
LAW, ETHICS, AND ORGAN DONATION IN INDIA: BRIDGING THE GAP BETWEEN REGULATION AND REALITY

Shefali Sharma, Ph.D. Scholar, Amity University, Noida

Prabhat Sharma, Independent Researcher, Muzaffarnagar, India

ABSTRACT

Organ donation in India has evolved from a neglected ethical issue into a pressing legal, medical, and policy concern. The transplantation regime is principally governed by the Transplantation of Human Organs and Tissues Act, 1994 (as amended in 2011), supported by the 2014 Rules and administrative guidelines. Despite these frameworks, India continues to face systemic gaps in enforcement, low cadaveric donation rates, socio-cultural resistance, and recurring scandals of organ trafficking. This paper critically examines the legal complexities of organ donation in India through a multidisciplinary lens, exploring statutory provisions, historical evolution, judicial pronouncements, and institutional mechanisms such as the National Organ and Tissue Transplant Organization. The analysis highlights structural shortcomings such as inadequate recognition of extended families in consent provisions, weak enforcement against commercial organ trade, lack of transparency in allocation, and insufficient alignment with global best practices. The study also delves into socio-cultural, ethical, and data protection challenges, underscoring the importance of trust and transparency in strengthening public confidence. Drawing on comparative international models, it recommends a shift toward a more robust, transparent, and ethically informed framework, including presumptive consent debates, stronger regulatory oversight, and enhanced data privacy safeguards. Ultimately, the paper argues that meaningful reform in India requires not only legislative amendments but also cultural engagement, institutional accountability, and proactive state support to bridge the gap between law, ethics, and medical practice.

Keywords: Organ Donation, Organ Trafficking, Legal Reforms, Medical Ethic, Ground Reality

I. Introduction

The transplantation landscape in India sits at the intersection of constitutional values, health system capacity, and an evolving statutory framework that must both deter criminal exploitation and facilitate life saving access. The Transplantation of Human Organs and Tissues Act, 1994, as amended in 2011 and operationalized through the 2014 Rules, remains the primary legislative for organ donation and transplantation. Legalizing and regulating brain stem death, enabling living and deceased donation, criminalizing commercial dealings and supervising authorization are some objectives the acts revolves around. Yet three decades on, persistent mismatches between need and availability, uneven state level implementation, data gaps, affordability constraints, and complex consent practices reveal regulatory seams that must be repaired if India is to move from sporadic success to sustained equitable access. Recent policy changes such as scrapping state domicile restrictions for recipients, removing the upper age cap for transplantation on the waiting list, and expanding public financing signal momentum. But hard problems remain, how to ethically enlarge the deceased donor pool, how to strengthen brain stem death identification and referral, how to fund lifelong immune suppressant drug for the poor, and how to simplify governance without diluting safeguards against trafficking. This paper synthesizes the law, policy, and evidence, identifies doctrinal gaps, and offers a reform blueprint designed for India's federal context. The objectives of the study are to evaluate the transparency and accountability mechanisms within current legal frameworks, to examine the existing legal framework governing organ donation in India, to analyze the challenges and gaps in the implementation of organ donation laws and to recommend reforms and future directions for strengthening India's organ donation framework.

India faces one of the lowest organ donation rates in the world, only 0.52 per million population in 2022 compared to Spain's 46.3 per million population¹. Despite increasing demand over 1.8 lakh people require kidney transplants annually, while only 12,000 are performed. The legal system has struggles to bridge the gap between statutory ideals and clinical realities.²

¹ Ministry of Health & Family Welfare, Annual Report 2022–23, at 211 (2023)

² National Organ and Tissue Transplant Organization (NOTTO), Annual Report 2022, at 9–11

II. Historical Evolution of Organ Donation Law in India

The legal framework for organ donation in India is relatively recent when compared with Western jurisdictions, reflecting a gradual response to medical advances and ethical concerns. Prior to the 1990s, there was no specialized legislation governing transplantation. Organ donation was carried out under common law principles of consent and the Indian Penal Code, 1860, which treated illegal organ removal as an offence under section 319-326 dealing with hurt and grievous hurt.³ However, rapid developments in surgical techniques during the 1970s and 1980s, combined with reports of widespread kidney trafficking in cities like Chennai and Mumbai, exposed the inadequacy of these general provisions⁴.

