WORLD JOURNAL OF PHARMACEUTICAL RESEARCH
Coden USA: WJPRAP Impact Factor 8.453
Volume 14, Issue 22, 197-211. Review Article ISSN 2277–7105

"TRACING THE ROOTS OF FORENSIC SCIENCE IN ANCIENT INDIAN LITERATURE: A REVIEW OF PURANIC AND SMRITI PERSPECTIVES"

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Article Received on 17 Oct. 2025,
Article Revised on 07 Nov. 2025,
Article Published on 16 Nov. 2025,
https://doi.org/10.5281/zenodo.17615251

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How to cite this Article: Sunil Kumar*, Sahana V. M. Vats. (2025). Tracing The Roots Of Forensic Science In Ancient Indian Literature: A Review Of Puranic And Smriti Perspectives. World Journal of Pharmaceutical Research, 14(22), 197–211.

ABSTRACT

Forensic science, in its modern manifestation, represents the systematic pursuit of truth through scientific means. Yet, its philosophical and procedural origins in India trace back to an era long before the advent of modern laboratories. Ancient Indian texts including the *Puranas*, *Smritis*, and *Dharmashastras* articulated a highly evolved understanding of evidence, investigation, and justice that parallels contemporary forensic principles. This review explores the conceptual and applied aspects of forensic thought embedded in scriptures such as the *Manusmriti*, *Yajnavalkya Smriti*, *Garuda Purana*, and *Narada Smriti*, alongside the medico-legal insights of the *Sushruta* and *Charaka Samhitas*. The study highlights how ancient Indian jurisprudence employed epistemological categories like *pramāṇa* (means of valid knowledge), *sākṣya* (witness testimony), and *anveshana* (investigation) as proto-forensic tools. The *Garuda Purana* delineated procedures resembling autopsy, wound classification, and toxicological analysis suggesting a remarkably early integration of medical expertise into judicial processes.[69] The philosophical substratum of these practices was grounded in the Vedic ideal of *Ṛta* the cosmic principle of truth and order which evolved into *Dharma* (moral law) and *Nyāya* (justice). By revisiting these texts through the lens of modern forensics, this

review aims to reconstruct India's indigenous forensic framework where truth was not merely empirical but ethical, and investigation was as much a spiritual responsibility as a legal one. Such interdisciplinary exploration may contribute to a more ethically anchored model of forensic science education and research in contemporary India.

KEYWORDS: Ṛta, Dharma, Forensic Science, Smriti, Purana, Dharmashastra, Ayurveda, Justice, Evidence, Toxicology.

INTRODUCTION

The pursuit of truth and justice is among humanity's oldest endeavours. In India, these ideals found expression through *Dharma* a multidimensional concept encompassing law, ethics, and cosmic order. Ancient Indian literature, particularly the *Puranas*, *Smritis*, and *Dharmashastras*, reveals systematic approaches to investigation, evidence, and judgment that parallel modern forensic thought.[1]

Texts such as the *Manusmriti*[2], *Yajnavalkya Smriti*[3], and *Narada Smriti*[4] describe the collection and verification of evidence (*pramāṇa*), examination of witnesses (*sākṣya*), and investigation (*anveshana*) principles that resonate strongly with the foundational tenets of forensic science. The *Garuda Purana*[5] even discusses the stages of human decomposition, the signs of poisoning, and moral consequences of wrongful acts revealing an early comprehension of forensic pathology and toxicology.

The *Sushruta Samhita* provides a medical dimension to these forensic insights. In its *Sharira Sthana* and *Chikitsa Sthana*, Sushruta elaborates the classification of wounds (*vrana bheda*), examination of injuries (*vrana pariksha*), and determination of the weapon used.[6] These descriptions exhibit the foundations of forensic traumatology and wound analysis. Likewise, *Charaka Samhita* underlines the moral duty of physicians to report truthfully in cases involving poisoning or suspicious death, reinforcing the ethical role of medical testimony.[7]

Kautilya's *Arthashastra*[8], though primarily a treatise on statecraft, also deals with methods of investigation, interrogation, and detection of crime. It describes the systematic gathering of evidence, punishment proportionality, and techniques to discern truth from deceit anticipating several investigative methods of modern criminology.

