COMPARISON OF STUDENTS' LEARNING OUTCOMEAND ACTIVITYIN EXCRETORY SYSTEM TOPIC USING MAKE A MATCHAND WORD SQUAREMODEL FOR GRADE XI SMA SWASTAAL-ULUM ACADEMIC YEAR 2013/2014

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ABSTRACT

This quasy experiment research aims to investigate the comparison of student learning outcome and activity between make a match and word square model on the topic of excretory system. The population of this study was all of grade XI IPA students of SMA Swata AL-ULUM. The sample was taken by using cluster random sampling technique and was obtained the sample for 30 students of word square class(XI IPA 1) and 30 students of make a match class (XI IPA 2). The instruments used to obtain the data were observation sheet as non-test instrument and cognitive test in form of multiple choices as test instrument. The result of data analysis showed that pretest in word square class (48.06±16.32) and pretest in crossword puzzle class (47.95±16.67)The result of hypothesis test for posttest showed that $t_{count} = 5.31125 > t_{table} = 2.664$ at the level significance of 0.01, means that $H_a$was accepted and H_0 was rejected. It can be concluded that there is a big significant difference of student learning outcomebetween is taught by using Make a match and Word square model. Then, t-test of observation results showed that students' activity in both research classes is not significantly different. The students in word square class have the average percentage of 66% and in make a match 65% . The result of hypothesis test for student activity showed that $t_{count} = 0.320 < t_{table} = 2.664$ It means that there is no difference of student learning activity in both of classes. On the whole, outcome in learning human excretory system (kidney) subtopic that taught by word square model is higher than student learning outcome that taught by make a match in SMA Swasta AL-ULUM Medan academic year 2013/2014.

Keywords: *Word square Model, Make a Match Model, students' activity, learning outcome.*