The demand for specialized legislation first crystallized with the 1969 *Law Commission of India, 51st Report on the Indian Penal Code*, which highlighted the absence of legal recognition for “brain-stem death”.⁵ This was followed by the *Law Commission’s 200th Report (1998)*, which explicitly emphasized the need for regulating transplantation and protecting vulnerable donors from coercion or exploitation.⁶ The absence of a regulatory framework allowed unregulated kidney markets to flourish, attracting international criticism. The infamous “Kidney Bazaar” of Tamil Nadu in the 1980s, where poor individuals were coerced into selling kidneys created a policy push for reform.⁷ Responding to these concerns, Parliament enacted the *Transplantation of Human Organs Act, 1994*, India’s first comprehensive transplant law.

The engagement of India with organ transplantation dates back to the first successful kidney transplant at Christian Medical College, Vellore, in 1971.⁸ Initially, the absence of legal regulation led to flourishing organ trade, particularly in kidneys. Throughout the 1980s and early 1990s, India was internationally labelled the “kidney bazaar of the world,” with reports estimating that over 2,000 kidneys were sold annually in cities like Chennai and Mumbai.⁹ The

³ Indian Penal Code, No. 45 of 1860, section 319–326

⁴ S. Jesani & A. Sharma, Bioethics and Health Care in India, 7 ISSUES MED. ETHICS 32 (1999).

⁵ Law Commission of India, 51st Report: The Indian Penal Code (1969).

⁶ Law Commission of India, 200th Report: Need for Legislation on Human Organ Transplantation (1998).

⁷ Madhav G. Deo, Ethical and Legal Issues in Organ Transplantation in India, 4 INDIAN J. MED. ETHICS 50 (2007).

⁸ M. Shroff, Legal and Ethical Aspects of Organ Donation and Transplantation, 18 Indian J. Urol. 95, 96 (2002)

⁹ P. Chugh, Kidney Rackets and Legal Oversight in India, 12 Nat’l Med. J. India 210, 212 (2020).

Transplantation of Human Organs and Tissues Act, 1994 was enacted in response to this rampant commercialization and in alignment with the World Health Organization's (WHO) guiding principles on transplantation¹⁰. It introduced brain stem death as a legal category of death, enabling deceased donation, and prohibited organ trade by criminalizing commercial dealings. However, enforcement remained weak, with numerous rackets surfacing in subsequent decades.

The 2011 Amendment broadened the scope by covering tissues and clarifying rules on "swap donation". The 2014 Rules detailed the functioning of Authorization Committees, defines hospital responsibilities, and mandated transplant registries. Despite these reforms, systemic loopholes have allowed continued exploitation, particularly through forged kinship claims and inadequate oversight.¹¹ Parallel to legislation, policy efforts such as the *National Organ Transplant Programme (2014)* and the establishment of NOTTO, Regional (ROTO), and State (SOTTO) bodies reflected institutional attempts to streamline cadaveric donation¹². Yet, the trajectory shows that India's organ donation law has remained largely reactive, prompted by scandals or external pressure rather than proactive ethical engagement. Current gaps, particularly regarding presumed consent, equitable allocation, and donor protection, reflect unfinished work in this evolution journey.

III. The Legal Architecture: Statutes, Rules, and Institutional Design

The *Transplantation of Human Organs and Tissues Act, 1994* established the core legal categories: "donor", "recipient", live and deceased donation, brain-stem death, and "appropriate authority", alongside penal provisions against commercial dealings. The 2011 amendment extended coverage explicitly to "tissues", strengthened penalties, clarified near-relative donation, and formalized swap donation mechanisms, later operationalized in the *Transplantation Rules, 2014*. Those Rules standardized hospital registration, brain stem death certification, and procedures for authorization committees (ACs) to scrutinize unrelated living donations, attempting to choke off inducement and coercion. Institutional coordination was anchored by the National Organ and Tissue Transplant Organization (NOTTO), with a hub and

¹⁰ World Health Organization, Guiding Principles on Human Cell, Tissue and Organ Transplantation (2010).

¹¹ The Transplantation of Human Organs and Tissues (Amendment) Act, No. 16 of 2011, INDIA CODE (2011)

¹² Ministry of Health & Family Welfare, National Organ Transplant Programme Guidelines (2014).

spoke network of Regional (ROTO) and State (SOTO) organizations to manage registries, allocation, reporting, and public awareness.

