

## The Correlation of Leukocyte Count and Mini-Mental State Examination (MMSE) Score and Indonesian Version of Montreal Cognitive Assessment (MoCA-Ina) Score in Traumatic Brain Injury Patient

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### Abstract

The increasing prevalence of traumatic brain injuries can cause various complications, one of which is cognitive impairment. The cognitive impairment could result the inability to carry out normal daily activities and caused the dependence to others. This study aims to determine the correlation of leucocyte count on cognitive function in traumatic brain injury patients.

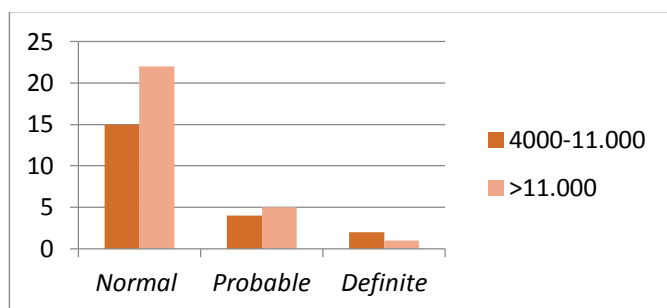
### Methods:

The analytical study with cross sectional method on traumatic brain injury patients who treated in the neurology ward of Zainoel Abidin hospital Banda Aceh chosen by consecutive sampling technique. The chi square test was used on bivariate analysis. The instrument of this study were the result of leucocyte count in laboratory and cognitive function questionnaires namely MMSE and MOCA-Ina.

### Results:

The data was collected from June 2019 to August 2019 in the neurology ward of Zainoel Abidin Hospital Banda Aceh. There were 49 respondents which is involved as the sample of this study.

### Correlation leucocyte count with MMSE Score



### Speaker References:

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### Biography:

Ika Marlia earned her bachelor's degree in Neurology Department from the Syiah Kuala University. and her subspecialty training in Child and Adolescent Psychiatry at the University of California at Davis. She is a board certified adult psychiatrist, and is a board eligible child and adolescent psychiatrist. She has written and published in multiple media formats including: newspaper, magazine, peer reviewed journal, and digital magazine. She is a contributing writer for the *Inpathy Bulletin* a popular wellness blog. She has also written multiple children's picture books that will be published in the near future.

[Joint event on Neuropsychiatry and Addiction](#); July 27-28, 2020.

### Abstract Citation:

Ika Marlia, The Correlation of Leukocyte Count and Mini-Mental State Examination (MMSE) Score and Indonesian Version of Montreal Cognitive Assessment (MoCA-Ina) Score in Traumatic Brain Injury Patient, NeuroPsychiatry-2020, Joint event on Neuropsychiatry and Addiction, July 27-28, 2020.