



# Factor influencing Pre-hospital Delay among Acute Ischemic Stroke Patients in Rajavithi Hospital

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## ABSTRACT

**Background and objective:** Treatment of patients with acute ischemic stroke (AIS) is time related, delay in treatment may warrant adverse prognosis. Thus, an objective of the present study was to identify factors influencing pre-hospital delay among patients with AIS in Rajavithi Hospital. **Materials and Methods:** Between June and November 2015, a cross-sectional study was carried out in 86 patients admitted with AIS at Rajavithi hospital. All patients were interviewed with a questionnaire focused on socio-demographic, clinical, situational, type of transfer and cognitive factors. Patients were classified by stroke onset time, within 4.5 hours group and > 4.5 hours group. Data were analyzed to identify the factors influencing pre-hospital delay [> 4.5 hours after stroke onset]. **Results:** In total, 86 patients were enrolled in the study, 60.5% patients arrived after 4.5 hours of onset. Patients with diabetes [crude OR = 3.24], gradual onset [crude OR = 16.88], awakening with symptoms [crude OR = 10.33], onset location at home [crude OR = 10.33], considered any kind of the symptoms as not severe [crude OR = 4.97], not using the emergency number [crude OR = 6.58] and not recognizing the problem as stroke [crude OR = 10.93] had a significantly more delay in arriving to the hospital. **Conclusion:** Our findings emphasize the importance of cognitive factors on the decision-making process and pre-hospital delays. Health care providers can educate the public on AIS, enabling recognition the signs and symptoms of AIS correctly and realize the benefits of early treatment. **Keywords:** acute ischemic stroke, pre-hospital delay, prevalence

## BIOGRAPHY (upto 200 words)

Piyanuch Rakchue received a medical degree from Bangkok Metropolitan Administration Medical College and Vajira Hospital, Mahidol University. She received a diploma in neurology in 2020 from the Thai Board of Neurology and a certificate in clinical epidermology and statistics in 2022 from Chiang Mai University. And a certificate from the World Headache Society for headache and facial pain in 2022. She is presently receiving training as a sleep specialist at Siriraj Hospital, Mahidol University, Thailand.

In 2020, she was honored with the Surat Thani Provincial Health Office Award for research and oral presentation on Efficacy and Satisfaction Study of Patients Receiving Clinical Services in Surat Thani Hospital During the COVID-19 Situation by Medication Delivery Service Method, as well as the Medical Education Award for Outstanding Medical Teacher. Currently, she practices as a neurologist at Suratthani Hospital in Suratthani, Thailand.



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