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Clinical Image

COVID-19 was first described in Wuhan-China and soon after delaring a pandemic according to WHO. In Brazil, it truly became a health problem, with more than 2 million cases. Clinically, the disease manifests as pneumonia, but abdominal surgeons have been called since the beginning to face acute abdominal syndromes associated with this disease. The most were related to mesenteric lymphadenitis and managed without surgery. But as the disease worsened a more critical presentation presented are related to inflammation, hypoxemia, and hypercoagulability [1].

We report a case of a 74-year-old male with severe COVID in the ICU who presented sudden abdominal distension. The CT scan disclosed the images below suggesting intestinal ischaemia (Figure 1 and 2). He was operated on the same day and in the operation, we found acute pancreatitis with intestinal ischaemia and mesenteritis. The patient died in 48 hours. After reviewing the literature, we found a radiologist update [2,3] reporting some other related images and the mechanism of injury of the GI tract. The virus binds to the Angiotensin-Converting Enzyme 2 (ACE2) receptor in the lung inciting thrombosis. These receptors are expressed at high levels in gastrointestinal mucosa and pancreatic cells plaining the mechanism of local ischaemia.



Figure 1: Durodenal Thickenning, Necrotic Pancreatitis. Mesenteritis with Hypoperfusion.

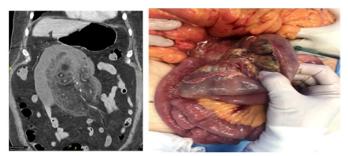


Figure 2: Swollen Mesentery, Enlarged Lymphnodes, Jejunal Hypoperfusion.

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References

- Spiezia L, Boscolo A, Poletto F, Cerruti L, Tiberio I, Campello E, et al.. COVID-19-Related severe hypercoagulability in patients admitted to intensive care unit for acute respiratory failure. Thromb Haemost. 2020;120(6):998–1000.
- 2. Gartland RM, Velmahos GC. Bowel Necrosis in the Setting of

COVID-19. J Gastrointest Surg. 2020;1-2.

 Olson MC, Lubner MG, Menias CO, Mellnick VM, Gettle LM, Kim DH, et al. RadioGraphics Update: Venous Thrombosis and Hypercoagulability in the Abdomen and Pelvis-Findings in COVID-19. Radiographics. 2020;200119.