## ELECTRONIC GUIDE TO THESES APPROVED BY PHYSICAL THERAPY DEPARTMENT FOR OBSTETRICS AND GYNAECOLOGY AND ITS SURGERY PREPARED BY NERVEEN ABD EL SALAM ABD EL KADER AHMED

## Physical Therapy Department for Obstetrics and Gynaecology and Its Surgery

## Master Degree 2003

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Title	:	Effect aerobic exercise training on placental blood flow in
		pre-eclamptic and diabetic patients.
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Degree	:	Master.
Year	:	2003.
Abstract	:	

This study was done to examine the effect of aerobic exercise training on the placental blood flow of pre-eclamptic and diabetic patients. thirty volunteers ' pregnant women at 24 weeks ' gestation, 15 had pre-eclampsia (PE)(Group A)and 15 had diabetes (Group B)were selected from the in-patients department of obstetrics at Bab El-Sheria, El-Azhar University hospital. both groups (A, B)were enrolled in the same exercise - training program (started by 5 min. warm up, 20 min. of active exercise at 60% of the maximum heart rate and ended by 5 min. cool down), for one month (3sessions per week). evaluations of all patients were done before and after the end of the exercise training program through measuring maximum systolic, end diastolic velocities of the umbilical artery, systolic / diastolic (S/D)ratio, resistance index (RI)and plasticity index (PI). the results of this study revealed that moderate aerobic exercise training program had a positive effect of increasing the placental blood flow in pre-eclamptic and diabetic pregnant women as it was significantly decreased (P<0.05)the maximum systolic velocity, S/D ratio, RI and PI, while end diastolic velocity increased significantly (P<0.05). accordingly, it could be concluded that moderate aerobics exercise training program is easy to be performed safe and has no harmful effect either on the mother or her fetus, as well as it has a positive effect of improving placental blood flow in pre-eclamptic and diabetic pregnant women.

Key words	1.	Aerobic exercise.
	2.	placental blood flow.
	3.	pre-eclampsia.
	4.	diabetes mellitus.
	5.	pregnancy.
Arabic Title Page	:	تاثير التمرينات الهوائية علي سريان الدم المشيمي في مريضات تسمم الحمل
		البسيط والداء السكرى.
Library register number	:	1000-1001.