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Histopathological alterations of enterocytes in a patient co-infected with severe acute respiratory syndrome coronavirus 2 and mycobacterium tuberculosis. A case study

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The ongoing novel coronavirus disease 2019 (COVID-19) is principally defined by its respiratory symptoms. Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) can affect the gastrointestinal tract (GIT) and although the pathogenesis of COVID-19 is understood, the exact pathological alterations following infection require further investigation. Here, we report our histopathological findings from a right hemicolectomy specimen from a patient coinfected with COVID-19 and Mycobacterium tuberculosis. Our observations showed that the novel SARS-CoV-2 can affect the GIT, causing epithelial injury and pathological alterations attributed to its ability to infect absorptive enterocytes by interacting with the angiotensin converting enzyme-2 (ACE2) receptor. These pathological findings are regarded as viral cytopathic changes and should be considered when evaluating gastrointestinal specimens from COVID-19-infected patients.

Recent Publications

1) Rana al Zaidi. (2022), Eccrine Angiomatous Hamartoma With Arteriovenous Malformation: A Rare Entity Re-Explored; Cureus 14(3).

2) Rana al Zaidi, et.al.(2022), Peculiar Histopathological Alterations of Enterocytes in a Patient Co-Infected with Severe Acute Respiratory Syndrome Coronavirus 2 and Mycobacterium Tuberculosis: A Case Study, Gastrointest Dig Sys; 11:10.

3) Rana al Zaidi, Khalid M Alqurashi, Rani Alsairafi, Fahad M Alkhuzaei, et.al.(2021), Panniculitis Ossificans in Posterior Knee: An Unusual Presentation, Cureus 13(11).

Biography

I'm a pathologist interested in bone and soft tissue pathology, GIT pathology, and hematopathology. I've published papers on topics related to GIT pathology, dermatopathology, soft tissue pathology, hematopathology, and neuropathology.

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