A. Statutory Structure

The *Transplantation of Human Organs Act, 1994* was India's first comprehensive legislation on organs transplantation, introduced to curb rampant organ trade and to provide a legal framework for cadaveric donation.¹³ The Act criminalized commercial dealings in human organs under section 18 and 19, Established the legal definition of "brain stem death" under section 2(d) and restricted organ donation to "near relatives" unless approved by an Authorization Committee under section 9.¹⁴ Now, while these provisions aimed to balance altruism with safeguards, in practice, they created new loopholes. For instance, the strict emphasis on "near relatives" led to forged documentation of kinship and disguised commercial transactions¹⁵.

The *Transplantation of Human Organs and Tissues (Amendment) Act, 2011* and the subsequent 2014 Rules expanded the scope of regulation. Section 2(f) broadened "donor" to include tissue donors, while Section 2(i) included "swap transplantation" between unrelated donor-recipient pairs, subject to committee approval.¹⁶ The Amendment also mandated the establishment of appropriate authorities and hospital based Authorization Committees as per sections 13-15, introduced penalties of up to 10 years imprisonment for commercial trade under section 19, and provided for the creation of national and state level bodies, including the National Organ and Tissue Transplant Organization.¹⁷

Despite these reforms, major gaps persist. First, enforcement is uneven, while the Act criminalizes organ trade, cases of kidney rackets in Delhi, Tamil Nadu, and Gujarat highlight weak monitoring and collusion of medical professionals¹⁸. Second, the law does not adequately

¹³ Transplantation of Human Organs Act, No. 42 of 1994, INDIA CODE (1994).

¹⁴ Id. sections 2(d), 9, 18–19.

¹⁵ Madhav G. Deo, Ethical and Legal Issues in Organ Transplantation in India, 4 INDIAN J. MED. ETHICS 50, 52 (2007)

¹⁶ Transplantation of Human Organs and Tissues (Amendment) Act, No. 16 of 2011, INDIA CODE (2011)

¹⁷ Ministry of Health & Family Welfare, Transplantation of Human Organs and Tissues Rules, 2014, Gazette of India.

¹⁸ D. Goyal, The Kidney Trade: A Case Study from India, 335 BMJ 1129, 1130 (2007).

integrate with other frameworks. For instance, the Act does not contain provisions for data privacy or patient confidentiality in organ allocation, leaving a gap despite the enactment of the Digital Personal Data Protection Act, 2023¹⁹. Third, the Act lacks clarity on family consent. Even when an individual registers as a donor, Section 3(2) allows the family significant influence in overriding consent, creating ethical dilemmas and reducing effective cadaver donations.²⁰ Another gap is the absence of a presumed consent model. India's purely "opt-in" system under section 3 results in extremely low cadaver donation rates 0.86 per million population compared with Spain, which follows presumed consent²¹. Moreover, *Transplantation of Human Organs and Tissues Act, 1994* requirement for Authorization Committees to review unrelated donations as per section 9(3) is intended as a safeguard, but delays and bureaucratic hurdles often deter genuine altruistic donations.²²

The principal provisions of *Transplantation of Human Organs and Tissues Act, 1994* regulate:

1. Consent for removal of organs:

A person may authorize removal of organs before death (section 3), but family consent often overrides such wishes.

2. Brain stem death :

Under section 2 of the Act, brain stem death is recognized as legal death, provided it is certified by a panel of medical experts.

3. Authorization Committees:

Section 9 of the Act works as to scrutinize living donation cases, especially unrelated donors, to prevent commercial dealings.

4. Prohibition of Commercial Trade:

As per the section 18 of the Act commercial trade is a punishable offence with imprisonment up to 10 years and fine.

5. Appropriate Authorities:

Authorities here are established at central and state levels to oversee regulation

¹⁹ Digital Personal Data Protection Act, No. 22 of 2023, Acts of Parliament, 2023 (India).

²⁰ Law Commission of India, Report No. 200: Need for Legislation on Human Organ Transplantation (1998).

²¹ World Health Organization, Global Observatory on Donation and Transplantation (GODT) Annual Data Report 2022.

