

DAFTAR PUSTAKA

1. Sutanto YS, Murti PWK, Reviono R, Probandari AN, Kurniawan H. Determinants of Delay in Diagnosis and Treatment in Multi Drug-Resistant Tuberculosis Patients in Health Facilities. *Indones J Med.* 2021;6(1):14–22.
2. Puranik S, Harlow C, Martin L, Coleman M, Russell G, Park M, et al. Monitoring prolongation of QT interval in patients with multidrug-resistant tuberculosis and non-tuberculous mycobacterium using mobile health device AliveCor [Internet]. *J Clin Tuberc Other Mycobact Dis* [Internet]. Elsevier Ltd; 2022;26(December 2021):100293. Available from: <https://doi.org/10.1016/j.jctube.2021.100293>
3. Kusmiati T, Mertaniasih NM, Putranto JNE, Suprapti B, Krisdanti DPA, Kusumastrini YDS, et al. Factors that contribute to the QTc interval prolongation in DR-TB patients on STR regimen. *Indian J Forensic Med Toxicol.* 2021;15(1):1605–12.
4. Wotale TW, Lelisho ME, Negasa BW, Tareke SA, Gobena WE, Amesa EG. Identifying risk factors for recurrent multidrug resistant tuberculosis based on patient's record data from 2016 to 2021: retrospective study. *Sci Rep.* 2024;14(1):23912.
5. Kemenkes RI. Pengobatan Tuberkulosis Resistan Obat dengan Panduan BPaL/M. 2023 p. 3.
6. Duarte R, Munsiff SS, Nahid P, Saukkonen JJ, Winston CA, Abubakar I, et al. Updates on the Treatment of Drug-Susceptible and Drug-Resistant Tuberculosis An Official ATS/CDC/ERS/IDSA Clinical Practice Guideline. *Am J Respir Crit Care Med.* 2025;211(1):15–33.
7. Pakan S. Petunjuk Teknis. 2007 .
8. Pai H, Ndjeka N, Mbuagbaw L, Kaniga K, Birmingham E, Mao G, et al. Bedaquiline safety, efficacy, utilization and emergence of resistance following treatment of multidrug-resistant tuberculosis patients in South Africa: a retrospective cohort analysis [Internet]. *BMC Infect Dis* [Internet]. BioMed Central; 2022;22(1):1–15. Available from: <https://doi.org/10.1186/s12879-022-07861-x>

9. Farid Thariquilhaq M, Yunis Miko Wahyono T. the Effectiveness and Safety of Bedaquiline-Containing Regimens in the Treatment of Patients With Multi-Drug Resistant Tuberculosis (Mdr-Tb): a Systematic Literature Review. *J EduHealth*. 2023;14(3):1382–92.
10. Oliveira de Souza LM. Electrocardiographic change: prolongation of the QT interval, imminent risk of sudden death. *J Cardiol Curr Res*. 2024;17(2):53–4.
11. Johnson JN, Ackerman MJ. QTc: How long is too long? *Br J Sports Med*. 2009;43(9):657–62.
12. Letsas K, Tsirikas S, Letsas GP, Sideris A. Drug-Induced Proarrhythmia: QT Interval Prolongation and Torsades de Pointes. *Hosp Chronicles*. 2011;6(3):118–22.
13. Nachimuthu S, Assar MD, Schussler JM. Drug-induced QT interval prolongation: Mechanisms and clinical management. *Ther Adv Drug Saf*. 2012;3(5):241–53.
14. Cardiomyopathies D. *Drug-Induced Cardiomyopathies*. 2007;
15. Buckner CA, Lafrenie RM, Dénomée JA, Caswell JM, Want DA, Gan GG, et al. We are IntechOpen , the world ' s leading publisher of Open Access books Built by scientists , for scientists TOP 1 % [Internet]. Intech [Internet]. 2016;11(tourism):13. Available from: <https://www.intechopen.com/books/advanced-biometric-technologies/liveness-detection-in-biometrics>
16. Cho Y. Management of patients with long QT syndrome. *Korean Circ J*. 2016;46(6):747–52.
17. Ali AM, Radtke KK, Hesseling AC, Winckler J, Schaaf HS, Draper HR, et al. QT Interval Prolongation with One or More QT-Prolonging Agents Used as Part of a Multidrug Regimen for Rifampicin- Resistant Tuberculosis Treatment: Findings from Two Pediatric Studies. *Antimicrob Agents Chemother*. American Society for Microbiology; 2023;67(7).
18. Huerga H, Khan U, Bastard M, Mitnick CD, Lachenal N, Khan PY, et al. Safety and Effectiveness Outcomes From a 14-Country Cohort of Patients With Multi-Drug Resistant Tuberculosis Treated Concomitantly With Bedaquiline,

