

ABSTRAK

Poppy Andra Widya, NIM 4193341017 (2025). Pengaruh Model Pembelajaran Project Based Learning (PJBL) Terhadap Hasil Belajar Siswa Pada Materi Sistem Peredaran Darah Di Kelas XI SMA Negeri 1 Barumun Selatan Kabupaten Padang Lawas.

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran Project Based Learning terhadap hasil belajar siswa pada materi sistem peredaran Darah di kelas XI IPA di SMA Negeri 1 Barumun Selatan. Desain penelitian yang digunakan adalah *pretest-posttest control group design*. Pengambilan sampel diambil secara purposive sampling. Penelitian ini menggunakan 1 kelas eksperimen dan 1 kelas kontrol. Setelah diberikan perlakuan, kelas eksperimen dan kelas kontrol akan diberikan *posttest* untuk mengetahui hasil belajar pascaperlakuan. Teknik analisis data yang digunakan pada penelitian ini terdiri dari uji prasyarat dan uji hipotesis. Uji prasyarat dilakukan dengan menggunakan uji normalitas Shapiro-Wilk dan uji homogenitas Levene. Pada penelitian ini didapatkan hasil rata-rata nilai *pretest* kelas eksperimen adalah 47,92 dan kelas kontrol adalah 46,91. Nilai *posttest* yang diperoleh dari kelas eksperimen (80,00) lebih tinggi dibandingkan pada kelas kontrol (75,00). Rata-rata nilai *pretest* dan *posttest* kelas eksperimen dan kontrol dilakukan uji normalitas Shapiro-Wilk dan uji homogenitas Levene. Uji normalitas diperoleh hasil dengan *pretest* 0,398 dan nilai *posttest* 0,322. Berdasarkan hal tersebut, dapat dikatakan rata-rata nilai *pretest* dan *posttest* kelas eksperimen dan kontrol berdistribusi normal. Uji homogenitas diperoleh nilai *pretest* 0,340 dan nilai *posttest* 0,278, dimana pada perhitungan uji-t pada data nilai *posttest* diperoleh $0,003 < 0,05$ dimana hal ini menunjukkan bahwasanya model pembelajaran Project Based Learning memberikan pengaruh terhadap hasil belajar.

Kata Kunci: PJBL, Barumun Padang Lawas, Sistem Peredaran Darah



ABSTRACT

Poppy Andra Widya, NIM 4193341017 (2025) The Influence of The Project Based Learning Model on Student Learning Outcomes in Circulatory System Material in Class XI at SMA Negeri 1 Barumun Selatan.

This study aims to determine the effect of applying the Project Based Learning model to student learning outcomes in circulatory system material in class XI IPA at SMA Negeri 1 Barumun Selatan. The research design used was a *pretest-posttest* control group design. Sampling was taken by purposive sampling. This study used 1 experimental class and 1 control class. After being given treatment, the experimental class and control class will be given a *post-test* to find out the post-treatment learning outcomes. The data analysis technique used in this study consisted of prerequisite testing and hypothesis testing. The prerequisite test was carried out using the Shapiro-Wilk normality test and the Levene homogeneity test. In this study, the average pretest score for the experimental class was 47.92 and that for the control class was 46.91. The post-test scores obtained from the experimental class (80.00) were higher than those in the control class (75.00). The average pre-test and post-test values for the experimental and control classes were carried out by the Shapiro-Wilk normality test and Levene's homogeneity test. The normality test obtained results with sig. >0.05 . Based on these, it can be said that the average pretest and posttest values of the experimental and control classes are normally distributed. Normality test pretest 0,398 posttest 0,322, Homogeneity test obtained sig. the pretest value is 0.340 and the posttest value is 0.278, where in the calculation of the t-test on the post-test value data, a sig 2-tailed value is obtained on the post-test data $0.003 < 0.05$ which shows that the Project Based Learning learning model has an influence on learning outcomes.

Keywords: PjBL, Barumun Padang Lawas, Circulatory System