²² R. Shroff, Legal and Ethical Aspects of Organ Donation and Transplantation, 5 INDIAN J. UROL. 151, 154 (2009).

In sum, while *Transplantation of Human Organs and Tissues Act, 1994* established India's statutory regime for transplantation, the framework remains fragmented, weakly enforced, and poorly harmonized with contemporary privacy, equity, and ethical concerns. Without reforms, particularly in the areas of presumed consent, transparency in allocation, and stronger enforcement against trafficking the law risks perpetuating the very exploitation it sought to eliminate.

B. Institutional Framework

The National Organ and Tissue Transplant Organization (NOTTO), set up in 2014, is the apex body responsible for maintaining the national registry, allocating organs, and promoting awareness.²³ It operates alongside Regional (ROTTOS) and State Organ and Tissue Transplant Organizations (SOTTOs). Despite their presence, coordination and data sharing remain weak, leading to inequities in allocation.

IV. Persistent Challenges in India's Organ Donation Framework

A. Consent and Autonomy

One of the central issues in organ donation law is the conflict between individual autonomy and family veto power. Here Section 3 of the *Transplantation of Human Organs and Tissues Act, 1994* recognizes that an individual may authorize organ donation before death.²⁴ However, when it comes to practice, hospitals rarely proceed without family consent even when the donor has clearly expressed intent.²⁵ This undermines autonomy and contributes to low deceased donation rates. Comparative jurisdiction such as Spain and Singapore have implemented opt-out systems, where consent is presumed unless expressly refused²⁶. India, by contrast, follows an opt-in regime, which relies on proactive registration, resulting in fewer donors. The debate over introducing a "soft opt-out" system in India where families are consulted but presumed consent applies has been ongoing but remains politically sensitive.²⁷

²³ NOTTO, Operational Guidelines (2015), available at <https://notto.gov.in>.

²⁴ The Transplantation of Human Organs and Tissues Act, No. 42 of 1994, section 3, INDIA CODE (1994)

²⁵ The Transplantation of Human Organs and Tissues Act, No. 42 of 1994, section 3, INDIA CODE (1994)

²⁶ Rafael Matesanz, Spain: A World Leader in Organ Donation, 16 *Transplant Proc.* 219, 220 (2010)

²⁷ A. Rao, Opt-Out Consent and Indian Organ Donation Policy, 22 *NUJS L. Rev.* 311, 315 (2021).

B. Brain Stem Death Recognition

Although brain stem death was legalized in 1994, its acceptance among clinicians and the public remains weak.²⁸ Certification requires a medical board consisting of four specialists, which many hospitals particularly in rural areas cannot constitute.²⁹ Families often resist brain death declaration due to cultural or religious beliefs equating death solely with cardiac arrest³⁰ This results in underutilization of potential donors: in 2022, of nearly 16,000 brain stem death reported, fewer than 3% translated into organ donations.³¹

C. Authorization Committees and Misuse

The Authorization Committees (Acs) under section 9 are tasked with preventing commercial transactions by scrutinizing living donations between unrelated individuals.³² However, widespread corruption has diluted their effectiveness. Numerous scandals such as the Gurgaon Kidney Racket (2008), where poor laborers were coerced into selling kidneys for wealthy recipients exposed the failure of Acs to verify consent.³³

Reports indicate that forged kinship documents, impersonation, and bribes continue to bypass committee scrutiny.³⁴ This undermines the credibility of the regulator system and perpetuates inequality, as the poor disproportionately become victims.

V. The Problem of Illegal Organ Trade

Despite the statutory prohibition, India remains a hotspot for illegal kidney and liver transplants. The WHO estimated that 10% of global transplants involve trafficked organs, with South Asia as a hub.³⁵

²⁸ *ibid*

²⁹ R. Kumar, Challenges in Implementing Brain Death in India, 8 J. Med. Ethics & Hist. Med. 45, 48 (2017).

³⁰ S. Menon, Cultural Barriers to Brain Death Recognition in India, 11 Indian J. Crit. Care Med. 191, 194 (2019)

³¹ NOTTO, Annual Report 2022, at 45

³² The Transplantation of Human Organs and Tissues Act, section 9

³³ Kidney Racket Unearthed in Gurgaon, THE HINDU (Jan. 25, 2008)

³⁴ R. Sen, Organ Trade and Authorization Committees in India, 14 Indian J. Med. Ethics 121, 123 (2019)

³⁵ World Health Organization, Global Observatory on Organ Donation and Transplantation (2019).