- Delamanid, and Other Second-Line Drugs. *Clin Infect Dis*. 2022;75(8):1307–14.
19. Sherazi S, Disalle M, Daubert JP, Shah AH. Moxifloxacin-induced torsade de pointes. 2008;15(1):71–3.
 20. Koide T, Shiba M, Tanaka K, Muramatsu M, Ishida S, Kondo Y, et al. Severe QT interval prolongation associated with moxifloxacin: a case report. *Cases J*. 2008;1(1):2–5.
 21. Guglielmetti L, Tiberi S, Burman M, Kunst H, Wejse C, Togonidze T, et al. QT prolongation and cardiac toxicity of new tuberculosis drugs in Europe: A Tuberculosis Network European Trialsgroup (TBnet) study. *Eur Respir J*. 2018;52(2):10–3.
 22. Padmapriyadarsini C, Vohra V, Bhatnagar A, Solanki R, Sridhar R, Anande L, et al. Bedaquiline, Delamanid, Linezolid, and Clofazimine for Treatment of Pre-extensively Drug-Resistant Tuberculosis [Internet]. *Clin Infect Dis* [Internet]. Oxford University Press; 2023;76(3):E938–46. Available from: <https://doi.org/10.1093/cid/ciac528>
 23. Haeusler IL, Chan XHS, Guérin PJ, White NJ. The arrhythmogenic cardiotoxicity of the quinoline and structurally related antimalarial drugs: A systematic review. *BMC Med*. 2018;16(1):1–13.
 24. Isralls S, Baisley K, Ngam E, Grant AD, Millard J. QT Interval Prolongation in People Treated with Bedaquiline for Drug-Resistant Tuberculosis under Programmatic Conditions: A Retrospective Cohort Study. *Open Forum Infect Dis*. 2021;8(8):1–10.
 25. Simanjuntak AM, Aulia R, Banjarnahor DT, Harianja RD, Yovi I. Bedaquiline Effect Towards QT Interval in Drug Resistant Tuberculosis (DR-TB): A Systematic Review. *Siriraj Med J*. 2023;75(9):638–45.
 26. Ma Q, Li Z, Guo X, Guo L, Yu S, Yang H, et al. Prevalence and risk factors of prolonged corrected QT interval in general Chinese population. *BMC Cardiovasc Disord*. 2019;19(1):1–10.
 27. Tanneau L, Karlsson MO, Rosenkranz SL, Cramer YS, Shenje J, Upton CM, et al. Assessing Prolongation of the Corrected QT Interval with Bedaquiline and

- Delamanid Coadministration to Predict the Cardiac Safety of Simplified Dosing Regimens. *Clin Pharmacol Ther.* 2022;112(4):873–81.
28. Primadana V, Yovi I, Estiningsih DS. Bedaquiline Correlation to QT Interval Prolongation in DR-TB Patients. *J Respirasi.* 2022;8(3):140–6.
29. AlTaweel M. The Worst-Case Scenario of Electrolytes Imbalance, Cardiac Arrest, and Acquired Prolonged QT Interval: A Case Report and Literature Review. *Online J Cardiol Res Reports.* 2023;7(3):1–6.
30. Godwin IU, Atulomah N. Impact of Lifestyle Change Intervention on Tuberculosis Treatment Outcome in Tuberculosis Patients with Diabetes Mellitus Comorbidity in South West Nigeria. *Texila Int J Public Heal.* 2023;11(2).
31. Authors' Affiliations. *All about Your Eyes.* 2020;191–2.
32. Lin N, Zhang H, Li X, Niu Y, Gu H, Lu S, et al. The influence of different glucose tolerance on QTc interval: a population-based study [Internet]. *BMC Cardiovasc Disord* [Internet]. *BioMed Central*; 2023;23(1):1–7. Available from: <https://doi.org/10.1186/s12872-023-03081-6>
33. Pakan S. *Petunjuk Teknis.* 2007 p. 978–979.
34. Saifullah A, Mallhi TH, Khan YH, Iqbal MS, Alotaibi NH, Alzarea AI, et al. Evaluation of risk factors associated with the development of MDR-and XDR-TB in a tertiary care hospital: A retrospective cohort study. *PeerJ.* 2021;9:1–19.
35. Saleem Z, Ullah I, Awan MSBF, Tauqir J, Younis F, Khan N, et al. Distribution of Dr-Tb By Sex, Age Groups, Occupation, Province, Division, District, Type of Disease, Type of Drug Resistance, Treatment Regimen and Outcome of Treatment in Dr-Tb Population in D.I.Khan Division, Pakistan. *Gomal J Med Sci.* 2020;18(3):116–31.
36. Gupta H, Kant S, Jain A, Ahluwalia S, Natu SM. Association of Nutritional Factors with Tuberculosis Treatment Outcome. *Natl Semin Appl Artif Intell Life Sci.* 2013;6–13.
37. McQuaid CF, Sinha P, Bhargava M, Weerasuriya C, Houben RMGJ, Bhargava A. Tuberculosis and nutrition: what gets measured gets managed [Internet]. *Lancet Respir Med* [Internet]. Elsevier Ltd; 2023;11(4):308–10. Available from:

