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P2.48: ARTERIAL HYPERTENSION AS A PROGNOSTIC FACTOR IN THE EARLY EVALUATION OF PATIENTS AFTER MYOCARDIAL REVASCULARIZATION SURGERY

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118 Abstracts

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Aim: The relationship between carotid pathology and risk factors (RF) in hypertensive patients for cerebrovascular disease (CVD).

Methods: Color duplex sonography of carotid arteries was performed in 924 hypertensive patients: 368 with RF for CVD, 126 with transient ischemic attacks (TIA), 287 with chronic unilateral infarction (CUI) and 143 with multiple infarctions. The intima media thickness (IMT) was measured in B-and M- mode. No modifiable (age, sex) and some modifiable (hypertension diabetes, atrial fibrillation, dyslipidemia, carotid artery stenosis, obesity, hemorheological variables FR were evaluated. In 368 subjects with RF, 57 with CVD (31 with TIAs and 26 with CUI) and 16 healthy correlative clinical, neurosonographic and echocardiographic studies were performed.

Results: Arterial hypertension was the most common RF in all patients. An asymmetrical hypertrophy of the left ventricle and a decrease contractility was found as a typical diastolic dysfunction in most of them. Mild stenosis of ICA predominated in all groups while moderate or severe carotid stenoses were relatively rare. Symptomatic thromboses of ICA were seen in 4, 5 % in patients with CUI. IMT of the ICA on the site of infarction correlated positively with the arterial blood pressure (r = +0.60, p < 0.05). A positive was established between CCA, diastolic blood flow and cardiac ejection fraction in patients with TIAs and CUI.

Conclusion: The study confirms clinical impact of carotid pathology alone or its association with other RF is under consideration. The changes of variables of hemorheology, lipids, blood pressure are related to other RF for CVD.

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ARTERIAL HYPERTENSION AS A PROGNOSTIC FACTOR IN THE EARLY EVALUATION OF PATIENTS AFTER MYOCARDIAL REVASCULARIZATION SURGERY

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Objetives: to see the prevalence and clinical evolution of hypertensive patients after myocardial revascularization surgery (MRS) in the Coronary Unit.

Methods: a retrospective study for the evaluation of the characteristics and the evolution, in the Coronary Unit, of 72 patients (pts) that underwent MPS

Results: the prevalence of AHT before surgery was 88.8%, (61% treated with beta blockers, 51% ACEI, 12% received calcium antagonists and 15% diuretics). From the hypertensive ptes, 60.6% presented AHT during the stay in the ICCU (75.6% of men and 37.5% of women) (p=0.004). In the ICCU the pts with AHT were treated with nitroglycerin (NTG) in the 95.6% of the cases. The most frequent cause of early postoperatory complications were the taquiarrithmias and mayor bleedings but we did not find a relation between these complications and AHT in the early postoperatory. Bleeding was found in 24% of the pts that developed AHT postoperatory vs. 12% of the pts that did not developed AHT presented taquiarrithmias vs. 12% of the pts that did not developed AHT (NS). Patients were sent home with Beta Blockers in the 95.4 of the cases, with ACEI in the 64% and only the 14 was sent home with CA.

Conclusions: 1.AHT has a very high prevalence among pts that has received MRS. 2. AHT was more frequent in previously hypertensive men than in women in the early postoperatory of MRS. 3. AHT was not significantly associated with bleeding or taquiarrithmias. 4. Beta Blockers and ACEI were the drugs prescribed to the pts after the acute phase of MRS in the majority of the cases.

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THE ASSOCIATION OF ARTERIAL STIFFNESS WITH ERECTILE DYSFUNCTION IN MIDDLE-AGED MEN WITH METABOLIC SYNDROME

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Background: Erectile dysfunction (ED) has been considered as a clinical manifestation of a generalized arterial disease. Aortic stiffness and wave reflections are early markers of vascular changes associated with metabolic syndrome (MetS). We evaluated the possible association between aortic stiffness, wave reflections and ED in middle-aged patients with MetS.

