

## **Post COVID Grisel's Syndrome, Is There Any Association? Report of case series and review of literature**

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**Aim:** Grisel's syndrome (GS) is a rare, non-traumatic and rotatory atlantoaxial subluxation. Post COVID GS is not studied on the literature. The aim of this report is a study of probable association between COVID-19 infection and GS.

**Materials & Methods:** We report 3 GS cases associated with COVID-19 infection for the first time.

**Results:** Our results show that the virus may present with an extensive range of manifestations such as GS and should be considered in children with COVID-19 infection.

**Discussion:** Upper airways, head and neck infections and surgical procedures are the main causes of this syndrome. Although we believe that COVID-19 spreading in upper airways, related immune response and over-relaxation of ligaments can lead to C1-C2 rotatory subluxation and GS, the exact pathophysiology of this process is unknown.

**Conclusion:** We conclude that the virus may present with an extensive range of manifestations such as GS and should be considered in children with COVID-19 infection.

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