

Association Between Aspirin Resistance and Blood Lipid Profile in Patients of Ischemic Stroke: A Meta-Analysis

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Abstract

In ischemic stroke patients, aspirin resistance has been linked to an altered lipid profile. This study was undertaken to explore the association of blood lipid profiles with aspirin resistance in ischemic stroke patients. Relevant studies published before November 2022 in PubMed, Medline, EMBASE, and Google Scholar were chosen for this study. Random effects models were used to assess pooled standardized mean and standard deviation (SD) with a 95% confidence interval (CI). RevMan 5 and STATA version 13.0 software were used for statistical analysis. Subjects from eight studies consisting of aspirin resistance and sensitive data were considered in this meta-analysis. Our findings suggested a significant association between the elevated levels of TG in Aspirin resistance groups as compared to non-resistance (SMD 0.83, 95% CI 0.30 to 1.95, p-value < 0.001). However, the meta-influence analysis suggested no significant association when a study with a large effect size was excluded. The results of our comprehensive meta-analysis suggest none of the lipid parameters were significantly associated with aspirin resistance. Further studies might be required to support the findings of this meta-analysis.

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