A. **Modus Operandi of Rackets**

Illegal transplants often operate through network of brokers, private hospitals, and forged documentation³⁶. Donors, usually indigent individuals, are promised 2-3 lakh rupees, though they often receive far less³⁷. Cases such as the Mumbai Kidney Racket (2016) revealed complicity of doctors and hospitals in fabricating donor-recipient relationship.³⁸

B. **Weak Enforcement**

Although THOTA prescribes up to 10 years imprisonment, conviction rates are dismally low.³⁹ Police lack medical expertise, while medical councils rarely revoke licenses. In many cases, accused doctors resume practice despite ongoing trials⁴⁰.

C. **Cross-Border Dimension**

Organ tourism compounds the problem, with foreign recipients traveling to India for cheaper transplants.⁴¹ Despite government efforts, including mandatory approval from state authorities for foreign recipients, loopholes persist.

VI. Data Protection And Transparency

Another legal complexity involves the handling of sensitive health data of donors and recipients. The Digital Personal Data Protection Act, 2023 recognizes health data as sensitive personal information.⁴² However, transplant registries maintained by NOTTO and SOTTO lack clear privacy safeguards.⁴³ Donors' identities are sometimes exposed in the media, violating confidentiality.⁴⁴ Furthermore, allocation criteria are often opaque. Unlike the U.S. (UNOS) or Euro transplant systems, India lacks a transparent algorithm for prioritizing recipients beyond

³⁶ V. Jha, Organ Trafficking and India's Kidney Market, 18 Asian Bioethics Rev. 201, 204 (2016).

³⁷ Human Rights Watch, India's Kidney Market: Exploitation and Health Risks (2015).

³⁸ Mumbai Police Bust Kidney Racket, INDIAN EXPRESS (Feb. 6, 2016)

³⁹ THOTA, section 18.

⁴⁰ N. Mehta, Medical Accountability in Organ Trade Cases, 42 EPW 31, 33 (2017)

⁴¹ A. Gill, Organ Tourism in India: Law and Loopholes, 25 Health & Hum. Rts. J. 87, 90 (2020).

⁴² The Digital Personal Data Protection Act, No. 22 of 2023, INDIA CODE (2023).

⁴³ S. Reddy, Data Privacy in Organ Donation Registries in India, 19 Indian J. Med. Ethics 56, 58 (2022)

⁴⁴ Donor Identity Revealed in Transplant Case, TIMES OF INDIA (Mar. 3, 2021).

basic medical criteria.⁴⁵ This creates scope for arbitrariness and inequality, undermining public trust.

Beyond the regulatory framework under the *Transplantation of Human Organs and Tissues Act, 1994*, the management of donor and recipient information introduces complex concerns about privacy and transparency. Organ transplantation necessarily requires the collection and processing of highly sensitive personal and medical data ranging from genetic details to socio-economic profiles which, if mishandled, could expose individuals to discrimination or exploitation. India's recently enacted Digital Personal Data Protection Act, 2023 recognizes health data as sensitive personal information and mandates lawful processing, purpose limitation, and data minimization⁴⁶. Yet its application to the organ donation regime remains underdeveloped, as neither the National Organ and Tissue Transplant Organizations nor the State Organ and Tissue Transplant Organizations have formalized protocols for anonymization, encryption, or third-party data sharing.⁴⁷ This absence creates risks of misuse, such as unauthorized access to waiting lists or manipulation of allocation priorities. Transparency too remain uneven. While NOTTO publishes statistics, the absence of a real time, independently audited national registry undermines public confidence in equitable allocation.⁴⁸ Comparative models illustrates the benefits of robust transparency: Spain's centralized registry, managed by the Organización Nacional de Trasplantes, demonstrates how fairness and openness can coexist with privacy safeguards. Without institutionalizing similar mechanisms, India risks both privacy violations and declining trust In its organ donation framework⁴⁹.

