EuroSciCon
18th International Conference on
Pathology & Cancer Epidemiology
Pathology 2019
October 21-22, 2019 | Rome, Italy



Title: Higher tissue factor expression is associated with increased liver damage in diabetic patients with HCV- related cirrhosis

Author(s) Name: Rawhia Hassan EL-edel (MD)*, Dalia Hosny Abou-Elela (MD)*, Nahla Fekry Osman (MD)*, Mona Farag Mohamed Salama, (M.B.,B.Ch)**

***Clinical pathology department, Menoufia University, Egypt.**

****Resident of clinical pathology department, Menoufia University, Egypt**

Abstract:

Background : Hepatitis C (HCV) infection and type 2 diabetes mellitus (T2DM) are both prevalent diseases worldwide. The exact mechanism by which T2DM worsens liver function is yet to be clarified. Tissue factor (TF) is a key link that connects haemostatic, immune and inflammatory processes.

The aim of this study was to identify a possible role for TF in pathogenesis of hepatic damage in patients with HCV-related cirrhosis and T2DM.

Materials and Methods: Flow cytometry analysis was used for measuring TF (CD142) as well as the costimulatory molecule (CD 86) on lipopolysaccharide activated monocytes (CD14 positive cells) in peripheral blood from 80 subjects divided into 3 groups; 30 patients with HCV- related cirrhosis and T2DM; 30 cirrhotic patients and 20 healthy controls.

Results: Our results revealed higher TF and CD86 expression in cirrhotic patients with T2DM compared to those with cirrhosis and to healthy controls (34.06 ± 5.99, 24.65 ± 6.76 and 11.90 ± 3.04 for TF and 72.09 ± 12.57, 49.38 ± 15.07 and 9.35 ± 3.07 for CD86 respectively; $p < 0.001$). In addition, Higher TF expression was associated with deteriorated liver function ($r = 0.59$, - 0.74 and 0.62; $p < 0.001$ for ALT, Albumin and total bilirubin respectively) and higher Child Pugh grade ($p = 0.01$).

Conclusion: Based on our data, we suggest a possible role for TF in the pathogenesis of liver damage likely through exaggerating the inflammatory process.This can, at least partially, explain the worsened liver function in HCV- related cirrhosis in patients with T2DM.

Biography

Dr Dalia Hosny Abou-Elela has completed her MD from Faculty of Medicine-Menoufia University-Egypt. She has Professional Diploma in Quality and Management Systems in Educational Institutions-Ainshams University-Egypt. She is an associate professor of Clinical pathology departement faculty of Medicine Menoufia University-Egypt she is also the vice manager of molecular unit of the same departement, She has published many papers in reputed journals.

Presenting author details

Full name: Dalia Hosny Abou-Elela

Research interest: Liver diseases, Molecular pathology, and Flowcytometry researches