Haemorrhagic enteritis and COVID-19: causality or coincidence

Respiratory system is the main target in COVID-19 infection. Acute gastrointestinal (GI) manifestations of COVID-19 are rare. We describe a case of COVID-19 presenting with acute abdomen, diagnosed as haemorrhagic enteritis.

A 61-year-old man residing in a COVID-19 containment area presented in emergency room with severe abdominal pain and vomiting. There was no history of fever, cough, respiratory or any significant symptoms. Contrast enhanced computer topography axial precontrast and postcontrast venous phase showed long segment small bowel wall thickening with high-density areas in the bowel wall likely representing haemorrhage with mild ascites (figure 1A,B). Routine haemogram showed haemoglobin 8.5 gm/dL, total white cell count 6900/mm³ and platelet count 137000/mm³. Prothrombin time was 24.4 s (control value 12.05) and international normalised ratio 2.19. In view of his residential area, nasopharyngeal swab was collected for COVID-19 testing by RT-PCR. With due precautions, patient was operated on emergency basis. Exploratory laparotomy with resection of bowel segment and ileostomy was done. After surgery, the report of COVID-19 was found to be positive. Postoperative period was uneventful. Resected specimen of small intestine measuring 70 cm in length was markedly congested, haemorrhagic with viable resection margins. Histopathology revealed extensive transmural haemorrhages with many congested and dilated blood vessels. Occasional fibrin thrombi are seen within capillaries (figure 1C). There was no evidence of viral, fungal infection, other infective or inflammatory pathology.

Extrapulmonary involvement of COVID-19 is in the form of coagulopathy, venous thromboembolism and GI involvement. Most of the patients with GI involvement present with diarrhea, abdominal pain, vomiting or nausea. GI symptoms can exist independently of respiratory symptoms. Our case presented with acute abdomen and diagnosed as haemorrhagic enteritis without any predisposing conditions. Patient was COVID-19 positive on RT-PCR. Whether it was causal or coincidence, one should be aware of atypical life-threatening GI symptoms associated with COVID-19 infection. There should be high index of suspicion and encourage to test for COVID-19 in this pandemic situation.

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