



Yusransyah Yusransyah , Sofi Nurmay Stiani , Farahdina Chairani , Syilvi Adini , Mohamad Subchan , Ferdiyansyah Ferdiyansyah, Nabila Septiani Putri, Rossi Pratiwi, Baha Udin

[The author informations are in the declarations section. This article is published by ETFLIN in Sciences of Pharmacy, Volume 4, Issue 2, -0001, Page 0-0.]

Received: 19 May 2025

Revised: 30 November -0001

Accepted: 30 November
-0001

Published: 30 November
-0001

Editor:

This article is licensed under a Creative Commons Attribution 4.0 International License. © The author(s) (-0001).

Keywords: Application, Quality of life, Medication adherence, Tuberculosis.

Abstract: Kepatuhan yang buruk terhadap pengobatan anti-tuberkulosis (TB) terus menghambat keberhasilan terapi dan kualitas hidup pasien. Penelitian ini bertujuan untuk mengevaluasi efektivitas aplikasi seluler TB-R dalam meningkatkan kepatuhan pengobatan dan kualitas hidup di antara pasien TB paru di Rumah Sakit Daerah Pandeglang. Delapan puluh enam pasien diacak ke dalam kelompok intervensi ($n = 43$) dan kontrol ($n = 43$). Kepatuhan dan kualitas hidup diukur menggunakan Medication Adherence Rating Scale (MARS) dan EQ-5D-5L, masing-masing. Setelah satu bulan, kelompok intervensi menunjukkan kepatuhan yang secara signifikan lebih tinggi (97,7% vs. 79,0%, $p < 0,001$) dan peningkatan skor MARS rata-rata (24,7 vs. 22,7, $p < 0,001$). Meskipun peningkatan kualitas hidup secara keseluruhan tidak signifikan secara statistik, peningkatan penting diamati dalam domain kecemasan/depresi dan perawatan diri. Faktor demografi memengaruhi hasil: pasien berusia 29–39 tahun dan mereka yang tinggal bersama orang lain menunjukkan kepatuhan yang lebih baik, sementara pasien berusia 40–50 tahun mengalami peningkatan kualitas hidup yang lebih baik. Wanita berusia 51–60 tahun yang tinggal sendiri mengalami penurunan kepatuhan meskipun kualitas hidup meningkat. Hasil ini menunjukkan bahwa alat mHealth seperti TB-R dapat meningkatkan kepatuhan, terutama bila didukung oleh kondisi sosial dan demografi yang baik. Intervensi digital yang disesuaikan dapat mengoptimalkan hasil pengobatan dalam perawatan TB. Pengembangan aplikasi mHealth di masa mendatang harus mempertimbangkan faktor sosial dan demografi ini untuk memaksimalkan efektivitas dan keterlibatan pengguna.

Declarations

Author Informations

Yusransyah Yusransyah

Affiliation: Pharmacy Study Program, Sekolah Tinggi Ilmu Kesehatan Salsabila Serang, Banten, Indonesia.

Contribution: Conceptualization, Methodology, Validation, Writing - Original Draft, Writing - Review & Editing.

Sofi Nurmay Stiani

Affiliation: Pharmacy Study Program, Sekolah Tinggi Ilmu Kesehatan Salsabila Serang, Banten, Indonesia.

Contribution: Conceptualization, Methodology, Software.

Farahdina Chairani

Affiliation: Pharmacy Study Program, Sekolah Tinggi Ilmu Kesehatan Salsabila Serang, Banten, Indonesia.

Contribution: Conceptualization, Writing - Original Draft.

Syilvi Adini

Affiliation: Pharmacy Study Program, Sekolah Tinggi Ilmu Kesehatan Salsabila Serang, Banten, Indonesia.

Contribution: Conceptualization, Data Curation.

Mohamad Subchan

Affiliation: Faculty Information Systems Study Program, Faculty of Engineering, Universitas Muhammadiyah Banten, Banten, Indonesia.

Contribution: Resources, Software.

Ferdiyansyah Ferdiyansyah

Affiliation: Faculty Information Systems Study Program, Faculty of Engineering, Universitas Muhammadiyah Banten, Banten, Indonesia.

Contribution: Software.

Nabila Septiani Putri

Affiliation: Pharmacy Study Program, Sekolah Tinggi Ilmu Kesehatan Salsabila Serang, Banten, Indonesia.
Contribution: Writing - Original Draft.

Rossi Pratiwi

Affiliation: Pharmacy Study Program, Sekolah Tinggi Ilmu Kesehatan Salsabila Serang, Banten, Indonesia.
Contribution: Writing - Original Draft.

Baha Udin

Affiliation: Pharmacy Study Program, Sekolah Tinggi Ilmu Kesehatan Salsabila Serang, Banten, Indonesia.
Contribution: Writing - Review & Editing.

Acknowledgment

The researcher would like to thank the Directorate of Research, Technology, and Community Service, Ministry of Education and Culture, Research and Technology of the Republic of Indonesia for providing funding for this research through the 2024 Fiscal Year Research Program Grant with research contract number 130/SP2H/RT-MONO/LL4/2024.

Conflict of Interest

This research has no conflict of interest.

Data Availability

The datasets generated and/or analyzed during the current study are not publicly available due to confidentiality agreements with participating institutions and privacy considerations of patient data. However, anonymized data may be made available from the corresponding author upon reasonable request and with permission from the relevant ethics committee.

Ethics Statement

This study has gone through an ethical review from the Health Research Ethics Commission of Respati University of Yogyakarta with the number 110.3/FIKER/PL/VIII/2024 on August 12, 2024.

Funding Information

This research was supported by Directorate of Research, Technology, and Community Service, Ministry of Education and Culture, Research and Technology of the Republic of Indonesia, under grant number 130/SP2H/RT-MONO/LL4/2024. The funding organization had no role in the study design, data collection and analysis, decision to publish, or preparation of the manuscript.

References

This open access article is distributed according to the rules and regulations of the Creative Commons Attribution (CC BY) which is licensed under a [Creative Commons Attribution 4.0 International License](#).

How to cite: Yusransyah, Y., Stiani, S.N., Chairani, F., Adini, S., Subchan, M., Ferdiyansyah, F., Putri, N.S., Pratiwi, R., Udin, B.. Effectiveness of TB-Reminder Application in Improving Medication Adherence and Quality of Life of Lung Tuberculosis Patients in Indonesia. Sciences of Pharmacy. -0001; 4(2):0-0

Publish with us

In ETFLIN, we adopt the best and latest technology in publishing to ensure the widespread and accessibility of our content. Our manuscript management system is fully online and easy to use.

Click this to submit your article:
<https://etflin.com/#loginmodal>