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COMPARISON OF PLATELET ANTI AGGREGATION EFFECT ON ACUTE THROMBOTIC STROKE WITH DIABETES MELITUS AND NON-DIABETES MELITUS

1. Adeltrudis Adelsa --> Faculty of Pharmacy, Airlangga University / mohabbat.elcha@gmail.com
2. Siti Sjamsiah --> Dosen Fakultas Farmasi
3. Mohammad Saiful Islam --> Dosen Fakultas Kedokteran

Abstract

Stroke was the highest cause of death and disability of all ages (15.4%) in Indonesia based on RISKESDAS 2007. Thrombotic stroke is one of ischemic stroke that had prevalence of 58.3%. Acetosal/ASA is one of anti-platelet which has been used widely as secondary prevention for stroke meanwhile, diabetic melitus (DM) was one of the risk factor. Anti-aggregation platelet effect was measured by Light Transmission Aggregometry (LTA). The test had been done twice, before and after ASA usage for 7-10 days. 24 patients that were involved, hospitalized for acute thrombotic stroke at least 7-10 days, 15 from non-diabetic group and 9 from diabetic group. The results showed that there is no significant difference in demographic and risk factors for those patients (X2 test, p>0.05). The aggregation percentage were analyzed statistically by pair t-test for pre-and post-within group, and independent t-test to compare those two groups. The aggregation percentage of diabetic patients (n=9) was 11-48% (pre) and 7-43% (post). Meanwhile, the aggregation percentage of non-diabetic patients (n=15) was 13-64% (pre) and 13-39% (post). The usage of ASA 1 x 100 mg gave lowering aggregation percentage (t<0.05). For the comparison between diabetic and non-diabetic patients with acute thrombotic stroke, there were no difference (p>0.05). It can be concluded that there were no difference on anti-platelet aggregation of ASA between diabetic and non diabetic patients with acute thrombotic stroke. For practical purpose, it can be suggested to confirm percentage aggregation ASA with instrument that applied reliable clinical meaning. (FMI 2013;49:163-167)

Keyword : acetyl, salicylic, acid, (ASA), diabetic, platelet, aggregation, thrombotic, stroke,

Daftar Pustaka: