

ABSTRAK

AYU TRI WARDANI. Pengembangan Media Pembelajaran *Biology Magazine* (BIOMAGZ) Sistem Imun Untuk Meningkatkan Kemampuan Berpikir Analisis Siswa. Di bawah Bimbingan SRI RAHAYU, NURMASARI SARTONO.

Pembelajaran pada kurikulum 2013 menitikberatkan pembelajaran berpusat pada siswa (*student center*), menuntut siswa untuk berpikir tingkat tinggi, terutama aktif dalam proses pemecahan masalah. Tujuan penelitian ini adalah mengembangkan media pembelajaran *biology magazine* (BIOMAGZ) sistem imun berbasis *problem based learning* (PBL) untuk meningkatkan Kemampuan berpikir analisis siswa. Metode penelitian yang digunakan adalah *Research and Development* (RND). Prosedur penelitian ini memiliki beberapa tahap, yaitu penelitian pendauluan, perencanaan, pengembangan produk, validasi produk, revisi produk, uji coba produk, penyempurnaan produk, serta uji efektivitas produk. Penelitian dilaksanakan di SMA Negeri 5 Depok pada bulan April hingga Mei 2019. Subjek penelitian meliputi ahli materi, ahli media, 10 peserta didik kelompok kecil, 30 peserta didik kelompok besar, dan guru biologi. Analisis data menggunakan uji normalitas Kolmogorov Smirnov, uji homogenitas dengan uji Fisher, dan uji statistik menggunakan *Paired Sample t test*. Hasil penelitian menunjukkan bahwa *biology magazine* (BIOMAGZ) sistem imun berbasis *problem based learning* mendapatkan penilaian kelayakan media dengan skor rata-rata 84,3%. Rata-rata skor *pre test* dan *post test* adalah 47,00 dan 66,29. Kesimpulan penelitian ini menunjukkan bahwa *biology magazine* (BIOMAGZ) sistem imun layak digunakan sebagai media pembelajaran dan dapat memberikan peningkatan terhadap kemampuan berpikir analisis peserta didik pada materi sistem imun.

Kata Kunci: Berpikir Analisis, *Biology Magazine*, *Problem Based Learning*, R&D.

ABSTRACT

AYU TRI WARDANI. Development Media Learning of Biology Magazine (BIOMAGZ) Immune System to Improve Student Analysis Thinking Skills. Under Guidance of SRI RAHAYU, NURMASARI SARTONO.

The 2013th learning curriculum emphasizes the learning process to the student (student center), requires the student being able to have higher order thinking skills (HOTS), innovative in the learning process. The aim of this research is developing the biology magazine (BIOMAGZ), a learning media for learning immune system based on problem based learning model. This media is used for improve student's analytical thinking. Research and Development method has been used for this research. This method has the some procedures. Begins from the preliminary research, planning, product developing, and also product effectively determination. The research was conducted in SMA Negeri 5 Depok on April until May 2019. The research subject involved a material expert, a media expert, 10th small group students, 10th large group students, and biology teachers. Data analysis using the Kolmogorov Smirnov normality test, homogeneity test with Fisher's test, and statistical tests using Paired Sample t Test. The results showed that the problem based learning biology magazine (BIOMAGZ) immune system based on the media obtained an assessment of the feasibility of the media with an average score of 84.3% The average pre test and post test score were 47,00 and 66,29. The result shows that biology magazine (BIOMAGZ) immune system worth to use as a learning media and being able to give the impacts for student's analytical thinking skills on immune system.

Keyword : Analytical thinking, Biology magazine, Problem based learning, R&D.