

ABSTRAK**PENGEMBANGAN MEDIA PEMBELAJARAN BERBASIS *WEB GOOGLE SITES* PADA MATERI SISTEM EKSRESI MANUSIA KELAS XI**

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Masa pandemi covid-19 menyebabkan pembelajaran dilakukan secara daring. Berdasarkan analisis kebutuhan dengan guru biologi di lima sekolah menengah atas menunjukkan adanya permasalahan dalam pembelajaran daring. Permasalahan tersebut adalah guru kesulitan dalam memilih dan menggunakan media pembelajaran dan peserta didik kurang tertarik mengikuti proses pembelajaran sehingga kesulitan belajar secara mandiri dalam memahami materi sistem ekskresi manusia kelas XI. Penelitian ini bertujuan untuk mengetahui desain dan kelayakan produk.

Jenis penelitian yang digunakan adalah *research and development* menurut *Borg and gall* dalam Sugiyono. Penelitian menggunakan 5 langkah dari 10 langkah penelitian yaitu potensi dan masalah, pengumpulan data, desain produk, validasi dan revisi desain. Validasi dilakukan oleh ahli materi, ahli media dan guru mata pelajaran biologi SMA. Analisis data yang dilakukan secara kualitatif dan kuantitatif.

Produk yang dikembangkan yaitu *web google sites* yang dapat digunakan diperangkat *laptop* atau *smarphone*. Hasil validasi produk dari empat validator sebesar 90,9% dengan kriteria sangat baik. Produk yang dikembangkan layak digunakan secara terbatas sesuai masukan dari para validator.

Kata kunci: *web, google sites, sistem ekskresi manusia, research and development (RnD)*

ABSTRACT

DEVELOPMENT OF WEB-BASED LEARNING MEDIA GOOGLE SITES ON THE XI CLASS HUMAN EXCRETORY SYSTEM

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The covid-19 pandemic causes learning to be done online. Based on a needs analysis with biology teachers in five senior high schools it shown that there are problems in distance learning. The problem is that the teacher has difficulty in choosing and using learning media, students are less interested in participating in the learning process so that it is difficult to learn independently in understanding the material of the XI class human excretory system. This study aims to determine the design and feasibility of the product.

The type of research used is research and development according to Borg and gall by Sugiyono. The research used 5 steps out of 10 research steps, namely potential and problems, data collection, product design, validation and design revision. Validation was carried out by material experts, media experts and high school biology subject teachers. Data analysis was carried out qualitatively and quantitatively.

The product being developed is web google sites that can be used on laptop or smartphone devices. The product validation results from the four validators are 90.9% with very good criteria. The product developed is suitable for limited use according to sugestion from the validators.

Keywords: *web, google sites, human excretory system, research and development (RnD)*