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Title : INTERRATER AGREEMENT BETWEEN FOUR SCORE AND GCS IN ANALYZING CONSCIOUSNESS LEVEL

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Background

The changing of consciousness level is one of emergency indicator and deals with the prognosis which tends to the death. An accurate analysis will determine the accuracy of intervention. GCS is a consciousness level measuring tool which is often used with a verbal respond as one of the component. The analysis of consciousness level is still a problem because a group of patient cannot report verbally by them self so that it needs further interrater agreement measuring tool that is FOUR Score.

Objectives

The aim of the researh was to identify the interrater agreement between FOUR Score and GCS in analyzing consciousness level. The research is an analytical-observational research with cross-sectional approach in 30 respondents with purposive sampling in intensive care area of Hasan Sadikin Hospital Bandung. The data is analyzed using t-test differentiating test, Pearson correlation test and Kappa Test to measure the significance with $p < 0,05$.

Results

There is a significant difference between FOUR Score and GCS ($p < 0,05$); not only on the first scoring ($p = 0,002$) but also 24 hours after the first scoring ($p = 0,003$). There is a significant correlation ($p < 0,05$); not only on the first scoring ($p = 0,000$) but also 24 hours after the first scoring ($p = 0,000$). There is an interrater agreement ($p < 0,05$); not only on the first scoring ($k = 0,574$) but also 24 hours after the first scoring ($p = 0,692$).

Conclusions

FOUR Score and GCS are measuring tool which can be used in analyzing consciousness level with altered level of consciousness. FOUR Score has agreement with GCS. FOUR Score has advantage is able to analyze the brain stem reflex and respiratory of a group of patience which are not able to give the respond verbally. FOUR Score is a consciousness level measuring tool which is easy to used in area of intensive care because it has clear operational definition. FOUR Score can be used in patients intubated and detecting brain stem death.

Keyword: Full Outline of UnResponsiveness Score, Glasgow Coma Scale, altered consciousness