Gastrointestinal manifestations in COVID-19 <u>Jayani C. Kariyawasam</u>¹, Umesh Jayarajah², Rishdha Riza³, Visula Abeysuriya⁴, and Suranjith L. Seneviratne⁴

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Introduction

Gastrointestinal (GI) symptoms and signs are observed in Covid. Detailed patterns of their presentation, pathogenesis, and management are poorly defined.

Objectives

To outline the important GI manifestations of Covid, their diagnosis and management and the potential pathogenetic mechanisms.

References

 Galanopoulos M, Gkeros F, Doukatas A, Karianakis G, Pontas C, Tsoukalas N, Viazis N, Liatsos C, Mantzaris GJ. COVID-19 pandemic: Pathophysiology and manifestations from the gastrointestinal tract. World J Gastroenterol. 2020 Aug 21;26(31):4579-4588.
Roy K, Agarwal S, Banerjee R, Paul MK, Purbey PK. COVID-19 and gut immunomodulation. World J Gastroenterol. 2021 Dec 14;27(46):7925-7942.
Kariyawasam JC, Jayarajah U, Abeysuriya V, Riza R, Seneviratne SL. Gastrointestinal manifestations in COVID-19.Trans. R. Soc. Trop. 2021 Dec 24;115(12):1362–88.

Materials & Methods

searched the PubMed, We Google Scholar, and Clinical Trials databases from 1 January 2020 to 01 April 2023 for articles that describe the GI effects of Covid. The article title and the abstract were read selection. initial the tor Reference lists of full-text articles were scanned to find any additional studies. A total of 244 full-text articles were assessed and 87 were included in the analysis.

Results & Discussion

11.4–61.1% GI	T
manifestations were seen	in C
Covid patients and most	vi
were mild and self-limitin	g. in
The most common GI	res
manifestations are anorexi	ia, m
diarrhoea, nausea, vomitir	ng int
and abdominal	in
pain/discomfort.	ac
Acute pancreatitis, acute	ne
appendicitis, intestinal	of
obstruction, bowel	an
ischaemia,	or
haemoperitoneum or	be
abdominal compartment	an
syndrome are reported as	of
the cause in most patients	
with acute abdomen.	
SARS-CoV-2 RNA has	
been found in biopsies from	
all parts of the alimentary	
canal.	
azis N, Liatsos C, Mantzaris G. 579-4588.	J. COVID-
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Conclusions

volvement of the GI tract in ovid, may be due to direct and/or injury ral an flammatory immune esponse. It may lead to alabsorption, an imbalance in testinal secretions, alteration gut mucosal integrity and tivation of the enteric ervous system. The mainstay treatment is symptomatic nd supportive care. Surgical endoscopic treatment may needed for acute abdomen nd GI bleeding in a subgroup patients.