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Observational study to estimate risk of COVID 19 pneumonia in causation of pancreatitis

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Abstract- Gastrointestinal symptoms are highly prevalent in coronavirirus disease ranging from 17.6 % to 53%. The proposed mechanism for GI symptoms involves SARS-COV2 virus binding to the host epithelial cell's ACE 2 receptor, commonly found in GI tract epithelial cells.

After defeating covid to an extent there is now an interest in understanding post covid sequele .In this study we are tried understand if there was any impact of covid 19 infection on causation or prognosis of pancreatitis . Methodology:

Clinical and laboratory data of all consecutive patients with a primary diagnosis of AP during past 6months with history of covid 19 infection was collected .Clinical and radiological grading was taken into consideration for finding severity.

Result:

out of 30 patient 4 patients had severe covid 19 infection requiring more than 10days of hostilization but though 1 of those 4patient developed recurrent pancreatitis their severity score was less(clinical and radiological).

14 had mild covid 19 infection with minimal respiratory and more of GI symptoms. Out of these 14,10 developed severe acute necrotizing pancreatitis requiring ICU stay and prolonged hospital stay.

6patients had mild covid 19 infection with respiratory symptoms .5 of them had pancreatitis of mild severity ,1 developed severe necrotizing pancreatitis.

Conclusion: Based on our study we conclude that more than severe covid 19infection mild covid 19infection with GI symptoms has a greater impact on the prognosis of patient with pancreatitis.

However there is still insufficient evidence showing that covid 19 can cause AP or negatively impact prognosis. Additional major studies are needed to clarify relationship between these two entities

Keywords: COVID, pancreatitis, pneumonia.

Introduction

Gastrointestinal symptoms are highly prevalent in coronavirirus disease ranging from 17.6 % to 53%. The proposed mechanism for GI symptoms involves SARS-COV2 virus binding to the host epithelial cell's ACE 2 receptor, commonly found in GI tract epithelial cells.

After defeating covid to an extent there is now an interest in understanding post covid sequele. In this study we are tried understand if there was any impact of covid 19 infection on causation or prognosis of pancreatitis.

Aim: To find impact of covid 19 infection on causation and prognosis of pancreatitis

Inclusion criteria:

1)Patients with acute pancreatitis

2)Prior history of covid 19 infection

Exclusion criteria:

Chronic pancreatitis patient Patient with on going covid 19 infection Immunocompromised patients

Methodology:

Clinical and laboratory data of all consecutive patients with a primary diagnosis of AP during past 6months with history of covid 19 infection was collected .Clinical and radiological grading was taken into consideration for finding severity.

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Results:

Pancreatitis Patients	Severity of pan creatitis	Mild covid 19 infection with GI symptoms	Severe covid 1 9 infection	Mild covid 19 infection with r espiratory symptoms
1	mild	yes		
2	Mild but recurre nce present		yes	
3	severe	yes		
4	severe	yes		
5	Mild		yes	
6	Mild		yes	
7	mild			yes
8	mild			yes
9	severe	yes		
10	mild	yes		
11	mild	yes		
12	mild	yes		

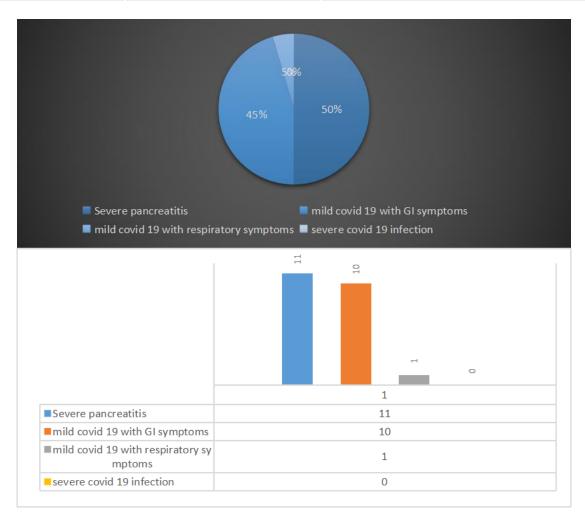
Pancreatitis Patients	Severity of pancreatitis	Mild covid 19 infection with GI symptoms	

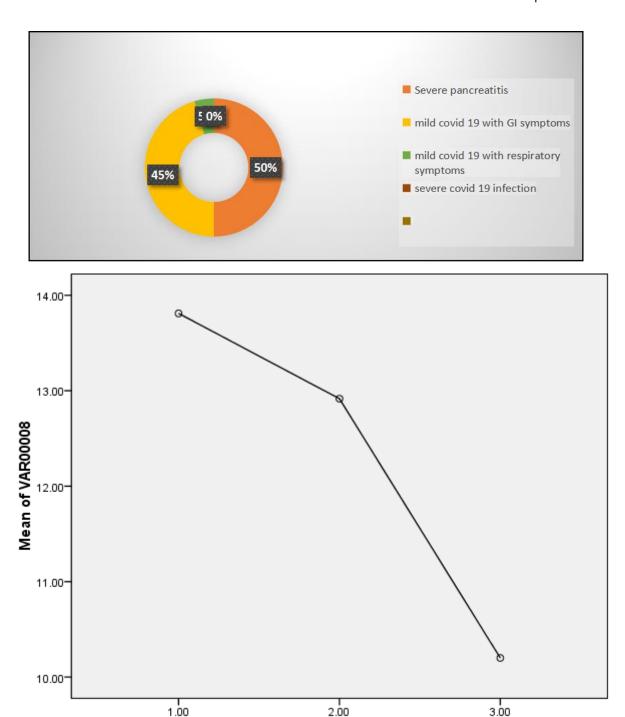
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13	severe	yes		
14	Mild			
15	severe			
16	severe	yes		
17	severe	yes		
18	severe	yes		
19	mild			
20	severe	yes		
21	mild			
Pananastitis Patients	Severity of nanovastitic	Mild povid 10 info	ection with CI symptoms	Sovere covid

Pancreatitis Patients	Severity of pancreatitis	Mild covid 19 infection with GI symptoms	Severe covid
22	severe	yes	
23	severe	yes	
24	mild		
25	mild		
26	mild		

27	mild	
28	severe	
29	mild	
30	mild	





Discussion:

out of 30 patient 4 patients had severe covid 19 infection requiring more than 10days of hostilization but though 1 of those 4patient developed recurrent pancreatitis but severity score was less(clinical and radiological).

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Conclusion:

Based on our study we conclude that more than severe covid 19infection mild covid 19infection with GI symptoms has a greater impact on the prognosis of patient with pancreatitis.

However there is still insufficient evidence showing that covid 19 can cause AP or negatively impact prognosis. Additional major studies are needed to clarify relationship between these two entities

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