[http://dx.doi.org/10.1016/S2213-2600\(23\)00009-7](http://dx.doi.org/10.1016/S2213-2600(23)00009-7)

38. Alvarez-Uria G, Midde M. Sex differences and factors influencing the duration of the QT interval in patients on anti-tuberculosis therapy [Internet]. *Eur Respir J* [Internet]. 2018;51(2). Available from: <http://dx.doi.org/10.1183/13993003.02368-2017>
39. Ritter JM. Cardiac safety, drug-induced QT prolongation and torsade de pointes (TdP). *Br J Clin Pharmacol*. 2012;73(3):331–4.
40. Lima-Leopoldo AP, Sugizaki MM, Leopoldo AS, Carvalho RF, Nogueira CR, Nascimento AF, et al. Obesity induces upregulation of genes involved in myocardial Ca²⁺ handling. *Brazilian J Med Biol Res*. 2008;41(7):615–20.
41. De Geest B, Mishra M. Role of Oxidative Stress in Diabetic Cardiomyopathy. *Antioxidants*. 2022;11(4).
42. Nieves-Cintrón M, Flores-Tamez VA, Le T, Baudel MMA, Navedo MF. Cellular and molecular effects of hyperglycemia on ion channels in vascular smooth muscle. *Cellular and Molecular Life Sciences*. 2021 p. 31–61.
43. Bacharova L, Kollarova M, Bezak B, Bohm A. Left Ventricular Hypertrophy and Ventricular Tachyarrhythmia: The Role of Biomarkers. *Int J Mol Sci*. 2023;24(4).
44. Maly J, Emigh AM, DeMarco KR, Furutani K, Sack JT, Clancy CE, et al. Structural modeling of the hERG potassium channel and associated drug interactions. *Front Pharmacol*. 2022;13(September):1–26.
45. Krishna S, Borrel A, Kleinstreuer N, Huang R, Zhao J, Xia M. High-Throughput Chemical Screening and Structure-Based Models to Predict hERG Inhibition. *Biology (Basel)*. 2022;11(2).
46. Nguyen TMP, Nguyen BH, Hoang TTT, Nguyen HA, Vu DH, Nguyen MH, et al. Safety and effectiveness of all-oral and injectable-containing, Bedaquiline-based long treatment regimen for pre-XDR tuberculosis in Vietnam. *Front Pharmacol*. 2022;13(October):1–11.
47. Tse G, Li KHC, Cheung CKY, Letsas KP, Bhardwaj A, Sawant AC, et al. Arrhythmogenic Mechanisms in Hypokalaemia: Insights From Pre-clinical Models. *Front Cardiovasc Med*. 2021;8.

48. Wempe MF. New Insights into Ion Channels: Predicting hERG-Drug Interactions. *Int J Mol Sci.* 2022;23(18).
49. Arora N. Serum Chloride and Heart Failure [Internet]. *Kidney Med [Internet]. The Author;* 2023;5(4):100614. Available from: <https://doi.org/10.1016/j.xkme.2023.100614>