The *Dharmashastra* literature treated crime not merely as a social transgression but as a violation of cosmic order. It emphasized *intention* (*bhava*) alongside *action* (*karma*),

establishing a moral and psychological understanding of guilt centuries before Western legal philosophy began considering mens rea.[9] Thus, forensic inquiry in the Indian context was as much an ethical pursuit as it was empirical.

Recent scholars have revisited these ancient sources to highlight their proto-forensic relevance. Mehta[10] emphasized that the *Garuda Purana*'s descriptions of bodily decay parallel contemporary forensic pathology, while Sharma[11] correlated *Dharmashastra* judicial methods with modern criminal procedure. Together, these findings affirm that ancient Indian civilization nurtured a comprehensive understanding of the evidentiary process, truth verification, and medico-legal ethics.

This review, therefore, aims to
(1) Identify forensic concepts embedded in Puranic and Smriti literature,
(2) Correlate these ideas with modern forensic principles, and
(3) Explore how India's early jurisprudence fused medicine, morality, and justice under the unifying principle of *Dharma*.

Tracing these roots reveals that the essence of forensic science the pursuit of truth through systematic evidence was not imported into India but deeply rooted in her intellectual tradition.

I. Historical Background of Forensic Thought in Ancient India

The origins of forensic reasoning in India can be traced back to the Vedic period, where the concepts of *Ṛta* (cosmic order) and *Satya* (truth) formed the moral and metaphysical foundation for justice. The *Ṛgveda*[12] repeatedly invokes deities such as Varuṇa the upholder of truth and moral law symbolizing the earliest conceptual roots of ethical investigation and retribution. This Vedic perception of universal law laid the groundwork for later juridical systems where truth determination became both a spiritual and procedural pursuit.[13]

As civilization advanced into the post-Vedic era, the Dharmashastra corpus systematized these moral principles into practical codes of conduct and legal administration. *Manusmriti*[14] categorized crimes (*aparādha*), evidences (*pramāṇa*), and oaths (*sapatha*) with remarkable precision. It delineated the duties of the king, witnesses, and judges, paralleling the institutional roles of modern forensic and judicial frameworks. Similarly, *Yajnavalkya Smriti*[15] elaborated procedures for examination of witnesses and use of circumstantial

evidence—an early acknowledgment of behavioral and material indicators used in today's forensic investigations.

The Arthashastra of Kautilya[16] stands as a masterpiece of applied statecraft and early criminology. It prescribes methods for detecting deception, using informants, examining suspects through behavioral cues, and even testing the authenticity of documents. The text contains protocols for interrogation and classification of crimes illustrating an analytical, evidence-based state policing system remarkably similar to modern criminal investigation. Kautilya's treatment of poisoning (*visha*) and its detection further foreshadows the emergence of forensic toxicology.[17]

In parallel, Ayurvedic literature evolved a medical perspective on forensic matters. The *Sushruta Samhita*[18] elaborates wound identification and interpretation, noting features that distinguish accidental injuries from homicidal or suicidal wounds. It also discusses cadaveric changes, causes of death, and signs of vitality offering early insights into forensic pathology. The *Charaka Samhita*[19] prescribes moral duties for physicians when attending cases involving poisoning, unethical conduct, or violence, thereby establishing the ethical roots of medical jurisprudence.

The *Garuda Purana*[20] complements these texts by presenting vivid descriptions of the post-mortem journey of the soul (*preta gati*), body decomposition, and the physiological signs of death. Although couched in metaphysical language, its passages on the decay process exhibit empirical observation consistent with forensic decomposition stages.

