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Abstract

Nitric oxide (NO) is a major antiatherosclerotic factor produced by the endothelium. Endothelial dysfunction that causes impaired bioavailability of NO, is an early marker of atherosclerosis. Various angiographic scoring system are used to quantify the characteristics of atherosclerotic coronary artery lesions. Sullivan scoring system is one of the angiographic scoring system that can demonstrate a link between the severity of coronary artery lesions with atherosclerotic plaque burden. The main objective of this study to prove the correlation between plasma NO level and severity of coronary artery stenosis based on Sullivan scoring system in stable angina patient. This was an observational analytic study, cross sectional, involving 25 patients with stable angina who underwent catheterization. Plasma NO levels significantly correlated well with the severity of coronary artery stenosis based on Sullivan vessel score \((r = -0.75, \ p = 0.000)\), with the severity of coronary artery stenosis based on Sullivan stenosis score \((r = -0.67; \ p = 0.000)\), and with the severity of coronary artery stenosis based on Sullivan extent score \((r = -0.63; \ p = 0.001)\). The higher plasma NO level, the lower the degree of severity of coronary artery stenosis by Sullivan vessel score, stenosis score dan extent score. In conclusion, plasma NO levels has a significant correlation with the severity of coronary artery stenosis based on Sullivan scoring system in patients with stable angina. (FMI 2015;51:22-30)

Keyword : nitric, oxide, Sullivan, scoring, system, stable, angina,

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