Methods: Two groups of subjects with MetS (mean age: 48 years) were investigated:75 men with ED of vascular origin and 55 men with normal erectile function matched for age, body mass index (BMI), systolic and diastolic blood pressure, heart rate and smoking habits. MetS was defined according to the ATP III criteria. ED diagnosis and score were evaluated according to the International Index of Erectile Function (IIEF) questionnaire. Carotid-femoral Pulse Wave Velocity (PWV) was measured as an index of aortic stiffness and radial Augmentation Index (Alx) as a measure of wave reflections.

Results: PWV was higher in patients with ED than in the control group $(8.3\pm1.1 \text{ vs } 7.9\pm0.8 \text{ m/s}, P<0.05)$; Alx did not differ $(24.3\pm10 \text{ vs } 23.9\pm11\%, P=NS)$. To analyze the independent predictors of IIEF score, a stepwise linear regression analysis was performed using age, BMI, blood pressure, waist circumference, lipid profile, hsCRP and fibrinogen as independent variables. IIEF was independently associated only with PWV (beta=-0.273, t=-1.363, P=0.02).

Conclusion: In middle -aged subjects with MetS, the presence of ED is associated with a selective alteration of central PWV. This finding suggests that this group of patients may be at greater cardiovascular risk.

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ENDOTHELIUM DYSFUNCTION IS THE RISK FACTOR FOR CARDIOVASCULAR EVENTS IN METABOLIC SYNDROME PATIENTS WITHOUT EVIDENCE OF CORONARY HEART DISEASE

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Background: Impaired function of endothelium has been reported to be the initial step in atherosclerosis and thus may be seen as either independent cardiovascular risk factor or a marker of a present underlying abnormality. Materials: 302 metabolic syndrome patients were examined (aged 36.4 ± 2.1 years, 55% males). Baseline examination included routine clinical examination, laboratory tests, cardiac ultrasound, ECG- and blood pressure monitoring. As endothelium-dependent vasoreactivity is advocated as a measure of vascular health, using a high-resolution ultrasound, the diameter of the brachial artery at rest and during reactive hyperaemia (endothelial-dependent flow-mediated dilatation, $\Delta FMD\%$) was measured. Study group comprised 104 participants (37.0 \pm 3.6 years, 54% males), with endothelium dysfunction (ED) at baseline, Δ FMD 189.2 \pm 19.7%. Control group included 198 patients without ED (35.8 \pm 2.6 years, 56% males), ΔFMD 143.5 \pm 10.3%. Coronary heart disease (CHD) was excluded using coronary angiography or stress echocardiography. Follow-up assessments were performed at two and seven years (including stress echocardiography).

Results: at two years follow-up 36.5% of study group patients developed CHD comparing to 13.1% among the controls (RR= 2.78, $\chi^2_{(1)}$ =22.37); at seven years follow-up total CHD incidence was 0.865 for study group and 0.353 for controls (RR=2.45, $\chi^2_{(1)}$ =71.71), fatal cardiovascular events were registered in 7.69% and 3.03% respectively (RR=2.57, $\chi^2_{(1)}$ =3.325).

Conclusion: In patients with metabolic syndrome not having CHD endothelium dysfunction should be regarded as an independent risk factor.

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PRECLINICAL ATHEROSCLEROTIC DISEASE AND METABOLIC SYNDROME: A PREDIABETES STAGE?

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Aim: In ESH/ESC 07 Guidelines, Metabolic Syndrome (MS) and subclinical vascular disease (VD) are stressed as important markers of high risk in asymptomatic subjects. We compared the severity of VD by ultrasonography in patients (p.) with MS and Diabetes Mellitus (DM) and control (C) p. to analyze the relationship between the metabolic condition and the severity of VD.

Methods: We did in the same procedure 1) CIMT 2) Plaques characterization, 3) PWV and 4) FMD with a strict quality control. We set a score (VS) from 0 to 5 according to the severity of the VD. The CV Risk using Framingham score (FS) was also obtained from medical records.

Results: We performed a cross sectional, observational study on 292 matched p., 125 C without dyslipemia or overweight, 138 with MS (according ATP III criteria) and 29 with DM..

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