

---

# **ASTUDY OF HOMOCYSTEINE LEVEL IN PATIENTS WITH CORONARY ARTERY DISEASE**

**HEND MOHAMMED ESMAIL**

This thesis was carried out to study the level of Hcy in coronary artery diseases patients, and to find the relation between elevation of Hcy level and both severity of the disease, and plasma folic acid level. It was performed on 50 subjects categorized as follows: •Twenty patients suffering from occlusion of less than two coronary arteries as proven by coronary angiography. They were 16 males and 4 females with age ranging from 40 to 67 years (mean of 51 years). •Fifteen patients were having two or more affected coronary arteries as proven by coronary angiography. They were 14 males and 1 female with age ranging from 35 to 73 years (mean of 56 years). •Fifteen apparently healthy individuals, 3 females and 12 males with age ranging from 27 to 65 years (mean of 48 years). All the subjects (cases and control) were not risky i.e. non-smoker, not diabetic, not hypertensive and with negative family history of angina or myocardial infarction. Serum and plasma samples were obtained from the cases and control subjects after 14-hours fasting. All subjects (control & cases) were subjected to the following investigations. 1- Total plasma homocystine by enzyme immunoassay (EIA). 2- Plasma folic acid by Radio-Immunoassay (RIA). 3- Serum blood glucose.