

Clopidogrel resistance is a condition in which the drug clopidogrel is less effective than normal in people who are treated with it.

Kim et al. from the [Asan Medical Center](#) retrospectively analyzed the [data](#) of 427 [patients](#) with [unruptured intracranial aneurysms](#) who underwent [endovascular treatment](#) between July [2011](#) and June [2014](#). When [clopidogrel](#) resistance was confirmed via [platelet reactivity unit](#) (PRU) assay after [dual antiplatelet therapy](#) ([aspirin](#) plus [clopidogrel](#)) administration for 5 days, triple [antiplatelet](#) therapy with [cilostazol](#) was administered (Group I, 274 patients). The other group was placed on standard [dual antiplatelet therapy](#) (Group II, 153 patients). All patients underwent magnetic resonance [diffusion-weighted imaging](#) within 2 days after [endovascular coiling](#).

No significant associations with the occurrence of a [thromboembolic event](#) and microembolic event were found between the groups. The occurrence of thromboembolic and microembolic events showed no statistical difference between groups I and II ($p = 0.725$ for thromboembolic events and $p = 0.109$ for microembolic events). Also, the PRU value and the occurrence of microembolic events, using a PRU cutoff value of 240, showed no statistical difference ($p = 0.114$ in group I and 0.064 in group II). There was significant increase in microembolic events after the use of a stent-assisted endovascular procedure. As the PRU value increased, there was a trend toward an increase in the mean number of microembolic lesions without statistical significance.

Even though there is a presumed anti-thromboembolic effect for [clopidogrel resistance](#) in other literature, the clinical efficacy of adjustment of additional [cilostazol](#) for endovascular [coiling](#) of [unruptured aneurysms](#) may be limited due to the unspecified cutoff value of the PRU assay for evaluating the resistance ¹⁾.

¹⁾

Kim GJ, Heo Y, Moon EJ, Park W, Ahn JS, Lee DH, Park JC. [Thromboembolic events](#) during [endovascular coiling](#) for [unruptured intracranial aneurysms](#): Clinical significance of [platelet reactivity unit](#) and adjunctive [cilostazol](#). Clin Neurol Neurosurg. 2022 Jan 15;213:107133. doi: 10.1016/j.clineuro.2022.107133. Epub ahead of print. PMID: 35065532.

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