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Neurological and psychiatric effects of hepatitis C virus infection

Faccioli J *et al.* Neuropsychological disorders and HCV infection

² Jessica Faccioli, Silvia Nardelli, Stefania Gioia, Oliviero Riggio, Lorenzo Ridola

Abstract

³⁰ Hepatitis C virus (HCV) infection is widespread and affects 71 million people worldwide. Although hepatic manifestations are the most frequent, ⁵ ranging from chronic hepatitis to cirrhosis with hepatocellular carcinoma, it is associated with several extrahepatic manifestations. Infected patients may present non-specific neurological symptoms, ⁵ regardless of the presence of liver cirrhosis. Several pathogenetic mechanisms underlying neurological symptoms have been hypothesized:

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Among the extrahepatic manifestations, **neuropsychiatric disorders** have been reported in up to 50% of chronic HCV infected patients. Both the central and peripheral nervous system may be involved with a wide variety of clinical manifestations. Main HCV-associated **neurological** conditions include cerebrovascular events, encephalopathy, myelitis, encephalomyelitis, and cognitive impairment, ...

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An association between hepatitis C virus infection and neuropsychiatric symptoms has been proposed for some years. A variety of studies have been undertaken to assess the nature and severity of these symptoms, which range from fatigue and depression to defects in attention and verbal reasoning. There is evidence of mild neurocognitive impairment in some patients with HCV infection, which is not fully ...

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HCV may also be associated with depressed mood, particularly somatic depressive symptoms. Although confounding contributors to **neuropsychological** performance are difficult to exclude, exploratory modeling supports the association between **HCV infection** status and some impairment of **neuropsychological** performance and depressed mood. PMID: 16251830

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Psychiatric implications of hepatitis-C infection.

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Symptoms associated with antiretroviral therapy, interferon-alpha (IFN-alpha), include acute confusional states, delirium, depression, irritability, and even mania. These psychiatric symptoms are further complicated by the high rate of substance abuse and comorbid HIV infection inherent to this population.

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Chronic hepatitis C virus (HCV) infection exhibits a wide range of extrahepatic complications, **affecting** various organs in the human body. Numerous **HCV** patients suffer **neurological** manifestations, ranging from cognitive impairment to peripheral neuropathy. Overexpression of the host immune response ...

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Main HCV-associated **neurological** conditions include cerebrovascular events, **encephalopathy**, myelitis, encephalomyelitis, and cognitive impairment, whereas "brain fog", depression, anxiety, and fatigue are at the top of the list of **psychiatric** disorders.

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