During the Smriti and Puranic period, the concept of justice expanded beyond the material into the moral and metaphysical dimensions. The *Narada Smriti*[21] discusses judicial ethics and witness accountability, emphasizing the king's duty to uphold *Satya* (truth) above all else. This integrated ethical foundation gave Indian forensic thought its distinctive character: science was never divorced from morality, and justice was an act of cosmic alignment, not mere retribution.[22]

Thus, the evolution of forensic concepts in ancient India represents a continuum from Vedic metaphysics to Dharmashastric law, from Ayurvedic medicine to Arthashastric investigation. Each stage contributed a distinct layer to the composite idea of truth verification, laying the epistemological groundwork for the forensic sciences known today.

II. Forensic Correlations: Comparative Analysis of Ancient Texts and Modern Concepts

The examination of ancient Indian literature reveals that several principles foundational to modern forensic science were already conceptually articulated in classical texts. From wound interpretation to toxicological awareness and ethical testimony, the integration of medicine, morality, and legal reasoning was deeply embedded in India's knowledge systems.

1. Forensic Pathology and Wound Interpretation

The *Sushruta Samhita* stands as a cornerstone for understanding the anatomical and pathological aspects of forensic medicine. In *Sharira Sthana*, Sushruta classifies wounds (*vrana bheda*) into incised, contused, punctured, and lacerated types, describing features such as bleeding pattern, depth, and margin.[23] These distinctions parallel modern forensic classifications of injuries sharp, blunt, and mixed trauma.[24] Sushruta further differentiates between ante-mortem and post-mortem injuries by assessing tissue reaction and coloration—centuries before formal pathology emerged as a discipline.

The *Charaka Samhita* also provides medico-ethical guidance for physicians dealing with injuries resulting from assault, emphasizing careful observation and truthful reporting.[25] The Ayurvedic focus on *pratyaksha pramana* (direct perception) and *yukti* (rational inference) aligns closely with the empirical principles of forensic examination.

2. Toxicology (Visha Vijnana) and Early Forensic Chemistry

Ayurveda's *Agada Tantra* the branch dealing with poisons constitutes one of the earliest systems of toxicological knowledge. *Charaka Samhita* and *Sushruta Samhita* both categorize poisons into *sthavara* (plant/mineral origin) and *jangama* (animal origin) and describe symptoms, antidotes, and detection methods.[26] The identification of toxins through changes in skin color, pulse, respiration, and ocular signs parallels modern clinical toxicology.[27]

In *Arthashastra*, Kautilya provides detailed state protocols for detecting poisoning and punishing poisoners[28], illustrating administrative recognition of forensic toxicology as a state concern. Modern poison detection methods, such as chemical assays, reflect the same investigative ethos truth derived from material evidence.

3. Legal Medicine and Judicial Evidence

The *Smritis* and *Dharmashastras* outlined early models of evidence law and testimony. *Manusmriti* (Chapter VIII) defines four means of proof: *lekhya* (documentary), *sakshya* (witness), *bhukti* (possession), and *pratyaksha* (direct observation).[29] These correspond closely with the four pillars of modern legal evidence: documentary, testimonial, material, and direct evidence.[30]

The *Narada Smriti*[31] elaborates on the credibility of witnesses, grounds for disqualification, and moral obligation to speak truth. It prescribes punishment for perjury, aligning with the ethical framework of modern judicial practice. The emphasis on *satya* (truth) and *dharma* (righteousness) ensured that forensic investigation remained anchored in moral accountability.

4. Death Investigation and Post-Mortem Observation

The *Garuda Purana*'s *Pretakalpa* section provides observational descriptions of post-mortem changes such as pallor, rigidity, and decomposition that bear striking resemblance to modern forensic pathology's stages of death.[32] These references, while spiritually framed, suggest empirical observation of cadaveric changes and temporal sequence.

In modern terms, these observations correspond to pallor mortis, rigor mortis, and putrefaction. Such parallels indicate that ancient Indian scholars systematically studied death not only as a metaphysical transition but as a biological process with observable, verifiable signs.[33]

5. Ethics, Intention, and Psychological Evaluation

Perhaps the most profound contribution of ancient Indian forensic philosophy lies in its moral psychology. The *Dharmashastras* recognize *bhāva* (intention) and *kārya* (action) as separate evaluative categories[34] anticipating the modern legal distinction between *mens rea* and *actus reus*. The judicial assessment of motive, anger, deceit, or negligence reflects a sophisticated understanding of human behavior and criminal psychology.

