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Title: Spiroergometry among smoking and non-smoking patients

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Body: Aim: To evaluate of parameters of spiroergometry at smoking and non-smoking patients. Materials and methods. 47 patients were examined (20-were smoking (an index of smoking 15 packs/years), 27-non-smokers). The mean age of the first group was $42,6 \pm 7,4$ years and second- $40,0 \pm 7,6$ years, $p > 0,05$). The next parameters of a spiroergometry were studied: Heart rates (HR), Sistolic blood pressure, Diastolic blood pressure, VO₂peak, VCO₂peak, VEpeak, O₂-puls, EQCO₂, PET CO₂rest. Results: Characteristics of parameters of spiroergometry at smoking and non-smoking patients.

Parameters	Smokers (n=20), M \pm σ	Non-smokers (n=20), M \pm σ	P
HR rest	76,0 \pm 12,1	75,7 \pm 12,6	>0,05
HR maximum	145,1 \pm 18,9	155,4 \pm 13,6	0,04
HR 5 min of rest	111,5 \pm 15,4	104,6 \pm 16,8	0,007
Sistolic blood pressure rest	114,6 \pm 12,9	106,9 \pm 12,9	0,04
Sistolic blood pressure maximum	178,8 \pm 22,3	167,8 \pm 29,3	>0,05
Diastolic blood pressure 5 min of rest	111,1 \pm 13,8	105,0 \pm 13,9	>0,05
Diastolic blood pressure rest	86,1 \pm 9,5	83,6 \pm 9,5	>0,05
Diastolic blood pressure maximum	109,3 \pm 12,6	100,9 \pm 14,2	0,032
Diastolic blood pressure 5 min of rest	88,2 \pm 10,5	79,6 \pm 11,1	0,006
Load maximum	113,8 \pm 27,5	120,4 \pm 27,8	>0,05
VO ₂ peak	11,7 \pm 3,6	13,3 \pm 3,3	>0,05
VCO ₂ peak	12,3 \pm 4,1	14,0 \pm 3,5	>0,05
VEpeak	543,0 \pm 208,8	663,1 \pm 178,0	0,031
O ₂ -puls	6,5 \pm 2,6	6,1 \pm 1,6	>0,05
EQCO ₂	43,2 \pm 6,6	45,5 \pm 4,2	>0,05
PET CO ₂ rest	28,7 \pm 3,1	28,0 \pm 2,4	>0,05

Conclusions: The smoking patients had higher indicators of HR on 5 minute of rest, systolic blood pressure of rest diastolic blood pressure upon the maximum loading and on 5 min of rest than non-smokers.