ABSTRAK
PENGEMBANGAN MEDIA PEMBELAJARAN IPA SD MATERI
RANGKA ALAT GERAK MANUSIA BERBASIS METODE
MONTESSORI

Intan Tri Hapsari
Universitas Sanata Dharma
2020

Latar belakang penelitian ini adalah kebutuhan akan media pembelajaran konkret materi rangka alat gerak manusia di sekolah. Tujuan dari penelitian ini adalah 1) mendeskripsikan prosedur pengembangan media pembelajaran rangka alat gerak manusia berbasis metode Montessori, dan 2) mengetahui kualitas media pembelajaran rangka alat gerak manusia berbasis metode Montessori.

Jenis penelitian yang digunakan adalah penelitian dan pengembangan (R&D). Model pengembangan yang digunakan yaitu model yang dipaparkan oleh Borg dan Gall (dalam Sugiyono, 2015), yang peneliti batasi sampai langkah uji coba produk. Subyek penelitian ini adalah sepuluh siswa kelas V SD N Puren Yogyakarta tahun ajaran 2018/ 2019. Obyek dalam penelitian ini adalah media pembelajaran IPA berupa replika rangka alat gerak manusia berbasis metode Montessori. Instrumen penelitian yang digunakan adalah pedoman observasi, pedoman wawancara, kuesioner analisis kebutuhan dan kuesioner uji validitas produk, dan soal tes. Teknik analisis data yang digunakan adalah analisis data kuantitatif dan kualitatif.

Hasil penelitian menunjukkan bahwa prosedur pengembangan media pembelajaran rangka alat gerak manusia berbasis metode Montessori terdapat enam langkah yaitu potensi dan masalah, pengumpulan data, desain produk, validasi produk, revisi produk, dan uji coba produk. Uji Validitas produk menunjukkan bahwa kualitas media pembelajaran sangat baik. Perolehan rerata skor sebesar 3,77 dengan kategori sangat baik. Hal ini didukung oleh hasil belajar siswa melalui nilai *pretest* dan *posttest* yang menunjukkan bahwa siswa sangat memahami materi pembelajaran yang diajarkan, hasil rerata *pretest* siswa sebesar 61 dan rerata *posttest* sebesar 94 dengan peningkatan sebesar 33 atau 54,09%. Oleh sebab itu, dapat disimpulkan bahwa media pembelajaran rangka alat gerak manusia memiliki kualitas sangat baik dan dapat membantu siswa dalam memahami materi rangka alat gerak manusia.

Kata kunci: penelitian dan pengembangan, media pembelajaran berbasis metode Montessori, IPA, dan rangka alat gerak manusia.

ABSTRACT
THE DEVELOPMENT OF MEDIA LEARNING NATURAL SCIENCES
PRIMARY SCHOOL MATERIALS HUMAN SKELETAL MOVEMENT
BASED ON MONTESSORI METHOD

Intan Tri Hapsari
Sanata Dharma University
2020

The background of this research is the need of concrete learning media of human skeletal movement material at school. The purposes of this study is 1) to describe the procedure for developing media learning for human skeletal movement based on the Montessori method, and 2) to know the quality of learning media for human skeletal movement based on the Montessori method.

*The type of research used is Research and Development (*R&D*). The development model used is the model presented by Borg and Gall (in Sugiyono, 2015), which researcher limit to the product trial step. The subjects of this study were ten fifth grade students of Puren Yogyakarta Elementary School in 2018/2019 school year. The object of this research is the science learning media the framework of human motion based on the Montessori method. The research instruments used were observation guidelines, interview guidelines, needs analysis questionnaire and product validity test questionnaire, and test questions. The data analysis technique used is quantitative and qualitative data analysis.*

The results of this research showed that the procedure for developing a learning media for human skeletal movement tools based on the Montessori method consisted of six steps namely potential and problems, data collection, product design, product validation, product revision, and product trials. Product validation shows the quality of instructional media is very good. Acquisition of the mean score of 3.77 by category very good. This is supported by student learning outcomes through the pretest and posttest score which shows that students really understand the learning material being taught, the average pretest score of students is 61 and the posttest average is 94 with an increase 33 or 54,09%. Therefore, it can be concluded that the media learning of human skeletal movement tools have very good quality and can help students in understanding the material of human skeletal movement tools.

Keywords: research and development, media learning based Montessori method, natural science, and human skeletal movement.