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Title: Risk factors of development of endothelium dysfunctions at smokers

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Body: Aim: To evaluate the risk factors of development of endothelium dysfunctions among smokers. Materials and methods: The research has been conducted amongst 100 smoking patients. Brachial artery blood flow reactions to hyperemia were studied by doppler sonography in all patients. Data on risk factors, was gathered through questionnaires. We identified 2 groups, 1 of them – the patients having endothelium dysfunction (n=66) and 2- not having endothelium dysfunction (n=34). The OR (odd ratio) and 95% confidence interval (95%CI) were calculation. Results: The risk factors significantly associated with female sex (OR=1,17; 95 % CI:0,36-3,68), beginning of smoking till 15 years (OR=1,34; 95 % CI: 0,34-5,59), the beginning of smoking with 16 till 20 years (OR=1,06; 95 % CI: 0,43-2,64), an index of smoking ≥ 30 pack/years (OR=1,18; 95 % CI: 0,3-5,03), duration of smoking more than 30 years (OR=1.14; 95 % CI: 0,35-3,83). Conclusion: The risk factors of development of endothelium dysfunctions have greater impact on female sex (p=0,00001), beginning of smoking till 20 years (p=0,03), an index of smoking ≥ 30 pack/years (p=0,0001) and duration of smoking more than 30 years (p=0,00001).