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Short Chain Fatty Acids Level are Associated with Lipid Profile in Patients with Coronary Slow

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ABSTRACT

Background: The phenomenon of Coronary Slow Flow (CSF) is an angiographic clinical verity, which is characterized by late opacification of the distal segments of the coronary artery without having significant stenosis. However, a definite and reliable mechanism of CSF is still not known. Short-chain fatty acids (SCFA) such as acetate, butyrate, and propionate are produced as a result of the fermentation of indigestible dietary fibers in the gut by the microbiota. Many studies have investigated the role of SCFA as a related signaling pathway in inflammation, glucose metabolism, and lipid metabolism. In this study, we investigated the correlation between Short Chain Fatty Acids and Lipid Profile serum in Patients with Slow Flow Coroner

Materials and Methods: A cross sectional study was conducted at dr. Zainoel Abidin Hospital of Banda Aceh. All consecutive patients scheduled for coronary angiography between July 2021 to Desember 2021. CSF was diagnosed based on the Thrombolysis In Myocardial Infarction (TIMI) frame count (TFC) of coronary flow. Data was obtained through laboratory examination and stool samples. Stool samples were analyzed for SCFA (acetate, propionate, and butyrate acids) with gas chromatography.

Results: The results of the present study indicate that SCFA, acetate, propionate, and valerate did not show a significant correlation with lipid profile ($P>0.05$). The level of fecal butyrate was negatively correlated with HDL ($p<0.05$; $r = -0.532$).

Conclusions: Our study indicated that the level of butyrate was a moderate negative correlated with HDL inpatient with slow flow coroner

BIOGRAPHY (upto 200 words)

I am a lecturer at the Internal Medicine Department Faculty of Medicine Syiah Kuala University since 2019. I did my undergraduate study at Faculty of Medicine Syiah Kuala University in 2011 then continued internist at Faculty of Medicine, University of Syiah Kuala in 2013. My research interests are microbiota in colorectal cancer and cardiology intervention.

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