



وزارة التعليم العالي والبحث العلمي
جامعة المثنى
كلية العلوم

دراسة بعض المتغيرات الكيميائية والفسيولوجية للمصابين بتصلب شرايين القلب التاجية في محافظة المثنى

رسالة مقدمة إلى

مجلس كلية العلوم / جامعة المثنى

وهي جزء من متطلبات نيل درجة ماجستير في

علوم الحياة / علم الحيوان

من قبل

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بإشراف

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Abstract

The study aims to measure some biochemical and physiological parameters change in patient affected by atherosclerosis in coronary artery in AL-Muthana province , and compare the biochemical results of patient with the control group (healthy people) to determine any significant results found. Our study includes (105) patients and (30) healthy people divided into (15) male and (15) female in age range of (25-75) years . The study was conducted between 1/12/2011 to 1/5/2012.

The patients were divided into four groups :

Group (A): (30) patients affected by atherosclerosis .

Group(B): (30) patients affected by atherosclerosis and suffer from hypertention .

Group(C): (30) patients affected by atherosclerosis and had diabetes mellitus .

Group(D): (15) patients affected by atherosclerosis and suffer from hypertention and had diabetes mellitus .

The parameter of our study includes :

TC, TG, HDL, LDL, VLDL, CPK, LDH, GOT, GPT , CRP , blood urea , WBCs count, RBCs count, PCV, Hb.

The study results showed the following :

1 – Lipid profile : the statistical analysis for TC, TG , HDL , LDL .VLDL showed a significant increase ($p < 0.05$) compared with control group, while HDL showed significant decrease ($p < 0.05$) compared with control group.

On the other hand there is significant change between the groups A,B,C and D in TC, HDL , LDL level.

2- Enzymes & Proteins: the results showed a significant increase ($P < 0.05$) in the enzymes LDH,CPK,GOT and GPT in patients affected by atherosclerosis compared with control group, while there is significant change ($p < 0.05$) in the groups A,B,C, and D in LDH level.

The (c-reactive protein) showed positive results in the group A,B,C and D.

3- Blood urea : there is no significant change in the blood urea in all groups .

4- physiological change : the results showed a significant increase ($p < 0.05$) in WBCs in the groups A,B,C and D compared with control groups while there is no significant change in RBCs count , PCV, Hb.