THE EFFECT OF IMPLEMENTING 5E (ENGAGEMENT,
EXPLORATION, EXPLANATION, ELABORATION, EVALUATION)
ORIENTED LEARNING MODEL OF HUMAN NERVOUS SYSTEM
TOWARD STUDENT'S LEARNING OUTCOME FOR GRADE XI IN
SCIENCE PROGRAM SMA NEGERI 8 MEDAN
ACADEMIC YEAR 2014/2015

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ABSTRACT

This research aims to determine the effect of 5E (Engagement - Exploration –
outcomes on human nervous system concepts. This research was conducted in SMA
Negeri 8 Medan, academic year 2014/2015. The method used in this study is quasi-
experimental methods. The population in this research is all grade XI science students
SMAN 8 Medan with 5 (five) classes academic year 2014/2015. From the population
was taken 80 students as the sample by using random sampling. They are students of
class XI Science 3 (consist of 40 students) as an experimental class use 5E Learning
Model, while the students of class XI IPA 4 (consist of 40 students) as a control use
direct learning model. The early data be obtained from the average pretest that value
of 55.16 post-test from experimental class and control class 53.66. For posttest in
experiment class is 80.92 and control class is 74.33. After that tested by normality
test, homogeneity test and hypothesis test. Based on data from result of research used
test to obtain test is 3.88 and t-table at 5% significance level of 1.991. Because
t-test > t-table so the results of this research indicate that there are significant
difference toward learning outcome between experimental class use 5E Learning
Model and control class use direct learning model on human nervous system
concept.

Keywords: 5E Learning Model, Learning Outcomes.