

ABSTRACT

The Relationship Between the Golden Period and the Level of Consciousness of Stroke Patients in the Emergency Department
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Stroke is a neurological emergency that requires immediate treatment to prevent further damage to brain tissue. According to the World Health Organization (WHO, 2025), more than 93.8 million people are living with stroke, with an estimated 11.9 million new cases globally in 2025. The high burden of stroke highlights the importance of prompt treatment, particularly during the golden period. Delays in treatment may worsen neurological conditions, including the patient's level of consciousness. This study aimed to determine the relationship between Golden Period Time and the level of consciousness in stroke patients based on the FOUR Score. This study used a quantitative design with a cross-sectional approach. The sample consisted of 35 stroke patients selected using the consecutive sampling technique according to the inclusion and exclusion criteria. Golden Period Time data were obtained based on the time from stroke onset to initial treatment in the emergency department (ED) and categorized into ≤ 3 hours and > 3 hours, while the level of consciousness was assessed using the FOUR Score. Data were analyzed using the Chi-Square test with $\alpha = 0.05$. The results showed that the most common Golden Period Time was > 3 hours, while the most common level of consciousness based on the FOUR Score was somnolence. The Chi-Square test showed a p-value of 0.012 ($p < 0.05$), indicating a significant relationship between Golden Period Time and the level of consciousness in stroke patients based on the FOUR Score. These findings indicate that timely treatment of stroke patients is important in maintaining neurological condition. Assessment using the FOUR Score can help healthcare professionals quantitatively identify patients' level of consciousness and support neurological monitoring in the emergency department.

Keywords: stroke, golden period, level of consciousness, FOUR Score, emergency department.

ABSTRAK

Hubungan Antara *Golden period Time* Dengan Tingkat Kesadaran Pasien Stroke Di Instalasi Gawat Darurat

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Stroke merupakan kegawatdaruratan neurologis yang memerlukan penanganan segera untuk mencegah kerusakan jaringan otak yang lebih luas. Menurut *World Health Organization* (WHO, 2025), lebih dari 93,8 juta orang hidup dengan stroke dan diperkirakan terdapat 11,9 juta kasus baru secara global pada tahun 2025. Tingginya beban tersebut menunjukkan pentingnya penanganan stroke secara cepat, terutama dalam *golden period*. Keterlambatan penanganan dapat memperburuk kondisi neurologis, termasuk tingkat kesadaran pasien. Penelitian ini bertujuan untuk mengetahui hubungan *Golden Period Time* dengan tingkat kesadaran pasien stroke berdasarkan FOUR Score. Penelitian menggunakan desain kuantitatif dengan pendekatan *cross-sectional*. Sampel terdiri dari 35 pasien stroke yang dipilih menggunakan teknik *consecutive sampling* sesuai kriteria inklusi dan eksklusi. Data *Golden Period Time* diperoleh berdasarkan waktu sejak onset hingga penanganan pertama di IGD dan dikategorikan menjadi ≤ 3 jam dan >3 jam, sedangkan tingkat kesadaran diukur menggunakan FOUR Score. Analisis data menggunakan uji Chi-Square dengan $\alpha = 0,05$. Hasil penelitian menunjukkan bahwa *Golden Period Time* yang paling banyak adalah >3 jam, sedangkan tingkat kesadaran berdasarkan *FOUR Score* yang paling banyak adalah kategori somnolen. Hasil uji *Chi-Square* diperoleh *p-value* sebesar 0,012 ($p < 0,05$), yang menunjukkan terdapat hubungan yang signifikan antara *Golden Period Time* dengan tingkat kesadaran pasien stroke berdasarkan FOUR Score. Hasil tersebut menunjukkan bahwa ketepatan waktu penanganan pasien stroke penting dalam kondisi neurologis pasien. Penilaian menggunakan FOUR Score dapat membantu tenaga kesehatan dalam mengidentifikasi tingkat kesadaran pasien secara kuantitatif sehingga mendukung pemantauan kondisi neurologis di IGD.

Kata Kunci: stroke, *golden period*, tingkat kesadaran, *FOUR Score*, instalasi gawat darurat.