

**THE EFFECT OF SAVI APPROACH ON STUDENTS ACTIVITY,  
LEARNING OUTCOME AND RETENTION IN HUMAN  
REGULATORY SYSTEM TOPIC FOR GRADE  
XI IPA SMAN 1 TEBING TINGGI  
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**ABSTRACT**

The objectives of this study are to find out: (1) the effect of SAVI approach on students' activity, (2) the effect of SAVI approach on students' learning outcome, and (3) the effect of SAVI approach on students' retention in human regulatory system topic. A quasi experimental research with post test only control group design was used in this study. The population of this study was all of grade XI IPA students of SMA Negeri 1 Tebing Tinggi. There were 2 classes chosen as the sample by applying cluster random sampling technique. Experimental class was taught by SAVI approach while control class was taught by traditional approach. 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 observation results showed that students' activity in both research classes is significantly different. The students in experiment class were more active than students in control class by the average percentage of 62.03% and 14.85% respectively. It means that SAVI approach gave an effect to students' activity. The test instrument data were analyzed by using t-test. The result of hypothesis test for the post test showed that  $t_{\text{count}} = 2.811 > t_{\text{table}} = 1.668$  at the level significance of 0.05, means that  $H_a$  was accepted and  $H_0$  was rejected. It can be concluded that there is an effect of SAVI approach on students' learning outcome. Learning outcome of students that taught with SAVI approach showed better results than students that taught with traditional approach. For post test II (retention), the result obtained  $t_{\text{count}} = 40.04 > t_{\text{table}} = 1.668$  at the level significance of 0.05, means that there is an effect of SAVI approach on students' retention. Students in experimental class can remember the material longer than students in control class. On the whole, SAVI approach gave good effect to students' activity, learning outcome and retention in human regulatory system topic for grade XI IPA SMAN 1 Tebing Tinggi academic year 2012/2013.

**Keywords:** SAVI approach, students' activity, learning outcome, retention.