

ABSTRAK**PENGEMBANGAN MEDIA PEMBELAJARAN IPA SD
MATERI SISTEM PENCERNAAN HEWAN RUMINANSIA
BERBASIS METODE MONTESSORI**

Weniy Iman Nurjayanti
Universitas Sanata Dharma
2020

Latar belakang penelitian adalah kebutuhan media pembelajaran yang konkret pada materi sistem pencernaan hewan ruminansia. Tujuan dari penelitian ini adalah (1) mendeskripsikan prosedur pengembangan media pembelajaran sistem pencernaan hewan ruminansia berbasis metode Montessori, (2) Mengetahui kualitas pembelajaran sistem pencernaan hewan ruminansia berbasis metode Montessori.

Jenis penelitian ini adalah penelitian dan pengembangan (R&D). Model pengembangan yang digunakan yaitu model yang dipaparkan oleh Borg dan Gall (dalam Sugiyono, 2016) yang peneliti batasi sampai langkah uji coba produk. Subjek penelitian ini adalah sepuluh siswa SD Negeri Puren Yogyakarta tahun ajaran 2018/2019. Objek dari penelitian ini adalah media pembelajaran berbasis metode Montessori. Instrumen yang digunakan dalam penelitian ini adalah pedoman observasi, pedoman wawancara, kuesioner dan soal tes. Teknik analisis data yang digunakan adalah kuantitatif dan kualitatif.

Hasil penelitian ini menunjukkan bahwa (1) prosedur pengembangan media pembelajaran sistem pencernaan hewan ruminansia berbasis metode Montessori terdapat enam langkah yaitu potensi dan masalah, pengumpulan data, desain produk, validasi produk, revisi produk dan uji coba produk, (2) kualitas media pembelajaran sistem pencernaan hewan ruminansia berbasis metode Montessori yaitu sangat baik. Perolehan skor rerata validasi produk oleh para ahli sebesar 3,78 masuk dalam kategori sangat baik. Hal ini didukung oleh hasil uji coba produk pada siswa menunjukkan nilai rerata *pretest* sebesar 52 dan nilai rerata *posttest* sebesar 93 dengan selisih rerata sebesar 41 atau 78,8 %. Dengan demikian, dapat disimpulkan bahwa media pembelajaran sistem pencernaan hewan ruminansia memiliki kualitas sangat baik dan dapat membantu siswa dalam memahami materi sistem pencernaan hewan ruminansia.

Kata Kunci: Penelitian dan pengembangan, media pembelajaran berbasis metode Montessori, IPA, dan sistem pencernaan hewan ruminansia.

ABSTRACT**DEVELOPMENT OF ELEMENTARY SCHOOL SCIENCE STUDY
LEARNING MEDIA OF RUMINANT ANIMAL DIGESTION SYSTEM
MATERIAL BASED ON MONTESSORI METHOD**

Weniy Iman Nurjayanti
Sanata Dharma University
2020

The background of this research is the need for concrete learning media on the material of the ruminant animal digestion system. The purpose of this research were (1) to describe the development procedure of media to study the digestion system of ruminant animals based on the Montessori method, (2) to know the quality of learning media for the digestion system of ruminant animals 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, 2016), which researcher limit to the product trial step. The subject of this study were ten fifth grade students of Puren National Elementary School Yogyakarta in 2018/2019 school year. The object of this research is a learning media based on the Montessori Method. The instruments used in this study were observation guidelines, interview guidelines, questionnaires and test questions. The data analysis technique that used were quantitative and qualitative.

The results of this research showed that (1) the procedure for developing a learning media system for ruminant animal digestion based on the Montessori method consists of six steps namely potential and problems, data collection, product design, product validation, product revision, and experimental products, (2) the quality of learning media for the digestion system of ruminant animals based on the Montessori method was very good. The average score of product validation by experts was 3.78 in the very good category. This is supported by the results of product trials on students showing the average pretest score of 52 and the average posttest score of 93 with an average difference of 41 or 78.8%. Therefore, it can be concluded that the learning media of ruminant animal digestion system has very good quality and can help students in understanding the material of ruminant animal digestion system.

Keywords: *Research and Development, learning media based Montessori Method, natural science, and ruminant animal digestion system.*