

## **Patient Presentation of COVID-19 with Liver Cirrhosis**

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### **Editorial**

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Fatigue

Shortness of breath

Medical History

Liver cirrhosis (5 years)

Diabetes mellitus

No history of recent travel

Clinical Findings

Oxygen saturation: 88% on room air

Respiratory rate: 24/min

Mild jaundice

Ascites present

Laboratory findings:

### **ABSTRACT**

COVID-19 has shown diverse clinical presentations, particularly in patients with underlying comorbidities. This case study describes a patient with liver cirrhosis presenting with COVID-19, emphasizing the complexity of diagnosis and management. The case highlights how comorbid conditions can alter disease progression and clinical outcomes[1].

### **Keywords**

Clinical case study; Patient presentation; COVID-19; Liver cirrhosis; Comorbidity; CLINICAL management

### **INTRODUCTION**

Case reports serve as an essential medium for sharing clinical experiences and understanding rare or complex disease presentations. COVID-19, caused by SARS-CoV-2, has demonstrated varied clinical manifestations, especially in patients with chronic illnesses[2].

Patients with liver cirrhosis are particularly vulnerable due to immune dysfunction and impaired metabolic processes.

#### **Case Presentation**

##### **Patient Information**

A 60-year-old female presented with:

Fever (38.5°C)

Dry cough

Elevated liver enzymes  
Lymphopenia  
Prolonged coagulation profile

### **Diagnostic Assessment**

RT-PCR confirmed COVID-19 infection. Imaging showed bilateral lung infiltrates. The patient's condition was complicated by liver dysfunction, which affected immune response and coagulation[3].

Studies have shown that COVID-19 patients with cirrhosis exhibit abnormal laboratory findings such as reduced lymphocyte count and coagulation abnormalities.

### **Therapeutic Intervention**

Treatment included:

Oxygen therapy  
Antiviral medications  
Plasma therapy  
Supportive care

Due to cirrhosis, medication dosages were carefully adjusted.

Follow-Up and Outcomes

Hospital stay: 32 days

Gradual clinical improvement

Negative COVID-19 test after treatment

The patient was discharged with stable liver function and respiratory status.

### **DISCUSSION**

This case demonstrates how underlying conditions like cirrhosis significantly impact COVID-19 progression. Liver dysfunction leads to impaired immune response, increasing disease severity.

Case studies such as this provide valuable insights into managing patients with multiple comorbidities and contribute to evidence-based medicine[4].

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