

## ABSTRAK

**Aditya Bagas Prayoga**, 2019. “Pengembangan Media Pembelajaran Anatomi Fisiologi Sistem Respirasi Berbasis Android Pada Mahasiswa PMIK Poltekkes Kemenkes Malang”. **Dibimbing oleh Achmad Zani Pitoyo, M.Kes., MMRS.**

Anatomi fisiologi sistem respirasi merupakan salah satu materi penunjang dalam mata kuliah Klasifikasi dan Kodefikasi Penyakit, Masalah-masalah yang Berkaitan dengan Kesehatan dan Tindakan Medis (KKPMT) di Prodi D-III Perekam Medis dan Informasi Kesehatan. Permasalahan berdasarkan hasil wawancara kepada mahasiswa, didapatkan informasi mahasiswa kurang memahami materi anatomi fisiologi sistem respirasi. Untuk menangani permasalahan tersebut, peneliti berinovasi untuk penyampaian materi dengan media pembelajaran *mobile learning* berbasis *android*. Penelitian ini bertujuan untuk mengembangkan aplikasi *Respiro-Smart* dengan materi anatomi fisiologi sistem respirasi berbasis *android* untuk mahasiswa D-III Perekam Medis dan Informasi Kesehatan Poltekkes Kemenkes Malang. Penelitian ini merupakan penelitian pengembangan atau *Research and Develpoment* (R&D) yang menggunakan model pengembangan ADDIE. Validasi dilakukan oleh ahli materi dan ahli media. Media yang dikembangkan diujicobakan kepada 52 mahasiswa D-III Perekam Medis dan Informasi Kesehatan kelas I C. Hasil penelitian ini diperoleh: Terciptanya produk aplikasi pengembangan media pembelajaran anatomi fisiologi sistem respirasi menggunakan *mobile learning* berbasis *android* pada mahasiswa PMIK Poltekkes Kemenkes Malang. Hasil pengujian validasi ahli: Nilai Validasi Ahli Materi sebesar 81% berada pada rentang 76%-100% sehingga masuk kategori “sangat layak”; Nilai Validasi Ahli Media sebesar 86% berada pada rentang 76%-100% sehingga masuk kategori “sangat layak”. Hasil uji *user TAM* didapatkan hasil keseluruhan “sangat setuju”. Dengan demikian media pembelajaran anatomi fisiologi sistem respirasi menggunakan *mobile learning* berbasis *android* ini layak digunakan sebagai media pembelajaran. Saran yang dapat diberikan yaitu aplikasi *Respiro-Smart* perlu dikembangkan lebih lanjut pada tampilan gambar dengan penambahan *tool zoom in/out* dan pemilihan warna pada *background* aplikasi.

Kata Kunci: *Respiro-Smart*, *Android*, Media Pembelajaran, ADDIE

## ABSTRACT

**Aditya Bagas Prayoga**, 2019. *“The Development of Anatomy and Physiology of respiration system for Learning Media based android mobile learning on Medical Record Students and Health Information at Health Polytechnic Ministry of Malang”*. **Supervized by Achmad Zani Pitoyo, M.Kes., MMRS.**

*Anatomy of the respiratory system physiology is one of the supporting material in the Classification and Codification of Diseases, Problems related to Health and Medical Action (KKPMT) in the D-III Medical Record and Health Information. Problems based on the results of interviews with students, obtained information that students do not understand the anatomical physiology of the respiratory system. To deal with these problems, researchers innovated to deliver material with an Android-based mobile learning media. This study aims to develop a Respiro-Smart application with an Android-based respiratory system anatomy physiology material for D-III Medical Record students and Health Information of Health Ministry Health Polytechnic Malang. This research is a Research and Development (R & D) research that uses the ADDIE development model. Validation is carried out by material experts and media experts. The developed media was tested on 52 D-III Medical Record students and Class I C. Health Information. The results of this study were obtained: The creation of application products for the development of respiratory system anatomy physiology learning media using android-based mobile learning in PMIK students of Malang Ministry of Health Polytechnic. The results of the expert validation test: Material Expert Validation Value of 81% is in the range of 76% -100% so it is in the category of "very feasible"; Media Expert Validation Value of 86% is in the range of 76% -100% so it is in the category of "very feasible". The results of the TAM user test found that the overall results "strongly agree". Thus the respiratory system anatomy physiology learning media using Android-based mobile learning is worthy of being used as a learning media. Suggestions that can be given are the Respiro-Smart application that needs to be further developed in the image display by adding a zoom in / out tool and selecting colors in the application background.*

**Keywords:** *Respiro-Smart, Android, Learning Media, ADDIE*

