

Acute Physiology and Chronic Health Evaluation (APACHE) II Score in Neurosurgical Intensive Care Unit Patient*Phuping Akavipat, M.D., FRCAT., M.Sc.**Prañee Kaewsingha, B.N.**Department of Anesthesiology, Prasat Neurological Institute, Bangkok 10400. Thailand*

Aim: There was no article reviewed about the performance of neurosurgical intensive care unit emphasized on the patient severity in Thailand. Therefore, this retrospective descriptive study was performed to acknowledge the neurosurgical intensive care patient severity followed APACHE II score and to predict mortality within Prasat Neurological Institute.

Method: All patients whom admitted to neurosurgical intensive care unit during February 1–July 31, 2011 were recruited into the study. The demographics and the parameters indicated APACHE II score were collected within 30 minutes after admission by the certified neurosurgical registrar nurses. The APACHE II risk of death equation, the adjusted predicted risk of death for each patient was calculated based on the patient's APACHE diagnosis, APACHE II score, and surgical status. The Glasgow outcome scale score were recorded at hospital discharge. The observed death rate was compared with the risk-adjusted death prediction for the study population. The descriptive statistics were analyzed.

Results: There were 276 patients admitted, 248 (89.86%) were elective cases. Two hundred and seventy-one (98.19%) were transfer from the operating theatre. Among survivors and non survivors, the APACHE II score were 16.56 ± 5.95 , 19.08 ± 6.47 while the predicted death rates were $13.57 \pm 12.88\%$, $13.39 \pm 12.85\%$ accordingly. The observed mortality was 4.35%.

Conclusion: The APACHE II score in neurosurgical intensive care unit patient, Prasat Neurological Institute was 16.67 ± 5.99 and the calculated predicted mortality was $13.57 \pm 12.88\%$ but the hospital-discharge mortality was lower. The further study should be indicated to set a standard of care milestone and accelerate performance improvements.

เสนอโดยนายภูพิงค์ เอกะวิภาต นายแพทย์ทรงคุณวุฒิ สถาบันประสาทวิทยา

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