SUMMARY

This study was designed &determine the incidence of latent schaemia in diabetic patients with normal resting electrocardio-ams, using maximal treadmill exercise testing, and to corrate the duration as well as the severity of diabetes to the esence of ischaemic manifestations in the stress electrocardio-am.

The clinical material on which this study was based nsisted of two asymptomatic diabetic groups. The first, consisted ten recently discovered asymptomatic diabetic patients ,while e second consisted of ten old asymptomatic diabetics and twenty rmal subjects were taken as control.

All had normal resting electrocardiograms. The three oups were subjected to maximum treadmill exercise test d to laboratory investigations by taking blood samples and timating the fasting, post-prandial blood sugar level, serum gh and low density lipoprotein cholesterol, serum uric acid d serum potassium. The control group was subjected to cortine stress test to exclude latent diabetes.

There was no ischaemic electrocardiographic changes ter the treadmill exercise test. Regarding the hemodynamic rameters in the treadmill test, there was a significant: fference between the diabetic groups and the control group

egarding the duration of exercise with longer duration in the control, the maximum heart rate with higher values in the ontrols and the Δ Heart rate with higher values in the control. lowever, there was no significant difference between the diabetic roups and the control group regarding the maximum systolic lood pressure and the Δ systolic blood pressure.

omparing the exercise tolerance in the recently discovered iabetic group and the old diabetic cases, there was no significant ifference regarding the duration of exercises, maximum heart ate, Δ heart rate, maximum systolic blood pressure, however significant difference was observed regarding the Δ systolic lood pressure with higher values in the old diabetic cases. here was no significant difference regarding serum uric acid, DL cholesterol level between the three groups, still a significant difference regarding LDL cholesterol level with higher alue in cases with mild diabetes and lowest values in cases ith severe diabetes.

It is indicated from the study that asymptomatic diabetic atients have poor exercise tolerance when compared to the control, not the low density lipoprotein cholesterol, high density ipoprotein cholesterol and serum wric acid have no relation o the severity of diabetes nor to the duration.

It is recommended for maturity onset asymptomatic iabetics that a yearly stress testing should be performed and henever: any indication for more investigatory procedure sets in,

Echocardiography radionuclide studies, coronary arteriography and / or left ventricular biopsy should be carried out.