VII. Socio-Cultural And Ethical Dimensions

Organ donation in India is deeply influenced by socio-cultural beliefs, religious interpretations, and ethical considerations, which often shape both public attitudes and policy responses. Indian society places significant emphasis on familial authority and ritual practices surrounding death, which makes the decision to donate organs more collective than individual. Families frequently

⁴⁵ P. Sharma, Allocation Policies in Organ Transplantation: Indian Lacunae, 29 Indian J. Transplant 87, 90 (2021)

⁴⁶ Digital Personal Data Protection Act, No. 22 of 2023, Acts of Parliament, 2023 (India).

⁴⁷ Ministry of Health & Family Welfare, National Organ and Tissue Transplant Organization (NOTTO) Guidelines (2014).

⁴⁸ NOTTO, Annual Report 2021–22 (Gov't of India, 2022).

⁴⁹ See Organización Nacional de Trasplantes (ONT), Activity Report 2022, Spain Ministry of Health (2023).

resist donation due to concerns about the sanctity of the body, fear of incomplete last rites, or misconceptions about reincarnation and spiritual purity. Religious diversity further complicates the narrative, while most major Indian faiths including do not prohibit organ donation, interpretations within communities often diverge, creating, hesitation. Ethically, the issue raises questions of autonomy, dignity, and distributive justice. On one hand, donation represents altruism and solidarity, on the other, the prevalence of poverty raises fears of coercion and exploitation, particularly in living donations.

India's diversity shapes organ donation acceptance in unique ways.

1. Religious beliefs: While Hinduism, Islam, and Christianity generally permit donation, misconceptions persist, with some communities viewing it as interference with bodily integrity.⁵⁰
2. Gender Dynamics: Studies show women are disproportionately living donors, particularly for kidneys, due to cultural expectations of sacrifice.⁵¹
3. Economic Inequity: Poor donors are exploited, while wealthy recipients dominate access⁵².
4. Awareness: Surveys reveal that less than 30% of Indians are aware brain stem death as a concept⁵³.

The ethical debate is further sharpened by India's persistent problem of illegal organ markets, which commodify human body parts and disproportionately target the vulnerable. Thus, socio-cultural and ethical dimensions are not peripheral but central to the legal landscape, demanding a nuanced approach that respects cultural sensitivities while promoting ethical clarity and equity in organ donation practices.

VIII. Recommendations And Suggestions

In light of the persistent challenges that India faces in regulating organ donation and transplantation, a multi-pronged reform strategy is imperative. *First*, the legislative framework under the *Transplantation of Human Organs and Tissues Act, 1994* requires modernization.

⁵⁰ A. Sharma, Religion and Organ Donation in India, 14 Indian J. Med. Ethics 201, 203 (2019)

⁵¹ S. Desai, Gendered Dimensions of Kidney Donation in India, 44 EPW 66, 68 (2016)

⁵² A. Banerjee, Economic Inequity in Organ Transplant Access, 17 Indian J. Health L. & Ethics 99, 101 (2020)

⁵³ NOTTO, Awareness Survey on Organ Donation 2021, at 18.

While the 2011 amendment and the 2014 Rules were positive developments, the Act continues to leave critical gaps, particularly in the area of consent. India follows a highly restrictive “opt-in” system beginning with pilot states and urban centers could increase cadaveric donations while still respecting cultural sensitivities. However, safeguards must be built in to ensure that families retain a say, and vulnerable groups are not exploited. *Second*, enforcement mechanisms need strengthening. Despite the prohibition of organ trade, kidney rackets continue to be unearthed, indicating that existing penalties and oversight structures are insufficient. Authorization Committees, often criticized for being both overburdened and under-trained, should be professionalized, digitized, and monitored by independent review boards to ensure transparency in living donor approvals. Additionally, transplant hospitals should be mandated to publish anonymized data on approvals, rejections, and transplants, creating a culture of accountability. *Third*, the institutional framework needs greater coherence. Although NOTTO, ROTTOs, and SOTTOs were created to streamline coordination, they suffer from weak data integration, inconsistent reporting, and overlapping jurisdiction. Establishing a central, real-time digital registry accessible across states would facilitate transparent organ allocation and reduce regional disparities. This should be supplemented with blockchain based traceability mechanisms to ensure tamper proof donor and recipient records, while aligning with India’s emerging data protection law. *Fourth*, awareness and education campaigns require significant expansion. Public distrust, myths about brain death, and cultural hesitation toward body disfigurement remain major deterrents. Comprehensive awareness drives integrated into school curricula, religious dialogues, and community health programs are necessary to normalize the idea of donation as a noble social duty. In particular, engaging with religious leaders to clarify doctrinal support for organ donation could help overcome deep seated hesitations. *Fifth*, financial equity must be addressed. At present, access to transplantation is skewed toward wealthier patients in private hospitals, while poorer patients remain dependent on limited government facilities. The government should expand insurance coverage under Ayushman Bharat and other schemes to cover transplant costs and post-operative immunosuppressive therapy. Simultaneously, funding should be earmarked for strengthening transplant infrastructure in public hospitals, thereby democratizing access. *Finally*, India must intensify research and ethical deliberation on emerging technologies such as xenotransplantation, bioengineered organs, and stem cell therapies. While these developments hold promise for addressing shortages, they raise complex legal and ethical questions around safety, ownership, and regulation. Establishing a national bioethics

