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## Correlation between Ferritin serum and Glasgow outcome at discharge scale on patients with Intracerebral Hemorrhage who underwent Surgical treatment

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**Introduction:** Spontaneous Intracerebral Hemorrhage (ICH) is a vascular lesion with high prevalence and devastating outcome, especially related to morbidity. Heterogeneity of ICH case caused by various factors pose problems, one of which is predicting the outcome. Serum ferritin has shown to have a significant value in terms of predicting outcome in ICH patients.

**Method:** This is an analytic study with a prospective cohort design. We analyzed the Glasgow Outcome Discharge Scale (GODS) of patients with spontaneous intracerebral hemorrhages who underwent surgery and analyze its correlation with pre-operative serum ferritin value.

**Result:** Sixty subjects with spontaneous ICH who underwent surgical treatment was enrolled with a mean age of 54.50 years old. Twenty-nine patients (48.3%) assigned to poor GODS and 31 patients (51.7%) assigned to good

GODS. Mean value of serum ferritin in poor GODS group is  $342.75 \pm 336.019$  as for good GODS group the mean ferritin value is  $308.30 \pm 660.968$  with p-value  $> 0.05$ .

**Conclusion:** There is no significant difference between serum ferritin value and GODS score in patients with spontaneous ICH who underwent surgical treatment. Further study with larger and less diverse subjects is needed.

### Speaker Biography

Elric Brahm Malelak is a young neurosurgeon, who completed his study for Neurosurgery at Universitas Padjadjaran, Indonesia at the age of 32 years old. He had neurosurgery fellowship at JCHO Chukyo Hospital Japan. He had oral and poster presentation at several international conference in Indonesia and Japan. Now he is working at Kupang, East Nusa Tenggara, Indonesia as the only one neurosurgeon at the Province.

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