Modern forensic psychology, which interprets behavior and cognition in relation to criminal acts, thus finds an early philosophical ancestor in India's ancient legal codes.[35] The ethical integration of science and morality in these texts ensures that investigation remains not just factually correct but morally sound.

III. Forensic Correlations: Comparative Analysis of Ancient Texts and Modern Concepts

The forensic worldview of ancient India, though wrapped in spiritual idioms, reveals an astoundingly empirical understanding of evidence, observation, and justice. The conceptual parallels between *Anveshana* (investigation), *Sākṣya* (evidence), *Vranaparīkṣā* (wound examination), and *Vishavijnāna* (toxicology) show that the ancients were not merely moral philosophers—they were early forensic thinkers who viewed truth as something to be examined, not merely believed.

1. Wound Examination and Forensic Pathology

The *Sushruta Samhita* offers one of the earliest structured frameworks for examining wounds *Vranaparīkṣā Adhyaya*.[36] Sushruta classifies wounds based on causative instruments sharp, blunt, pointed, or rough corresponding to the categories of incised, lacerated, punctured, and abrasion wounds in modern forensic pathology. His focus on wound edges, coloration, discharge, and depth is a precursor to today's medico-legal wound analysis.[37] Moreover, his differentiation between *agantuja* (external) and *nijaja* (internal) injuries demonstrates an early understanding of the forensic principle distinguishing trauma origin.

2. Death Determination and Post-mortem Study

Both the *Sushruta Samhita*[38] and *Garuda Purana*[39] contain descriptions of *mrita-lakshana* (signs of death), reflecting keen empirical observation. The mention of body pallor, cessation of respiration, and stiffness mirrors modern parameters like pallor mortis, asphyxia signs, and rigor mortis. The *Garuda Purana's* detailed account of *shava-parīkṣā* (corpse examination) reads almost like a proto-thanatology, describing bodily decomposition in stages that align with forensic literature.[40]

3. Poisons and Early Toxicology

The science of *Vishavijnāna* toxicology finds mature expression in the *Charaka Samhita*[41] and the *Arthashastra*.[42] Charaka presents clinical symptom clusters of poisoning vomiting, tremors, discolored eyes, and pulse irregularities forming the diagnostic base of Ayurvedic toxicology. Kautilya, on the other hand, approaches poison from a state-security lens: describing detection of adulterated foods, use of animal testing, and counter-poison measures. His protocols, astonishingly, prefigure experimental toxicology and forensic investigation methods.[43]

4. Witness Testimony and Forensic Psychology

The *Manusmriti*[44] and *Narada Smriti*[45] together form a psychological map of truth assessment. Both emphasize the observation of non-verbal cues body language, hesitation, tone, and consistency—while examining witnesses. The classification of truthful (*satya*) versus false (*mithya*) testimony, and their ethical implications, mirrors modern forensic psychology's analysis of credibility and perjury.[46] These texts were, in essence, the earliest manuals on behavioral forensics, guided by moral, not mechanical, detectors.

5. Crime Detection and Investigative Strategy

The *Arthashastra*'s chapters on *Gudhapurusha Vyavahara* (use of secret agents) and *Chara Vyavastha* (spy systems) exemplify the integration of intelligence, observation, and logic in crime detection. Kautilya's methodical examination of suspects' possessions, demeanor, and prior behavior prefigures modern investigative profiling. His insistence that "proof must precede punishment" captures the heart of today's criminal jurisprudence.[47]

6. Medical Ethics and Juridical Responsibility

Ayurveda and Dharmashastra together weave the ethical foundation of forensic medicine. *Charaka Samhita*[48] stresses truthfulness (*satya-vrata*) and impartiality in physicians principles that mirror modern medico-legal ethics. Similarly, *Yajnavalkya Smriti*[49] mandates the king and judicial officers to maintain neutrality and moral integrity concepts central to the modern forensic and judicial systems.[50]

Collectively, these texts dismantle the modern misconception that forensic science is an entirely Western innovation. The Indian forensic tradition rooted in *Dharma*, refined through *Nyaya* (logic), and expressed in *Anveshana* (investigation) reflects a timeless continuity between ancient moral inquiry and contemporary scientific truth-finding.

