ABSTRAK

Fakhri Atallah Tresna Irawan: Penerapan Model Pembelajaran *Discovery Learning* Berbantu Media *Edpuzzle* Terhadap Peningkatan Hasil Belajar Kognitif Siswa Pada Materi Sistem Pernapasan.

Berdasarkan studi yang dilakukan di salah satu MA di kota Bandung, diperoleh informasi bahwa dalam pembelajaran biologi masih minim penggunaan media pembelajaran, serta penerapan model yang belum optimal. Penelitian ini bertujuan untuk mengidentifikasi keterlaksanaan pembelajaran, menganalisis peningkatan hasil belajar kognitif, dan menganalisis respon siswa terhadap model *Discovery Learning* berbantu *Edpuzzle* pada materi sistem pernapasan. Metode penelitian yang digunakan adalah *Pre-experimental* dengan desain *one group pre-test post-test*. Instrumen penelitian yang digunakan pada penelitian ini berupa soal kognitif, lembar observasi guru dan siswa, dan lembar angket respon siswa. Hasil penelitian ini yaitu keterlaksanaan aktivitas guru sebesar 91% dan keterlaksanaan aktivitas siswa sebesar 89% dengan kategori sangat baik. Peningkatan hasil belajar siswa menggunakan model *Discovery Learning* berbantu *Edpuzzle* memperoleh nilai rata-rata *pretest* sebesar 55 dan *posttest* 81 dengan nilai *N-Gain* sebesar 0,61% dengan kategori sedang. Nilai *N-Gain* per indikator tertinggi yaitu C1 dengan skor 0,86% sedangkan yang terendah pada indikator C5 dan C6 dengan skor 0,49%. Hasil perhitungan Respon siswa terhadap pembelajaran menggunakan model *Discovery Learning* berbantu *Edpuzzle* memperoleh nilai 80% dengan kategori sangat baik. Berdasarkan analisis hasil penelitian maka dapat disimpulkan bahwa terdapat peningkatan model *Discovery Learning* berbantu *Edpuzzle* terhadap hasil belajar kognitif siswa pada materi sistem pernapasan.

Kata Kunci: *Discovery Learning, Edpuzzle, Hasil Belajar Kognitif, Sistem Pernapasan.*

ABSTRACK

Fakhri Atallah Tresna Irawan: *Application of the Discovery Learning Learning Model Assisted by Edpuzzle Media to Improve Students' Cognitive Learning Outcomes in Respiratory System Materials.*

Based on a study conducted at one of the MAs in the city of Bandung, information was obtained that in biology learning there is still minimal use of learning media, as well as the application of models that are not optimal. This study aims to identify the implementation of learning, analyze the improvement of cognitive learning outcomes, and analyze students' responses to the Edpuzzle-assisted Discovery Learning model on respiratory system materials. The research method used is Pre-experimental with a one-group pre-test post-test design. The research instruments used in this study are cognitive questions, teacher and student observation sheets, and student response questionnaires. The results of this study are the implementation of teacher activities by 91% and the implementation of student activities by 89% with the category of very good. The improvement of student learning outcomes using the Discovery Learning model assisted by Edpuzzle obtained an average pretest score of 55 and posttest 81 with an N-Gain value of 0.61% with the medium category. The highest N-Gain value per indicator is C1 with a score of 0.86% while the lowest is in the C5 and C6 indicators with a score of 0.49%. The results of the calculation of student responses to learning using the Discovery Learning model assisted by Edpuzzle obtained a score of 80% with the category of very good. Based on the results of the study, data was obtained that there was a positive increase from the Discovery Learning model assisted by Edpuzzle on students' cognitive learning outcomes in respiratory system material.

Keywords: *Discovery Learning, Edpuzzle, Cognitive Learning Outcomes, Respiratory System.*