

ABSTRAK

Dandi Sembiring, NIM 4181141033 (2018). Pengembangan Multimedia Interaktif Berbasis Website Pada Materi Sistem Pernapasan Untuk Meningkatkan Kemampuan Literasi Sains Siswa Kelas XI SMA Swasta Katolik 1 Kabanjahe T.P 2022/2023.

Penelitian ini bertujuan untuk menghasilkan Multimedia Interaktif pada materi sistem pernapasan kelas XI SMA Swasta Katolik 1 Kabanjahe T.P 2022/2023. Multimedia Interaktif dikembangkan dengan model ADDIE. Instrumen yang digunakan dalam penelitian ini terdiri dari angket kelayakan materi, angket kelayakan media, penilaian guru, respon siswa, dan soal *pretest* dan *posttest*. Hasil penelitian memperoleh data kelayakan materi pada rata-rata 85,88% dengan kategori sangat layak, kelayakan media mendapatkan rata-rata 89,3% dengan kategori sangat layak, hasil penilaian guru mendapatkan rata-rata 93% dengan kategori sangat layak, hasil respon siswa mendapatkan rata-rata 92,5% dengan kategori sangat layak, hasil *pretest* dan *posttest* siswa mengalami peningkatan dengan skor *n-gain* 0,6 dengan kategori sedang. Berdasarkan hasil tersebut multimedia interaktif berbasis *website* pada materi sistem pernapasan ini sangat layak dan efektif digunakan sebagai media pembelajaran biologi.

Kata kunci: Pengembangan Multimedia Interaktif, ADDIE, Sistem pernapasan.

ABSTRACT

Dandi Sembiring, NIM 4181141033 (2018). Development of *Website-Based Interactive Multimedia on Respiratory System Material to Improve Scientific Literacy Skills of Class XI Students of SMA Catholic 1 Kabanjahe T.P 2022/2023.*

This study aims to produce Interactive Multimedia on respiratory system material for class XI SMA 1 Kabanjahe Catholic T.P 2022/2023. What is appropriate to use is based on the validation results of media experts, material experts, teacher assessments and student responses. Interactive Multimedia is developed with the ADDIE model. The instruments used in this study consisted of a material feasibility questionnaire, a media feasibility questionnaire, teacher assessment, student responses, and pretest and posttest questions. The results of the study obtained data on the feasibility of the material on average 85,88% with the very feasible category, the media feasibility got on average 89,3% With the very feasible category, the teacher's assessment results get an average 93% with a very feasible category, the results of student responses get an average 92,5% with a very feasible category, students' pretest and posttest results increase with n-gain scores 0,6 with the medium category . Based on these results, *website*-based interactive multimedia on respiratory system material is very feasible and effective as a biology learning medium.

Keywords: Development of Interactive Multimedia, ADDIE, Respiratory system.