

Title: Serum Diagnostic Markers for Hepatocellular Carcinoma Associated with HCV Infection

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Hepatitis C virus (HCV) is a single stranded RNA virus, *Flaviviridae* family. It is the main cause of chronic HCV diseases like Fibrosis, Cirrhosis, HCC and end stage liver disease.world wide, 71 millions individuals have HCC resulted from HCV chronic infection with about 790 thousands annual deaths. A major cause of high mortality rate due to HCC is the lack of early diagnostic resources.

There is a great need of a sensitive, specific and non-invasive diagnostic marker to detect HCC in the earlier stages.we studied four protein markers in serum (SAA2, KNG1, PON1 and GAL3) that were significantly elevated in HCV-related HCC patients in previous study in our lab using C-MS/MS screening analysis and separated on SDS-PAGE gel electrophoresis. estimation of proteins concentration were done in 52 patients infected by HCV-free HCC , 51 with HCV-related HCC in addition to 40 healthy participants as a control group. proteins concentration were performed using sandwich ELISA technique. From the studied biomarkers
SAA2 provided the highest diagnostic accuracy (AUC=0.925) for HCC patients at ($p<0.001$). morever, the diagnostic accuracy increased slightly when we used the panel of SAA2 with AFP together to (AUC=0.946) for HCC patients. SAA2 may have a considerable use in early detection of HCC in both normal population and high-risk patients.

Biography

Erin Sharkawy has Bachelor degree of Science (Biochemistry) in (2012), Diploma of medical tests – Biochemistry analysis (2013), Master degree in biochemistry from Cairo University of Science at 27 years old.A member of presedential leadership programme.she is waiting to publish 3 papers in cancer researchs, she worked as bio analytical chemist and Medical Representative, but now she works as a Demonstrator and Molecular biologist at National Cancer Institute. Participate in summer training courses at NCI of Basics of Cancer and Molecular Biology.

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