

ABSTRAK**PENGEMBANGAN BUKU PANDUAN PEMBUATAN HAND SANITIZER
ALAMI BERBASIS METODE MONTESSORI DI MASA PANDEMI
COVID-19 UNTUK SISWA KELAS BAWAH**

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Penelitian ini dilatar belakangi oleh kurangnya referensi buku panduan dalam memberikan pembelajaran mengenai protokol kesehatan Covid-19 yaitu pembuatan salah satu produk kesehatan berupa *hand sanitizer* alami di masa pandemi Covid-19. Penelitian ini bertujuan untuk (1) mendeskripsikan prosedur pengembangan buku panduan pembuatan *hand sanitizer* alami berbasis metode Montessori di masa pandemi Covid-19 untuk siswa kelas bawah (2) mengetahui kualitas buku panduan pembuatan *hand sanitizer* alami berbasis metode Montessori di masa pandemi Covid-19 untuk siswa kelas bawah.

Penelitian ini berjenis penelitian dan pengembangan (*R&D*). Prosedur pengembangan yang digunakan dalam penelitian ini adalah model ADDIE. Penjabaran dari model ADDIE adalah: (1) *Analyze*, (2) *Design*, (3) *Development*, (4) *Implementation* (5) *Evaluation*. Hasil penelitian menunjukkan bahwa produk yang dikembangkan berdasarkan ciri-ciri Montessori yaitu menarik, bergradasi, *auto-education*, *auto-correction*, dan kontekstual. Kegiatan *practical life* dalam buku panduan dapat meningkatkan kemandirian siswa yaitu siswa mendapat keterampilan memilih alat dan bahan *hand sanitizer* alami, keterampilan menggunakan gunting, pisau, dan sendok, keterampilan mencampurkan bahan dan keterampilan menggunakan *hand sanitizer*. Buku panduan pembuatan *hand sanitizer* alami telah divalidasi oleh Ahli Montessori, Ahli bahasa dan Guru kelas II. Validasi memperoleh skor rata-rata 3,36 (dari rentang nilai 1-4), skor tersebut masuk dalam kategori “sangat baik” sehingga layak diujicobakan setelah mendapat perbaikan. Implementasi dilakukan kepada 5 siswa kelas II SD dengan hasil menunjukkan bahwa 100% siswa merasa senang menggunakan buku panduan, 100% siswa merasa terbantu dalam membuat *hand sanitizer* dengan mudah di masa pandemi Covid-19, dan 100% siswa paham mengenai langkah-langkah dalam pembuatan *hand sanitizer* alami. Buku panduan pembuatan *hand sanitizer* alami ini dapat digunakan oleh guru sebagai bahan ajar dan juga siswa sebagai media belajar mandiri.

Kata kunci: penelitian dan pengembangan, buku panduan pembuatan *hand sanitizer* alami, metode Montessori, *practical life*.

ABSTRACT**DEVELOPMENT OF A NATURAL HAND SANITIZER GUIDEBOOK
BASED ON THE MONTESSORY METHOD DURING THE COVID-19
PANDEMIC FOR LOWER CLASS STUDENTS**

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This research was motivated by the lack of reference manual in providing learning about the covid-19 health protocol, namely the manufacture of one of the health products in the form of a natural hand sanitizer during the covid-19 pandemic. This study aims to (1) describe the procedure for developing a manual for making natural hand sanitizers based on the Montessori method during the covid-19 pandemic for lower grade students (2) knowing the quality of the manual for making natural hand sanitizers based on the Montessori method during the covid-19 pandemic for lower class students.

This research used research and development (R&D) as the methodology. And the researcher used ADDIE type as the development procedure model. ADDIE stands for: (1) Analyze, (2) Design, (3) Development, (4) Implementation (5) Evaluation. The result showed that product developed based on the characteristics of Montessori, which is interesting graded, auto-education, auto-correction, and contextual. Practical life activities in the guidebook can increase student independence, namely students gain skill in choosing natural hand sanitizer tools and materials, skill in using scissors, knives, and spoons, skill in mixing materials and skill in using hand sanitizer. The manual for making natural hand sanitizers has been validated by Montessori Experts, Linguists and Class II teachers. Validation obtained an average score of 3.36 (from a range of values 1-4), the score was included in the "very good" category so it was worth testing after getting improvements. The implementation was carried out to 5 second grade elementary school students with the results showing that 100% of students felt happy using the guidebook, 100% of students felt it was helpful to make hand sanitizers easily during the covid-19 pandemic, and 100% of students understood the steps for making natural hand sanitizers. This manual for making natural hand sanitizers can be used by teachers as teaching materials and also by students as independent learning media.

Keywords: *research and development, manual for making hand sanitizer natural, Montessori method, Practical life.*