commission with statutory authority could ensure that such innovations are guided by principles, context sensitive regulation.

To summarize, India's path forward requires legislative recalibration, stronger enforcement, better institutional coordination, enhanced public awareness, equitable financing, and forward looking research governance. Only such a holistic approach can transform India's organ donation framework from a reactive legal regime into a robust, transparent, and ethical system that both saves lives and preserves dignity.

IX. Conclusion

The legal regime governing organ donation in India stands at a critical crossroads. Over the past three decades, the enactment of the *Transplantation of Human Organ and Tissues Act, 1994*, and its subsequent amendments has undoubtedly laid the groundwork for ethical and regulated transplantation. Yet, the experience of implementation reveals persistent gaps in design, enforcement, and cultural integration. Organ scarcity continues to define the Indian landscape, with demand far outstripping supply, thereby fueling illegal markets and exploitative practices despite statutory prohibitions. These realities underscore the need for a paradigm shift in both legal thinking and institutional practice. The present system's over reliance on family consent, coupled with widespread misconceptions about brain stem death, has resulted in underutilization of available organs and a strikingly low donation rate compared to global standards. While India has created a three-tiered institutional framework through NOTTO, ROTTOs and SOTTOs, these bodies remain fragmented, under-resourced, and plagued by jurisdictional ambiguities. The lack of a unified, transparent, and real time registry perpetuates inequities in allocation and fosters public mistrust. Moreover, enforcement agencies remain ill equipped to dismantle well organized organ trafficking rackets, which continue to exploit economic vulnerability. At the same time, the ethical dimensions of organ donation demand careful balancing. The law must guard against commodification of the human body while simultaneously enabling individuals to exercise autonomy in making life saving choices. India's constitutional framework, with its emphasis on the right to life and dignity under Article 21, compels the State to develop a legal ecosystem that is simultaneously compassionate, transparent, and just. Bridging this normative aspiration with practical realities requires reimagining organ donation not merely as a medical process but as a collective societal commitment. Reforms must therefore operate on multiple planes. Legislatively, India must

revisit its consent framework and examine models of presumed consent within the limits of cultural feasibility. Administratively, transplant oversight bodies must be digitized and professionalized, with accountability built into every stage of authorization and allocation. Socially, myths and taboos surrounding organ donation must be dismantled through sustained public engagement, with the active involvement of religious, community, and educational institutions. Economically, the transplant ecosystem must be made more equitable by extending financial support to the marginalized, ensuring that access to transplantation is not restricted to the privileged few. Looking ahead, India must also prepare for the disruptive possibilities of biomedical innovation. The advent of bioengineered organs, xenotransplantation, and regenerative therapies raises questions that cannot be addressed by existing statutes alone. Anticipatory regulation, grounded in bioethics and comparative insights, is essential to ensure that India is not caught unprepared when science outpaces law. Establishing a statutory national bioethics commission could help provide this much-needed foresight.

In conclusion, the promise of organ donation in India lies in embracing reform as an ongoing process rather than a static legislative exercise. By addressing existing legal and institutional deficiencies while anticipating future challenges, India has the opportunity to craft a system that is globally credible and locally responsive. Ultimately, the measure of success will not only be in the number of organs transplanted but in the restoration of public trust, the safeguarding of dignity, and the reaffirmation of the constitutional commitment to life and equality. If India can rise to this challenge, organ donation will evolve from a contested legal terrain into a humane and just practice that embodies the very spirit of constitutional morality.

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