

ABSTRAK**PENGEMBANGAN MEDIA PEMBELAJARAN KONVENSIONAL ULAR TANGGA DAN 3D URINE FORMATION PROPS PADA MATERI SISTEM EKSRESI SMA KELAS XI**

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Survei kebutuhan media pembelajaran konvensional ular tangga dan 3D Urine Formation Props dilakukan di empat sekolah. Survei kebutuhan dilakukan dengan metode wawancara untuk analisis kebutuhan.

Penelitian ini menggunakan metode Penelitian dan Pengembangan (R& D) yaitu metode yang digunakan untuk menghasilkan produk tertentu yang akan diuji kualitas dan kelayakannya. Dalam pengembangan produk berupa media pembelajaran konvensional ular tangga dan 3D *Urine Formation Props* mengikuti tahap pengembangan yang dikemukakan oleh Borg and Gall yaitu tahap pengumpulan informasi, perencanaan, pengembangan produk awal, uji validasi produk awal, revisi produk. Pengembangan media pembelajaran konvensional ular tangga dan 3D Urine Information Props hanya sampai tahap revisi produk.

Hasil penelitian menunjukkan bahwa produk yang dikembangkan berupa media ular tangga dan 3D *Urine Formation Props* pada materi sistem ekskresi SMA kelas XI layak digunakan. Perolehan rerata validasi data rekapitulasi oleh dua ahli media pembelajaran dan dua guru biologi adalah 4,34 dengan kriteria “sangat baik“ untuk media ular tangga dan 4,18 dengan kriteri “baik“ untuk media 3D *Urine Formation Props*. Berdasarkan hasil penelitian produk media pembelajaran konvensional ular tangga dan 3D *Urine Formation Props* materi sistem ekskresi SMA kelas XI layak digunakan untuk media pembelajaran dengan revisi dan saran dari para ahli.

Kata kunci: R & D, Media Ular Tangga, media 3D *Urine Formation Props*, Sistem Ekskresi, Kelas XI

ABSTRACT

THE DEVELOPMENT OF SNAKE AND LADDERS CONVENTIONAL LEARNING MEDIA AND 3D URINE FORMATION PROPS IN THE EXCRETION SYSTEM MATERIALS OF XI SENIOR HIGH SCHOOL

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The survey on the needs of conventional learning media for snakes and ladders and 3D Urine Formation Props was conducted in four schools. The needs survey was conducted using the interview method for needs analysis.

This study uses the Research and Development (R&D) method, which is a method used to produce certain products that will be tested for quality and feasibility. In product development in the form of conventional snake and ladder learning media and 3D Urine Formation Props followed by the development stage proposed by Borg and Gall, namely the stages of information gathering, planning, initial product development, initial product validation testing, product revision.

The results showed that the product developed in the form of snake and ladder media and 3D Urine Formation Props on the excretion system material for class XI SMA was feasible to use. The mean of data validation data recapitulation by two instructional media experts and two biology teachers was 4,34 with "very good" criteria for snake and ladder media and 4,18 with "good" criteria for 3D Urine Formation Props media. Based on the results of product research for media of snake and ladders and 3D Urine Formation Props media, the excretion system of class XI SMA is suitable for learning media with revisions and suggestions from experts.

Keywords: Research and Development, Snake and Ladder Media, 3D Urine Formation Props, Excretory System, XI Grade