IV. Integration of Ancient Wisdom into Contemporary Forensic Science: Lessons and Applications

The wisdom embedded in ancient Indian texts transcends time, offering enduring frameworks that remain relevant to modern forensic education, ethics, and jurisprudence. What appears, at first glance, as scriptural or mythological, upon closer examination, reveals a rational core a vision where moral discernment and empirical observation form two sides of the same coin.

1. Philosophical Integration: Dharma as the Core of Forensic Ethics

Modern forensic science often grapples with the problem of objectivity without moral compass. Ancient Indian thought bridges this divide through *Dharma* the principle of righteous order that governs conduct and inquiry alike. In *Manusmriti*[51], *Dharma* is not a mere religious precept but the ethical substratum for every investigation of truth. This correlates directly with modern forensic ethics, where impartiality, integrity, and non-maleficence are the bedrock of professional conduct.[52]

By embedding *Satya* (truth) as the ultimate forensic ideal, ancient jurisprudence recognized that evidence devoid of ethics is a dangerous weapon. Integrating this dharmic framework into forensic pedagogy could thus nurture professionals who are not just technicians of truth, but its custodians.

2. Pedagogical Application: Revisiting Classical Texts in Modern Forensic Curriculum

Incorporating classical Indian literature *Arthashastra*, *Sushruta Samhita*, *Garuda Purana*, and *Dharmashastra* into forensic science education would enrich students' comprehension of the epistemological evolution of evidence-based reasoning. For instance, *Sushruta's* section on *Vrana Parīkṣā* offers parallels for modern medico-legal autopsy, while Kautilya's crime investigation methods serve as early case studies in criminology and surveillance science.[53]

Institutions like the National Forensic Sciences University could develop elective modules such as "Ancient Forensic Traditions of India," where students analyze primary Sanskrit sources alongside modern methodologies thus cultivating cross-cultural scientific literacy. Such integrative education embodies *Trividha Shuddhi* purity of thought, action, and purpose.[54]

3. Legal Relevance: Harmonizing Dharmashastra Principles with Modern Law

The *Narada Smriti*'s emphasis on procedural fairness (*yathā-nyāya-vyavahāra*) and *Arthashastra's* investigative rigor can offer valuable historical perspectives to India's contemporary legal frameworks.[55] Principles like *Pratyaksha Pramāṇa* (direct evidence) and *Anumāna Pramāṇa* (inference) correlate with today's evidentiary hierarchy in the Indian Evidence Act of 1872. Recognizing these connections helps legal scholars trace continuity rather than rupture between ancient Indian jurisprudence and modern forensic law.[56]

Such harmonization is not a call for revivalism, but for recontextualization reclaiming indigenous intellectual heritage as part of the global history of forensic thought.

4. Scientific Perspective: Re-examining Ayurvedic Toxicology and Pathology

Ancient toxicological observations especially in *Agadatantra* could be re-evaluated through modern biochemical and forensic lenses. For example, *Charaka's* classification of poisons as *sthāvara* (plant-based) and *jangama* (animal-based) corresponds to present-day distinctions in toxicokinetics. Bridging Ayurvedic pharmacology with forensic toxicology could inspire interdisciplinary research on natural antidotes and biochemical markers.[57]

Similarly, the *Sushruta Samhita's* cadaveric studies could inform medical anthropology and historical anatomy, illustrating that observation and dissection were part of India's scientific heritage long before Western anatomical exploration.[58]

5. Ethical Training: Restoring the Soul of Forensics

In the pursuit of digital precision and chemical accuracy, the humanistic dimension of forensics is often neglected. Ancient Indian wisdom insists that knowledge (*vidyā*) without virtue (*sadācāra*) is incomplete. As *Yajnavalkya Smriti*[59] states, "He who judges without restraint of mind destroys the realm of justice itself." Reintegrating these ethical aphorisms into forensic training can restore the moral center of a profession that stands at the crossroads of truth and power.

