

Annual Conference on
BACTERIAL, VIRAL AND INFECTIOUS DISEASES
&
NEGLECTED TROPICAL DISEASES CONGRESS: THE FUTURE CHALLENGES
December 05-06, 2018 Dubai, UAE

Liver stiffness predicts relapse after direct acting antiviral therapy against chronic Hepatitis C Virus infection

Ghweil Ali Abdelrahman¹, Mohamad M Helal¹, Mohammad Alsenbesy¹ and Ashraf Khodery²

¹South Valley University, Egypt

²Sohag University, Egypt

Background & Aim: Assessment of fibrosis in chronic hepatitis has always been considered of utmost relevance for patient care in clinical hepatology. Over the last years, multiple non-invasive methods were used for diagnosis of hepatic fibrosis, including transient elastography in addition to clinical and biochemical parameters or combinations of both methods. Serum markers and elastography are considered useful techniques for diagnosing severe liver fibrosis and cirrhosis and for excluding significant fibrosis in hepatitis C virus infected patients. Also, liver stiffness may help to foretell treatment response to antiviral therapy. We aimed to evaluate changes of transient elastography values as well as serum fibronectin and AST to Platelet Ratio Index in Patients (APRI) treated with sofosbuvir based treatment regimen.

Methods: This is a follow-up study including 100 chronic HCV Egyptian patients treated with sofosbuvir-based treatment regimen. Transient elastography values were recorded as well as serum fibronectin and APRI were calculated at baseline and SVR12.

Results: There was a significant improvement of platelets counts, ALT and AST levels, which in turn cause significant improvement in APRI scores at SVR12. Liver stiffness measurements were significantly lower at SVR12 (15.40 ± 8.96 vs. 8.82 ± 4.74 kPa, $P=0.000$). There was significant decline in serum fibronectin from baseline to SVR 12 (524.14 ± 237.61 vs. 287.48 ± 137.67 , $P=0.000$).

Biography

Ghweil Ali Abdelrahman was a Resident of (Tropical medicine and Gastroenterology) for three years. He worked as a Clinical demonstrator and assistant lecturer of Tropical medicine and Gastroenterology, Sohag University. He was working as a Lecturer of Tropical medicine and Gastroenterology, South Valley University. Currently, he is the Head of Tropical Medicine and Gastroenterology department, South Valley University. He is also a member of the European Society of Liver Diseases (EASL).

alimena1@yahoo.com

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