

Review Form 3

Journal Name:	Asian Journal of Case Reports in Surgery
Manuscript Number:	Ms_AJCRS_127153
Title of the Manuscript:	Acute necrotizing colitis : a case report and literature review.
Type of the Article	Case report

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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Important Policies Regarding Peer Review

Peer review Comments Approval Policy: <https://r1-reviewerhub.org/peer-review-comments-approval-policy/>

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	The comprehensive nature of this manuscript, as it not only discusses a clinical case but also integrates current knowledge on NC path physiology, diagnostic approaches, and therapeutic strategies. The manuscript highlights the role of multidisciplinary management and the emerging link between COVID-19 and thromboembolic events, adding important context for contemporary practice. However, I would have liked to see a more detailed exploration of the long-term follow-up and potential complications post-surgery, which could provide further insights into patient recovery and prognosis. Overall, this case report is a valuable contribution to the scientific community, particularly given the rise in post-COVID-19 complications.	
Is the title of the article suitable? (If not please suggest an alternative title)	The current title, " <i>Acute necrotizing colitis: A case report and literature review</i> ", is clear and appropriately descriptive of the content, but it could be refined to highlight the unique aspects of the case, such as the specific cause (thrombosis of the inferior mesenteric artery) and the potential link to SARS-CoV-2 infection. This would make it more specific and engaging for readers interested in the intersection of COVID-19 and gastrointestinal complications. Alternative title suggestions: <ol style="list-style-type: none"> "Acute Necrotizing Colitis Due to Inferior Mesenteric Artery Thrombosis Following SARS-CoV-2 Infection: A Case Report and Literature Review" "Thrombosis of the Inferior Mesenteric Artery Induced Necrotizing Colitis in a COVID-19 Survivor: Case Report and Literature Review" "SARS-CoV-2-Associated Inferior Mesenteric Artery Thrombosis Leading to Acute Necrotizing Colitis: A Case Report" 	

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<p>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</p>	<p>The abstract of this article is generally comprehensive and well-structured, providing a concise overview of the case, its background, and the outcome. However, it could benefit from some adjustments to make it clearer, more focused, and reflective of the unique aspects of the case, such as the connection between SARS-CoV-2 infection and thrombosis in the inferior mesenteric artery.</p> <p>Revised Abstract:</p> <p>Necrotizing colitis is a rare but life-threatening condition, often overlooked in young patients due to its uncommon occurrence. It is typically associated with premature neonates but can also affect adults, particularly those with vascular compromise or thrombotic conditions. We describe the case of a 44-year-old male who was admitted for treatment of necrosis in the sigmoid colon caused by thrombosis in the inferior mesenteric artery, possibly triggered by a previous SARS-CoV-2 infection. The patient presented with abdominal distention, localized tenderness, and signs of systemic inflammation, including tachycardia and elevated white blood cell count. Abdominal CT imaging revealed sigmoid necrosis due to inferior mesenteric artery thrombosis, accompanied by peritoneal fluid effusion. Emergency surgery was performed, involving resection of the necrotic colon and creation of a double stoma. Medical treatment with low molecular weight heparin (LMWH) was initiated. The patient showed clinical and biological recovery during follow-up and was referred for further investigation to assess the underlying cause of the thrombotic event. This case highlights the importance of considering SARS-CoV-2 as a potential trigger for thromboembolic events and the urgent need for multidisciplinary management in cases of necrotizing colitis.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The manuscript is structured well, but there are areas for improvement in terms of clarity and flow, particularly in the Case Presentation and Discussion sections. Breaking up long paragraphs, providing more detailed timelines and rationales, and strengthening the connection between SARS-CoV-2 and the thrombosis will improve the overall readability and completeness of the report. Adding subheadings in the Discussion and more explicit descriptions in the Conclusion will make the article easier to follow and more engaging for readers.</p>	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p>	<p>This manuscript is scientifically robust and technically sound for several reasons. Firstly, it presents a well-documented and rare case of necrotizing colitis (NC) in an adult, providing detailed clinical data, including vital signs, lab results, imaging findings, and surgical interventions, which enhances the validity of the reported case. The diagnostic approach is clearly outlined, with the use of abdominal CT scans to identify mesenteric artery thrombosis as the underlying cause, a crucial aspect in the diagnosis of ischemic colitis. Additionally, the manuscript discusses the possible link between SARS-CoV-2 infection and the development of thromboembolic complications, which is consistent with current literature on COVID-19-associated coagulopathy and ischemia. The treatment approach, involving surgery and LMWH therapy, aligns with established guidelines for managing intestinal ischemia and necrosis, making the clinical management described both appropriate and evidence-based. Lastly, the manuscript references relevant and current studies, demonstrating an awareness of recent developments in the field and a careful consideration of the broader scientific context.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. -</p>	<p>The references are generally appropriate but would benefit from incorporating more recent studies that align with the ongoing global health trends, especially concerning COVID-19 complications and newer imaging techniques COVID-19 and Gastrointestinal Complications:</p> <ul style="list-style-type: none"> • Parasa S, Desai M, Thoguluva Chandrasekhar V, et al. "The incidence, risk factors, and outcomes of ischemic colitis in COVID-19 patients: A systematic review and meta-analysis." <i>J Gastroenterol Hepatol.</i> 2021;36(4):1051-1058. doi:10.1111/jgh.15333. 	
<p><u>Minor REVISION</u> comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The overall language and English quality of the article is generally suitable for scholarly communication, but there are several areas where clarity, precision, and grammatical improvements could enhance the readability and professionalism of the manuscript. Below, I provide some specific comments and suggestions for improvement:</p> <p>1) <i>"Necrotizing colitis is a medical and surgical emergency that can be life-threatening, commonly overlooked in young patients because of its rare occurrence."</i></p> <p>This sentence is clear but could be slightly rephrased for flow: "Necrotizing colitis is a life-threatening medical and surgical emergency that is often overlooked in young patients due to its rare occurrence."</p> <p>2) <i>Biological screeningshowed hemoglobin level at 10g/dL, WBC 16400 elements/mm3, C-reactive protein 120 mg/L."</i></p> <p>A small grammatical error here. It should be: "Biological screening showed a hemoglobin level of 10 g/dL, WBC of 16,400 elements/mm³, and C-reactive protein of 120 mg/L."</p>	
<p><u>Optional/General</u> comments</p>	<p>The article is suitable for scholarly communication, but it could benefit from minor revisions to improve clarity, conciseness, and consistency in terminology and formatting. Fixing grammatical errors, streamlining some sentences, and ensuring consistent citation formatting will significantly enhance the professionalism and readability of the text..</p>	

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes. Kindly please write down the ethical issues here in details)</i></p>	

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