

**THE EFFECT OF NHT (NUMBERED HEAD TOGETHER)  
COOPERATIVE LEARNING MODEL ON STUDENTS LEARNING  
ACTIVITY AND LEARNING OUTCOME FOR HUMAN SENSORY  
SYSTEM TOPIC FOR THE SECOND SEMESTER YEAR XI SCIENCE  
CLASS SMA NEGERI 1 MEDAN 2012/2013**

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**ABSTRACT**

This quasy experiment research aim to investegated the influence of NHT (Numbered Head Together) Cooperative Learning Model on the students learning outcome of biology on the main subject human sensory system which had been conducted in class XI IPA SMA Negeri 1 Medan academic year 2012/2013. This research implemented design “control class pretest-postest design”. The population of this research was all students in class XI IPA SMA Negeri 1 Berastagi totaling 488 students. The sample was taken by using random sampling and was obtained the sample for 27 students of experimental class (XI-IPA 1) and 27 students of control class (XI-IPA 2). The instrument of research was student’s achievements test in multiple choise form with 40 questions which had been validated before and also the observation sheet of students learning activity.

The result of data analysis showed that pretest in experimental class ( $47,59 \pm 8,73$ ) and pretest in control class ( $47,22 \pm 10,61$ ). After t test was carried out by using significance degree  $\alpha = 0,05$ , it was obtained that  $t_{obs} = 0,196 < t_{table} = 1,6762$ , so it can be known both experimental and control class had not significant difference of student’s beginning achievements. Then, postest in experimental class ( $91,39 \pm 4,51$ ) has significant different compare to postest in control class ( $82,87 \pm 5,31$ ). After carried out t test it was obtained that  $t_{obs} = 6,306 > t_{table} = 1,6762$ , so it can be known that student’s achievements of biology in experimental class higher than control class. For the students learning activity in experimental class at 1<sup>st</sup> meeting ( $71,96 \pm 10,09$ ) has significant different compare to students learning activity in control class ( $49,74 \pm 17,44$ ). After t test was carried out by using significance degree  $\alpha = 0,05$ , it was obtained that ( $t_{obs} = 5,694 > t_{table} = 1,6762$ , so it can be known the students learning activity of experimental class is higher than control class. For the students learning activity in experimental class at 2<sup>nd</sup> meeting ( $78,84 \pm 13,36$ ) has significant different compare to students learning activity in control class ( $50,26 \pm 17,88$ ). After carried out t test it was obtained that  $t_{obs} = 6,630 > t_{table} = 1,6762$ , so it can be known students learning activity of experimental class is higher than control class. The result of study imply success of teaching NHT (Numbered Head Together) Cooperative Learning Model on the topic human sensory system, so it needs to be considered to apply this model in teaching other subject matter, especially on subject matter which needs comprehension.