

# Ethical Considerations in Tuberculosis Research and Clinical Practice

### Sung-Hyun Jeon\*

Department of Tuberculosis and Lung Disease, Bioethics Centre, University of Cape Town, Western Cape, South Africa

## DESCRIPTION

For years, tuberculosis (TB) has posed a significant global health dilemma, impacting millions of individuals annually. The fight against TB involves not only scientific research and clinical practice but also complex ethical considerations [1]. These ethical dilemmas arise in various aspects of TB care and research, from ensuring patient autonomy and privacy to addressing issues of social justice and resource allocation. This article explores the ethical considerations that underpin TB research and clinical practice, highlighting the need for a balanced approach that maintains both individual rights and the collective responsibility to control this infectious disease.

#### Informed consent

In both TB research and clinical practice, obtaining informed consent is a fundamental ethical principle. Individuals must voluntarily agree to participate in research studies or treatment regimens with a clear understanding of the potential risks and benefits [2]. In TB research, this includes clinical trials for new drugs, vaccines, or diagnostics. In clinical practice, it relates to treatment decisions and diagnostic procedures.

#### Stigma and discrimination

TB has historically carried a significant social stigma. People with TB often face discrimination, isolation, and expels, which can lead to delayed diagnosis and treatment. Ethical practice in TB care requires healthcare providers to actively combat stigma [3], respect patient confidentiality, and ensure that individuals are not unfairly discriminated against due to their TB status.

#### Access to care

The principle of justice requires equitable access to TB diagnosis, treatment, and care. TB primarily affects marginalized and vulnerable populations, including those with limited access to healthcare services. Ethical considerations demand that [4], resources be allocated in a way that prioritizes those most in need, irrespective of their socio-economic status, race, or nationality.

#### Drug-resistant TB and isolation

Multidrug-Resistant TB (MDR-TB) and Extensively Drug-Resistant TB (XDR-TB) present unique ethical challenges. Treating these forms of TB often involves prolonged and complex regimens with potentially severe side effects [5]. Isolation of patients with drug-resistant TB to prevent transmission raises questions about individual liberty and the balance between public health interests and individual rights.

#### Privacy and confidentiality

Protecting patient privacy and confidentiality is supreme as in TB care. Disclosing a patient's TB status without their consent can lead to breaches of trust and social harm. Healthcare providers and researchers must follow strict confidentiality guidelines, ensuring that patient information is kept secure and disclosed only when necessary for public health purposes.

#### Contact tracing and disclosure

Contact tracing is a vital public health measure to prevent the spread of TB. It involves identifying and notifying individuals who have been in close contact with a TB patient. However, the ethical dilemma lies in balancing the obligation to protect public health with the patient's right to privacy [6]. Healthcare providers must navigate this delicate balance, ensuring that contact tracing is conducted discreetly and sensitively.

#### Research on vulnerable populations

Conducting TB research on vulnerable populations, such as prisoners, homeless individuals, or refugees, raises ethical questions related to informed consent, autonomy, and vulnerability. Researchers must ensure that these individuals are not exploited, and their rights and well-being are protected [7].

#### **Resource allocation**

Resource allocation in TB research and clinical practice is a complex ethical issue. Decisions about where to allocate limited resources, such as diagnostic tests, treatment courses, or research funding, can have life-or-death consequences [8]. Ethical

**Correspondence to:** Sung-Hyun Jeon, Department of Tuberculosis and Lung Disease, Bioethics Centre, University of Cape Town, Western Cape, South Africa E-mail: sunghcho@jeon.ac.kr

Received: 03-Jul-2023, Manuscript No. MDTL-23-27263; Editor assigned: 05-Jul-2023, Pre QC No. MDTL-23-27263 (PQ); Reviewed: 19-Jul-2023, QC No. MDTL-23-27263; Revised: 26-Jul-2023, Manuscript No. MDTL-23-27263 (R); Published: 02-Aug-2023, DOI: 10.35248/2161-1068.23.13.377.

Citation: Jeon SH (2023) Ethical Considerations in Tuberculosis Research and Clinical Practice. Mycobact Dis. 13:377.

**Copyright:** © 2023 Jeon SH. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

#### Jeon SH

considerations demand that these decisions prioritize evidencebased approaches, equity, and maximizing health benefits for the greatest number of people.

#### Drug development and access

The development of new TB drugs and vaccines is essential to combat drug-resistant strains and improve treatment outcomes. However, ethical dilemmas arise concerning access to these innovations, particularly in low- and middle-income countries [9]. Striking a balance between motivative research and ensuring affordable access to new treatments is a critical ethical challenge.

### **Research** ethics

Ethical considerations in TB research include ensuring that studies adhere to rigorous scientific and ethical standards, that vulnerable populations are protected, and that the potential benefits of research outweigh the risks [10]. Researchers must also consider how the dissemination of research findings may impact public health, clinical practice, and policy.

## CONCLUSION

Ethical considerations are integral to TB research and clinical practice, as they guide decisions that affect individual patients, communities, and global public health efforts. The principles of informed consent, justice, patient autonomy, and privacy should underpin all TB-related activities, from research studies and diagnostic procedures to treatment regimens and public health interventions.

Balancing individual rights with public health requirements can be challenging, but it is essential for the ethical practice of TB care and research. As TB continues to be a major global health concern, ethical considerations must remain at the forefront of efforts to control and eliminate this infectious disease. By upholding ethical principles, healthcare providers, researchers, policymakers, and communities can work together to ensure that TB prevention, diagnosis, and treatment are not only effective but also respectful of human rights and dignity.

## REFERENCES

- Yükseltürk N, Dinç L. Knowledge about anti-tuberculosis treatment among nurses at tuberculosis clinics. Int J Nurs Pract. 2013;19(1): 47-53.
- Bell CA, Ilomäki J, Pichenda K, Duncan GJ, Saini B. Referral of tuberculosis symptomatic clients from private pharmacies to public sector clinics for diagnosis and treatment in C ambodia. J Eval Clin Pract. 2015;21(2):285-291.
- 3. van Rensburg AJ, Engelbrecht M, Kigozi G, van Rensburg D. Tuberculosis prevention knowledge, attitudes, and practices of primary health care nurses. Int J Nurs Pract. 2018;24(6):e12681
- 4. Hummel P, Ahamed N, Amanullah F. Ethical issues surrounding childhood tuberculosis. Int J Tuberc Lung Dis. 2020;24(5):27-31.
- Jindani A, Griffin GE. Challenges to the development of new drugs and regimens for tuberculosis. Tuberculosis (Edinb). 2010;90(3): 168-170.
- Chesca A, Dogariu F, Rogozea L. Ethical aspects related to counseling patients suffering from tuberculosis. Turk Thorac J. 2010;8(1).
- 7. Lashley FR. Clinical genetics in nursing practice. Springer. 2005.
- Coker R, McKee M, Atun R, Dimitrova B, Dodonova E, Kuznetsov S, et al. Risk factors for pulmonary tuberculosis in Russia: Case-control study. BMJ. 2006;332(7533):85-87.
- Berg-Johnsen A, Hådem SO, Tamrakar D, Harstad I. A questionnaire of knowledge, attitude and practices on tuberculosis among medical interns in Nepal. J Clin Tuberc Other Mycobact Dis. 2020;20:100173.
- Mekonnen D, Munshea A, Nibret E, Derbie A, Wubetu M, Taye M, et al. Rapid bioethical assessment for *mycobacterium tuberculosis* and host genetic study in amhara regional state, ethiopia: Towards a context-specific ethical approach. Ethiop J Health Sci. 2023;33(3).