2022 PER-IADR Oral Health Research Congress

Starts: Sep 15, 2022 09:00 (FR)
Ends: Sep 17, 2022 17:00 (FR)

Marseille, France
More information



The Association Between Multisystem Inflammatory Syndrome and Oral Health Status in Children

Objectives: The aim of this cross-sectional study was to investigate oral health status in children with Multisystem Inflammatory Syndrome (MIS-C) compared to children with SARS-CoV-2 infection.
Methods: A total of 54 children with COVID-19 associated MIS-C (n=23) and mild COVID-19 (n=31) were recruited to the study (Age range: 5-15; gender (F/M): 23/31). Sociodemographic variables, medical examinations, oral hygiene habits as well as extra- and intra-oral findings (DMFT/dmft index, OHI scores and oral mucosal changes) were recorded.
Results: MIS-C was associated with cracked lips (all patients with MIS-C) and oral mucosal changes including erythema, white lesion and strawberry tongue and swelling of the gingiva compared to COVID-19 group (frequency of more than one mucosal change: 100% vs 35%) ($p<0.001$). MIS-C led to 45.8% increase in DMFT/dmft scores higher than 6 (DMFT/dmft (mean±SD): 5.52±3.16 (MIS-C) versus 2.26±1.80 (COVID-19) ($p<0.01$). Elevated OHI scores was associated with MIS-C (mean±SD: 3.06±1.02 (MIS-C) versus 2.41±0.97 (COVID-19) as well ($p<0.05$).
Conclusions: Oral manifestations mainly strawberry and erythematous tongue were predominantly associated with MIS-C. Oral/dental symptoms among children with MIS were prevalent. Therefore, dental professionals should be aware of the oral manifestations to associate to MIS-C which may have high mortality and morbidity rate.

Division:
Meeting: 2022 Pan European Region Oral Health Congress (Marseille, France)
Location: Marseille, France
Year: 2022
Final Presentation ID: O016
Abstract Category|Abstract Category(s): Pediatric Oral Health Research

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Financial Interest Disclosure: NONE