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**CORRELATION BETWEEN RESISTIN SERUM WITH
CAROTID INTIMA MEDIA THICKNESS (C –IMT)
PROGRESSION IN POST ISCHEMIC STROKE PATIENTS**

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Abstract

Background. Atherosclerosis in post-ischemic stroke patients was characterized by carotid intima-media thickness. Resistin contributes to endothelial walls dysfunction. Correlation between serum resistin and atherosclerosis progression in post-ischemic stroke patients have rarely been studied.

Objectives. The purpose of this study was to find the correlation between serum resistin and carotid intima-media thickness (C-IMT) progression in post-ischemic stroke patients.

Methods. This was a cohort observational study at outpatient neurology clinic dr. Kariadi hospital Semarang. The serum resistin level was determined and carotid duplex ultrasound was performed on subjects. After 6 months, the second carotid duplex ultrasound examinations were performed. Data was analyzed using binary logistic regression to assess the correlation between serum resistin and CIMT progression.

Results. Seventy-two subjects, mean age 61.64 (SD = 7.99) years, and 44 males (61.1%), were recruited in this study. CIMT progression was found in 49 cases (68.05%). Mean serum resistin level was 12.4 (SD = 10.2) ng/mL. No significant difference was found in serum resistin levels between patients with and without CIMT progression in post – ischemic stroke patients

Conclusion. There was no correlation between serum resistin levels and CIMT progression in post-ischemic stroke patients.

Keywords. Serum resistin level, atherosclerosis progression, carotid intima-media thickness, post-ischemic stroke.

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