Anosmia and ageusia: common findings in COVID-19 patients.

Otolaryngological manifestations in COVID-19

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Abstract

In a not negligible number of patients affected by COVID-19, especially if paucisymptomatic, ageusia and anosmia can represent the first or only symptomatology present.

SHORT COMMUNICATION

Italy currently represents the new front where the battle against SARS-CoV-2 is being fought. In the management of the health crisis, the identification of paucisymptomatic patients is emerging as a crucial factor in order to interrupt the transmission chain of the virus. In the centers that are facing this emergency, a significant number of patients presenting anosmia and ageusia associated with fever (> 37.5 °C) as onset symptoms are being detected. This minor and non-specific symptomatology can represent the only manifestation of the disease.

Mao et al. [1] analyzed the frequency of neurological manifestations in 214 patients with coronavirus disease (COVID-19) identifying anosmia in 11 (5.1%) and ageusia in 12 (5.6%) patients. There are no other studies in the literature regarding neurological symptoms in patient with COVID-19.

Unfortunately, the actual emergency situation does not allow us to provide a precise incidence of the manifestation, but our estimates from history and physical examination of the first 320 patients of which we have data is that chemosensory dysfunction is present in 19.4%. This incidence can be underestimated as the gustatory and olfactory function is not always investigated.

Anosmia has already been reported in the course of severe acute respiratory syndrome (SARS) [2] and other coronavirus [3-4] infections but it represents a rare occurrence. Interestingly, in COVID-19 patients ageusia and anosmia are not accompanied by nasal obstruction or other rhinitis symptoms. Therefore, this is probably due to the direct damage of the virus on the olfactory and
gustatory receptors [5]. Currently, it is not possible to determine whether there will be a full recovery or how long it will take.

However, on the basis of the experience that is being acquired in Italy, we believe it is important to inform otolaryngologists colleagues about paying attention on these possible manifestations of SARS-CoV-2 infection. In a not negligible number of patients, especially if paucisymptomatic, ageusia and anosmia can represent the first or the only symptomatic manifestation. It will be important, when feasible, to obtain olfactory and gustatory testing data on patients with confirmed COVID-19 testing, to provide quantitative data on the incidence and severity of these sensory losses. Finally, understanding mechanisms of sensorineural olfactory loss with coronavirus infections might provide novel insights into aspects of viral pathogenesis.

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References


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