The synergy between ancient wisdom and modern science is not a mere intellectual curiosity it is a philosophical necessity. Forensic science, at its core, is the pursuit of *Satya*, and ancient Indian texts remind us that truth must be pursued not only through instruments and autopsies but also through integrity and self-awareness. Bridging the two eras can therefore enrich not only the *methods* of forensics but the *morality* that sustains it.

V. Conclusion: From Ṛta to Reason- Reclaiming the Moral Axis of Forensic Science

The story of forensic science in India does not begin with the microscope or the courtroom; it begins with *ṛta* the Vedic principle of universal order that governs truth, justice, and existence itself. Ancient Indian civilization understood that truth was not merely an evidentiary fact but a moral force that sustains the cosmos. Every act of judgment, every investigation into wrongdoing, was thus an act of restoring equilibrium a sacred duty as much as a scientific pursuit.

In modern times, forensic science has become an emblem of rational precision, yet it often suffers from a moral anemia an excessive reliance on instruments at the cost of introspection. The ancient seers remind us that *Satya* (truth) is not something found under a microscope; it is something perceived through the alignment of intellect (*buddhi*), ethics (*dharma*), and intention (*bhāva*).

1. Bridging the Temporal Divide

The convergence of ancient Indian jurisprudence and contemporary forensic methodology reveals not a conflict, but continuity. The principles that once guided *Rājadharma* the king's moral duty to uphold justice now echo through modern constitutional law and forensic protocols. Ancient procedures of evidence evaluation, witness examination, and oath-taking may seem ritualistic, yet they symbolized the deeper psychological truths of human accountability.[61]

By re-examining these traditions, we rediscover the ethical grammar of justice one that respects both human dignity and empirical inquiry.

2. Toward an Ethico-Scientific Paradigm

Forensic science must evolve not just technologically but philosophically. The integration of *Dharmaśāstric* ethics, *Ayurvedic* forensics (*Agadatantra*), and modern legal science can give rise to what might be called an *Ethico-Scientific Paradigm* where truth is pursued with technical precision but anchored in moral purpose. This approach aligns with UNESCO's call for the decolonization of scientific education and the incorporation of indigenous epistemologies.

If science is to serve humanity, it must not only answer *how* crimes happen, but also *why truth matters*.

3. Re-envisioning Forensic Education in India

Institutions must therefore transcend the rote teaching of autopsy reports and toxic tables. A holistic forensic curriculum would weave together ancient Indian perspectives on justice, karma, and mental intent (*manonigraha*) with contemporary criminological theory and psychological profiling.

Such integration would nurture professionals who are not merely experts in laboratory analysis but also custodians of ethical discernment a generation of scientists who can interpret both *evidence* and *essence*.

4. Philosophical Reflection: The Circle of Truth

From *ṛta* (cosmic truth) to *satya* (human truth) and *nyāya* (judicial truth), India's intellectual evolution forms a continuum of inquiry one that honors both divine order and rational reasoning. Modern forensics, in its deepest sense, is the rediscovery of this continuum. It is the art of bringing invisible realities into light much like the sages did through intuition, and scientists now do through instruments.

When the scalpel of science is guided by the lamp of wisdom, every investigation becomes an act of restoration a return from chaos to order, from ignorance to awareness, from suspicion to truth.

5. The Way Forward

India's forensic community stands at a crucial juncture. To reclaim its intellectual sovereignty, it must integrate its ancient philosophical foundations with the latest technological advancements genomics, AI-based crime analytics, and digital forensics. In doing so, it would not merely modernize but *indigenize* the science of truth giving it both ethical depth and cultural resonance.

Forensic science thus emerges not as a sterile pursuit of proof, but as a sacred discipline rooted in the eternal vow of *ṛta*: "Let truth alone triumph" *Satyameva Jayate.*

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