ANALYSIS OF CORRELATION BETWEEN BODY MASS INDEX (BMI) AND BRAIN WAVE USING EEG FOR ALPHA AND BETA WAVE

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ABSTRACT

The research is focusing on the correlation between the body mass index (BMI) and the brain wave pattern using EEG, concentrating on Alpha and Beta wave. Using BMI as reference, all 63 samples were given a questionnaire and categorized into underweight, ideal weight and overweight, before undergoing the EEG process. The brainwaves were captured using EEG; all data needed were recorded and then analyzed using SPSS software. It was observed that there are high correlations between BMI and brainwave pattern for overweight category as compared to the others. Generally, it can also be concluded that ideal weight student have more balance brainwave pattern hence, less stress than the others.

Keywords: BMI; EEG; Correlation.

TABLE OF CONTENT