

بسم الله الرحمن الرحيم



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شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم





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التوثيق الإلكتروني والميكروفيلم قسم

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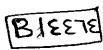


بالرسالة صفحات

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NEUROHORMONAL ACTIVATION, OXYGEN FREE RADICALS AND APOPTOSIS IN THE MECHANISM OF CONGESTIVE HEART FAILURE



Thesis submitted for the partial fulfillment of the M.D. degree in Chemical Pathology

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ABSTRACT

Introduction: A Characteristic feature of heart failure is the deterioration of left ventricular function. A role of immune disturbance has been proposed in CHF, one of them is the cytokines specially TNFa.. Moreover the syndrome of heart failure may result from progressive loss of cardiac cells due to apoptosis. Apoptosis can be triggered by haemodynamic and neurohormonal factors or increased oxidative stress within the failing heart. Patients & Methods: This study was conducted on 51 patients in CHF and 10 healthy control subjects. The patients were classified into 3 groups according to New York Heart association, 6 were in functional class II, 12 in class III and 33 in class IV. Patients were subjected to history taking and full clinical examination, chest X-ray echocardiologic studies and blood analysis of TNFa, angiotensin II and plasma renin activity, sFas and Nitric oxide. Results: There was a significant increase in the TNFa concentrations on comparing group I, II and III to group IV. TNFa was positively correlated with the sFas r=0.38 at a p value =0.003 and was positively correlated with plasma renin activity r=0.337 at a p value =0.01 and with ANG II r=0.385 at a p value =0.002. The hormone renin was increased significantly in all the studied groups compared to the control. There was also a significant increase in the plasma Angiotensin II levels on comparing groups I, II and III with the control group. Angiotensin II was positively correlated with the sFas r=0.385 at a p value =0.02. sFas levels varied significantly from those of normal control subjects (group IV) in all the groups of the study (group I, II and III. Conclusion From this work we can conclude that the immune system is activated in the congestive heart failure The Renin ANG system plays a role in the pathogenesis and progression of congestive heart failure. Nitric oxide was significantly increased in all patients.

KEYWORDS:

Congestive Heart Failure – Apoptosis – Cytokines – Renin-angiotensin system - Nitric Oxide.



To My Beloved Family

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