

## ABSTRAK

### UNIVERSITAS MUHAMMADIYAH JEMBER PROGRAM STUDI S1-ILMU KEPERAWATAN FAKULTAS ILMUKESEHATAN

Skripsi, Juni 2026  
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Hubungan *Pre-Hospital Delay* dengan Tingkat Defisit Neurologis Pada Pasien Stroke Non-Hemoragik di IGD RSUD Kaliwates Jember

xxi + 100 halaman + 3 Gambar + 12 Tabel + 14 Lampiran

#### Abstrak

**Pendahuluan:** Stroke non-hemoragik merupakan gangguan mendadak pada jaringan otak yang dapat menyebabkan kelumpuhan atau kecacatan permanen. Defisit neurologis merupakan gangguan berbagai fungsi tubuh mulai dari motorik, sensorik, hingga kognitif. *Pre-hospital delay* adalah waktu sejak gejala Stroke muncul hingga pasien tiba di fasilitas kesehatan, dengan *last known well* digunakan untuk menentukan perkiraan onset gejala. Penelitian ini bertujuan untuk menganalisis hubungan antara *pre-hospital delay* dengan tingkat defisit neurologis pada pasien stroke non-hemoragik di IGD RSUD Kaliwates Jember. **Metode:** Penelitian ini merupakan penelitian kuantitatif dengan desain korelasional melalui pendekatan *cross sectional*. Populasi penelitian berjumlah 63 pasien stroke non-hemoragik di IGD RSUD Kaliwates Jember, dengan sampel 54 pasien yang dipilih menggunakan *consecutive sampling*. Instrumen yang digunakan adalah lembar observasi *pre-hospital delay* dan *National Institutes of Health Stroke Scale* (NIHSS). Analisis data dilakukan menggunakan uji *Spearman Rho*. **Hasil:** Hasil penelitian menunjukkan bahwa setengah (50%) dari jumlah pasien stroke-non hemoragik mengalami *pre-hospital delay* kategori menengah yaitu >3-4,5 jam dan sebagian besar (64,8%) pasien mengalami defisit neurologis sedang. Analisis bivariat menunjukkan secara signifikan terdapat hubungan *pre-hospital delay* dengan tingkat defisit neurologis pada pasien stroke non-hemoragik di IGD RSUD Kaliwates Jember ( $p \text{ value} = 0,001 < \alpha = 0,05$ ;  $r = 0,622$ ). **Diskusi:** Temuan penelitian ini mengkonfirmasi bahwa terdapat hubungan antara *pre-hospital delay* dengan tingkat defisit neurologis pada pasien stroke non-hemoragik di IGD RSUD Kaliwates Jember. Semakin lama keterlambatan menuju fasilitas kesehatan maka semakin memperburuk defisit neurologis yang dialami pasien stroke non-hemoragik.

**Kata kunci:** Defisit Neurologis, NIHSS, *Pre-Hospital Delay*, Stroke Non-Hemoragik

## **ABSTRACT**

### **MUHAMMADIYAH UNIVERSITY OF JEMBER STUDY PROGRAM OF NURSING FACULTY OF HEALTH SCIENCE**

*Thesis, June 2026  
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*The Relationship Between Pre-Hospital Delay and the Severity of Neurological Deficits in Patients with Non-Hemorrhagic Stroke at the Emergency Department of Kaliwates General Hospital in Jember*

*xxi + 100 Pages + 3 Figure + 12 Tables + 14 Appendices*

#### **Abstract**

**Introduction:** Stroke was a sudden disruption of brain tissue that could cause paralysis or permanent disability. Neurological deficits were impairments in various bodily functions, ranging from motor and sensory to cognitive functions. Pre-hospital delay referred to the time from the onset of stroke symptoms until the patient arrived at a healthcare facility, with “last known well” used to estimate the onset of symptoms. This study aimed to analyze the relationship between pre-hospital delay and the level of neurological deficits in patients with non-hemorrhagic stroke who presented to the Emergency Department (ED) of Kaliwates General Hospital. **Methods:** This study employed a quantitative correlational design with a cross-sectional approach. The study population consisted of 63 non-hemorrhagic stroke patients treated at the Emergency Department of Kaliwates General Hospital, Jember, with a sample of 54 patients selected using a consecutive sampling technique. The instruments used were a pre-hospital delay observation sheet and the National Institutes of Health Stroke Scale (NIHSS). Data were analyzed using the Spearman Rho test. **Results:** The results showed that half (50%) of the non-hemorrhagic stroke patients experienced a moderate pre-hospital delay (>3–4.5 hours), and the majority (64.8%) experienced moderate neurological deficits. Bivariate analysis revealed a significant relationship between pre-hospital delay and the level of neurological deficits among non-hemorrhagic stroke patients in the Emergency Department of Kaliwates General Hospital Jember ( $p\text{-value} = 0.001 < \alpha = 0.05; r = 0.622$ ). **Discussion:** The findings of this study confirm that there is a relationship between pre-hospital delay and the level of neurological deficits among non-hemorrhagic stroke patients in the Emergency Department of Kaliwates General Hospital, Jember. The longer the delay in reaching a healthcare facility, the more severe the neurological deficits experienced by non-hemorrhagic stroke patients.

**Keywords:** Neurological Deficit, NIHSS, Non-Hemorrhagic Stroke Pre-Hospital Delay,