# Hepatitis C and Neurological Disorders: A Patient's Case Report

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### **Abstract**

**Introduction:** Neurological disorders associated with hepatitis C is most often related to mixed cryoglobulinemia. The aim of this study is to show the severity of neurological disorders during hepatitis C infection.

**Observation:** Mrs. S A, 60 years old, who had been in purpuric rash for six months, associated with physical and psychic asthenia and weight loss at 16 kg in 8 months. The evolution was marked by an alteration of the neurological state of the patient with an installation of motor deficit affecting the 04 limbs, abolition of the osteotendinous reflexes, and a hypoesthesia of the upper and lower limbs. The electromyogram (EMG) showed a sensorimotor polyradiculoneuropathy, and the etiological diagnosis was in favor of a peripheral neuropathy secondary to a cryoglobulinemia, related to hepatitis C. In addition, the patient presented after a few days of headaches, a sharp drop in visual acuity and high blood pressure, this is complicated by two episodes of convulsive seizures. A cranial CT scan is performed in an emergency without abnormalities, with no sign in relation to thrombophlebitis after injection of contrast agent. The diagnosis retained is a central neurological disease secondary to infection with the virus c associated with peripheral neurological disease.

**Conclusion:** Neurological disorders associated with hepatitis C are rare but poor prognosis threatening the functional and vital prognosis of patients.

**Keywords:** Hepatitis C; Mixed cryoglobulinemia; Neurological disorders

### Introduction

Hepatitis C is an infectious disease that a ects the liver with predilection but also a ects other organs, and is thus considered a disease of the system. Neurological damage associated with hepatitis C is most o en related to mixed cryoglobulinemia, typically peripheral, sometimes central, and poor prognosis [1].

e aim of our work is to show through an observation the severity of neurological damage during hepatitis C infection.

## Case Report

Mrs.ylfbAş 60 years oya; e

### Discussion

Neurological manifestations in hepatitis C are present in 9 to 45% of cryoglobulinemics, [2-4] the predominant clinical form in 70% of cases is that of sensory or sensory-motor polyneuropathy predominant to the lower limbs, more rarely (30%) mononeuropathy or multiple e prolonged evolution is by pushes, with mononeuropathy [45]. stabilization, remission or exacerbation of symptoms sometimes triggered by exposure to cold. e electromyogram of the four limbs confirms the axonal neuropathy with alterations of the sensory and/or motor potentials, or even of the motor conduction. Rarely, cryoglobulinaemia associated with hepatitis C may be complicated with other types of peripheral neuropathies, such as polyradiculoneuritis. Central neurological disease is characterized by encephalopathies, convulsions, cerebral vasculitis with cerebral infarction and cranial palsy [6]. Alterations in upper functions have been reported, including cognitive and attention def cltsžassociated or not with depressive syndrome or chronic fatigue syndrome. central neurological manifestations are rare and poor prognosis in relation to peripheral manifestations [7]. Our case reports a case of peripheral and central neurological disorders during a cryoglobulinemia with chronic viral hepatitis C, which was severe in causing sensory-motor defc|t with abolition of the osteo-tendinous ref el esž Explained by an important alteration of the nerve roots of the two upper and lower limbs. Central nervous system disorders began with decreased visual acuity, arterial hypertension and headache, which were rapidly aggravated by two episodes of convulsive seizures with altered consciousness. e evolution was fatal and the patient died a few hours a er admission to intensive care, this reinforces the data of the literature concerning the severity of the central neurological manifestation. In addition, several cohort studies have shown the existence of epidemiological, dinical and biological factors strongly associated with the production of mixed cryoglobulinemia during chronic hepatitis C virus infection, including female sex, advanced age, Genotype 2 or 3 and extensive liver f brosls [89]. Two of these factors are present in our case and which have led to the diagnosis of an extra-hepatic disorders of hepatitis C.

### Conclusion

Our patient illustrates the case of an exceptional neurological