children (0–17 years old) presented nasal congestion, rhinorrhea, and total loss of smell, though providing no data on the exact number of patients with olfactory dysfunction exclusively.

Hosted file

2.pdf available at https://authorea.com/users/361143/articles/482875-olfactory-and-gustatory-dysfunction-in-children-with-covid-19

Hosted file

 $3.pdf \quad available \quad at \quad \text{https://authorea.com/users/361143/articles/482875-olfactory-and-gustatory-dysfunction-in-children-with-covid-19} \\$

Hosted file

Figure 1.pdf available at https://authorea.com/users/361143/articles/482875-olfactory-and-gustatory-dysfunction-in-children-with-covid-19

Hosted file

Table 1.pdf available at https://authorea.com/users/361143/articles/482875-olfactory-and-gustatory-dysfunction-in-children-with-covid-19

Hosted file

Table 2.pdf available at https://authorea.com/users/361143/articles/482875-olfactory-and-gustatory-dysfunction-in-children-with-covid-19