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Although liquid stool often escapes comment on CT images, this finding might provide the first indication of GI symptoms in patients with COVID-19. Although elevated liver enzyme levels have been reported frequently in patients with COVID-19 (1,6), the cause is uncertain. Findings of gallbladder bile stasis were seen on 54% of right upper quadrant US images in our series.

Cited by: 112Author: Rajesh Bhayana, Avik Som, Matthew D. ...

Publish Year: 2020

Imaging reveals bowel abnormalities in patients with COVID-19

<https://www.sciencedaily.com/releases/2020/05/200511142148.htm>

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https://pubmed.ncbi.nlm.nih.gov/33341452

The significant GI imaging findings include mesenteric arterial or venous thromboembolism, followed by small bowel ischemia. Nine patients (29%) presented with arterial compromise due to superior...

Cited by: 3Author: Pedram Keshavarz, Faranak Rafiei, Hadise...

Publish Year: 2021

Acute Mesenteric Ischemia: Multidetector CT Findings and ...

https://pubs.rsna.org/doi/10.1148/rg.2018170163

May 14, 2018 Key findings of acute mesenteric ischemia and its various causes at multidetector CT are discussed, with a review of endovascular management strategies and their current clinical performance...

Cited by: 61Author: Shuzo Kanasaki, Akira Furukawa, Kanako F...

Publish Year: 2018

Systemic arterial thrombosis and acute mesenteric ischemia ...

https://pubmed.ncbi.nlm.nih.gov/32424482

Systemic arterial thrombosis and acute mesenteric ischemia in a patient with COVID-19 Intensive Care Med. 2020 Jul;46(7):1464-1465. doi: 10.1007/s00134-020-06079-2.

Cited by: 18Author: Eya Azouz, Sisi Yang, Laurence Monnier-Ch...

Publish Year: 2020

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https://pubs.rsna.org/doi/full/10.1148/radiol.2020201908

Bowel abnormalities, including ischemia and cholestasis, were common findings on abdominal images of patients with coronavirus disease 2019. Background Angiotensin-converting enzyme 2, a target of...

Cited by: 142Author: Rajesh Bhayana, Avik Som, Matthew D. Li...

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Acute Mesenteric Ischemia: A Clinical Review ...

https://jamanetwork.com/journals/jamainternalmedicine/fullarticle/217022

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Cited by: 707Author: W. Andrew Oldenburg, L. Louis Lau, Thoma...

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Cureus | A Rare Case of Acute Mesenteric Ischemia in the ...

https://www.cureus.com/articles/55305-a-rare-case...

Mar 29, 2021 Severe respiratory syndrome coronavirus 2 (SARS-CoV-2) is well known for causing respiratory and other extrapulmonary manifestations. Patients infected with coronavirus disease 2019...

Author: Neehanika Krothapalli, Jason JacobPublish Year: 2021

Acute mesenteric ischemia: guidelines of the World Society ...

https://wjcs.biomedcentral.com/articles/10.1186/s13017-017-0150-5

Aug 07, 2017 Acute mesenteric ischemia (AMI) is typically defined as a group of diseases characterized by an interruption of the blood supply to varying portions of the small intestine, leading to ischemia and...

Cited by: 243Author: Miklos Bala, Jeffry Kashuk, Ernest E. Moo...

Publish Year: 2017

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https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8087891

Jan 20, 2021 In the COVID-19 cohort of Bhayana et al., bowel wall thickening was associated with admission to the ICU, and small bowel thickening was an exclusive finding in ICU patients. Others have...

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europepmc.org/article/MED/33341452

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Mesenteric Ischemia

Medical Condition

A condition caused by inadequate blood supply to the small intestine that leads to permanent damage of the small intestine.

Very rare (Fewer than 20,000 cases per year in US)

Requires lab test or imaging

Treatable by a medical professional

Can last several days or weeks

Mesenteric ischemia is mainly caused by narrowing of the arteries that supply blood in the intestine. Sudden pain in the abdomen, stool with blood and pain experienced during meal times are the common symptoms. Treatment includes medication and surgical procedures.

Symptoms

The symptoms include:

Acute mesenteric ischemia:

- Sudden abdominal pain
- Blood in the stool
- Constipation

Chronic mesenteric ischemia:

- Vomiting
- Nausea
- Change in frequency of bowel movements
- Pain while eating
- Weight loss

Treatments

Treatment includes medication and surgical procedures.

Medication

- Anticoagulants: To prevent blood clots.
- HeparinWarfarin

Medical procedures:

AngioplastyMesenteric artery bypassMesenteric endarterectomy

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Acute mesenteric ischemia and small bowel imaging findings in COVID-19: A comprehensive review of the literature

Pirola L. *et al.* Small bowel imaging in COVID-19

Lorena Pirola, Andrea Palermo, Giacomo Mulinacci, Laura Ratti, Maria Fichera, Pietro Invernizzi, Chiara Vigano', Sara Massironi

Abstract

BACKGROUND

Coronavirus disease-2019 (COVID-19), an infectious condition caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), has rapidly spread worldwide since its first description in Wuhan in December 2019. Even if respiratory manifestations are

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Nov 12, 2020 · We searched PubMed for this literature review using search terms 'COVID-19 and mesenteric thrombosis', 'COVID-19 and mesenteric ischemia', and 'COVID-19 and bowel ischemia'. All the case reports who had COVID-19 associated mesenteric thrombosis so far is reviewed, and relevant data abstracted from these studies in Table 1 .

Cited by: 4 Author: Balraj Singh, Parminder Kaur

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Acute Mesenteric Ischemia: A Clinical Review ...

<https://jamanetwork.com/journals/jamainternalmedicine/fullarticle/217022> ▼

May 24, 2004 · Acute mesenteric ischemia (AMI) is a potentially fatal vascular emergency with overall mortality of 60% to 80%, 1-5 and its reported incidence is increasing. 3 Acute mesenteric ischemia comprises a group of pathophysiologic processes that have a common end point—bowel necrosis. The survival rate has not improved substantially during the past 70 years, and the major reason is the ...

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Pearls, Pitfalls, and Conditions that Mimic Mesenteric ...

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Mar 03, 2020 · Acute mesenteric ischemia (AMI) is a life-threatening condition with a high mortality rate. The diagnosis of AMI is challenging because patient symptoms and laboratory test results are often nonspecific. A high degree of clinical and radiologic suspicion is required for accurate and timely diagnosis. CT angiography of the abdomen and pelvis is ...

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Aug 07, 2017 · Acute mesenteric ischemia (AMI) is typically defined as a group of diseases characterized by an interruption of the blood supply to varying portions of the small intestine, leading to ischemia and secondary inflammatory changes. If untreated, this process will eventuate in life threatening intestinal necrosis. The incidence is low, estimated at 0.09–0.2% of all acute surgical ...