ABSTRACT

NEVI DWI JAYANTI, 2025 *The Effect of Learning Cycle 9E Model on Science Literacy and Student Learning Outcomes in Biology Learning (Experimental Study in Class XI MIPA SMAN 1 Cihaurbeuti Academic Year 2024/2025)* Thesis, Department of Biology Education. Faculty of Teacher Training and Education. Siliwangi University.

This study aims to determine the effect of the learning cycle 9E model on the science literacy and learning outcomes of students on the material of the excretory system in class XI SMAN 1 Cihaurbeuti in the 2024/2025 academic year. The method used in this research is quasi experiment. The population in this study were all XI MIPA classes of SMAN 1 Cihaurbeuti consisting of 7 classes totaling 247 students. The sample in this study was taken using purposive sampling technique so that two classes were obtained as samples, namely XI MIPA 7 class of 36 students as the experimental class and XI MIPA 6 class of 35 students as the control class. The instrument used in this study was a compound choice of 25 questions for science literacy and 27 questions for learning outcomes on excretory system material that had been validated. Data analysis techniques begin with normality and homogeneity tests as prerequisites, then proceed with hypothesis analysis using ANCOVA. Based on the results of data analysis and hypothesis testing, it shows that the significance value for science literacy is 0.001 and learning outcomes is 0.003 or the significance value <0.05 means reject H0, so it can be concluded that there is an effect positive of the learning cycle 9E model on science literacy and student learning outcomes.

Keywords: Learning Cycle 9E, science literacy, learning outcomes.