



# Concept Of Genetic Disorders In Ayurveda

## W.S.R To *Beeja Dosha*

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### Abstract

Genetic disorders present a major clinical and public health challenges worldwide, contributing significantly to pediatric morbidity, congenital abnormalities, and long-term disability. In Ayurveda, such hereditary or inborn errors are described under the broad concept of *Bīja Doṣa*. The term “*Bīja*” refers to the reproductive seed, encompassing both male (*Śukra*) and female (*Śoṇita*) gametes. The detailed sub-classification of *Bīja*, *Bījabhāga* (organ-specific segments), and *Bījabhāgāvayava* (microscopic or sub-organ parts) describes about genetic transmission and organogenesis.

The development of a healthy embryo is said to depend on the harmonious functioning of *Ritu* (optimal timing), *Kṣetra* (suitable uterine environment), *Ambu* (nutritive factors), and *Bīja*. Among these, *Bīja* holds central importance as the carrier of inherited physical, mental, and behavioural traits. Ayurveda not only addresses hereditary pathology through conceptual frameworks but also lays strong emphasis on preventive measures such as *Śhodhana*, *Garbhādhāna Saṃskāra*, *Pumsavana Karma*, *Rtucaryā*, *Rasāyana* therapy, and ethical code of conduct (*Sadvṛtta*).

This paper aims to delve into the Ayurvedic understanding of genetic disorders, explore the role of *Bīja Doṣa* in the context of classical embryology and reproductive physiology, and correlate these with modern genetics, including Chromosomal abnormalities and gene mutations. A conceptual bridge is built to integrate traditional insights with contemporary biomedical knowledge, and strategies for pre-conceptual and antenatal preventive approaches rooted in Ayurvedic classics are discussed.

**Keywords:** *Bīja Doṣa*, Genetics, *Bīja*, *Bījabhāga*, *Bījabhāgāvayava*, Preventive measures.

## 1. Introduction

Genetic science deals with study of genes, DNA, mutations, and heredity. It established many diseases deals with simple congenital anomalies like cleft palate to complex disorders like diabetes mellitus and cancer caused due to errors or variations in the genetic code. In Ayurveda the concept of *Bīja Doṣa* forms foundation for understanding of inherited disorders. The term “*Bīja*” refers not only to the gametes (sperm and ovum) but to the inherent potential within these units to shape various organs and physiological traits of the offspring. Any derangement in *Bīja* or its functional components *Bījabhāga* (Organ-specific components of the *Bīja*) and *Bījabhāgāvayava* (Micro-components or sub-parts responsible for structural features) can lead to abnormalities in the corresponding structures and functions in the child.<sup>1</sup>

These abnormalities may not be immediately visible at birth. They can manifest later in life as structural deformities, metabolic disorders, reproductive inefficiencies, or mental illnesses. This spectrum mirrors the modern concept of genetic disorders, which are caused either by inherited mutations, chromosomal deletions, duplications, or by errors during gene transcription and protein synthesis.

Ayurveda recognize that not all disorders are acquired during an individual's lifetime. Some originate in the pre-natal period due to the vitiation of reproductive material (*Bīja Doṣa*). The quality of *Bīja* is affected by various factors such as unwholesome diet-psychological status (*Matru Ahara* and *Vihara*), karmic background (*Atma Karma*), seasonal imbalances (*Kala Dosha*) and structural defect (*Ashaya Dosha*).<sup>2</sup>

Furthermore, Ayurveda goes beyond merely identifying these anomalies. It explains preventive measures at different stages before conception (*Garbhādhāna Saṃskāra*), during gestation (*Garbhīṇī Paricaryā*), and even during pre-adolescence (*Saṃskāra* rituals like *Upanayana*). These interventions aim at purifying the reproductive tissues, ensuring mental and moral preparedness of the parents, and optimizing intrauterine development.

This article attempts to revisit the concept of *Bīja Doṣa* from a modern lens and establish a bridge between Ayurvedic reproductive biology and genomic science, drawing on both classical literature and modern medical research.

## 2. Aims and Objective

- To understand the concept of genetic disorders in Ayurveda.
- To comprehensively analyse and correlate genetic disorders with *Beeja Dosha*.

## 3. Materials and Methods

This article is a conceptual review, designed to explore the Ayurvedic perspective on genetic disorders with reference to *Bīja Doṣa* and its correlation with modern genetics. The study was conducted using traditional Ayurvedic texts, classical commentaries, and contemporary biomedical literature.

## 4. CONCEPT OF GENETICS IN AYURVEDA

### 4.1 Sex Determination

Sex determination, a key aspect of genetics, is addressed in both classical Ayurvedic and modern biomedical sciences through different lenses.

#### 4.1.1 Ayurvedic Perspective

Ayurveda proposes that the sex of the fetus is determined by:

- **Dominance of gametes:** If the *Śukra* (male factor(Y)) dominates, a male child is born; if *Śonita* (female factor(X)) dominates, a female is born.<sup>3</sup>

#### 4.1.2 Modern Perspective

Modern science attributes sex determination primarily to chromosomal pairing:

- XX → Female
- XY → Male

The presence of a Y chromosome, specifically the SRY gene (Sex-Determining Region Y), initiates male differentiation. Absence or dysfunction of this gene may lead to disorders of sexual development (DSD), including conditions like Androgen Insensitivity Syndrome (AIS).

#### 4.2 Organ Formation (*Āngāvayava Utpatti*)<sup>4</sup>

The formation of body parts (*Āngas* and *Upāngas*) from the embryo is explained in detail in Ayurvedic classics and corresponds in modern terms to organogenesis.

- The fetus contains all body components (*Āngāvayava*) in a subtle, potential form from the moment of conception.
- These components emerge through the influence of ***Mahabhūtas*** (five elements) and ***Doṣas*** (vital bio-energies).
- The contributions of ***Bījabhāga*** and ***Bījabhāgāvayava*** decide the formation and perfection of specific organs and structures.

“When the part of *Bīja* responsible for a particular organ is defective, that organ is either malformed or absent in the progeny<sup>1</sup>.”

This aligns closely with **gene-specific developmental biology** where mutations in organ-specific genes can result in congenital anomalies like:

- **Polydactyly** (GLI3 gene mutation)
- **Cleft palate** (TGF-beta mutations)
- **Congenital heart defects** (NKX2-5 gene mutations)

Attributes such defects to faulty ***Bījabhāga*** or partial damage to ***Bījabhāgāvayava***.

#### 4.3 Concept of *Bīja*, *Bījabhāga*, and *Bījabhāgāvayava*<sup>5</sup>

Ayurveda's detailed understanding of **inheritance** is reflected in its systematic classification of the reproductive material into three conceptual layers:

1. ***Bīja*** (Seed)
2. ***Bījabhāga*** (Seed-part)
3. ***Bījabhāgāvayava*** (Sub-part of the seed)

These components represent a foundational Ayurvedic understanding of **genotype**, while the individual's expressed traits (like body structure, mental disposition, or immunity) correspond to the **phenotype**, which Ayurveda evaluates through the concept of ***Prakṛti*** (psychosomatic constitution).

##### 4.3.1 *Bīja* -The Genetic Seed

“*Bīja*” refers to the entire reproductive seed both male (*Śukra*) and female (*Śoṇita*) contributions. It contains the entire genetic information necessary for the development of the progeny. ***Bīja*** is analogous to **gametes** (sperm and ovum), each carrying **haploid genetic material**, which combines to form a diploid zygote upon fertilization.

#### 4.3.2 *Bījabhāga* -The Organ-Specific Part

“*Bījabhāga*” is that segment of *Bīja* which is responsible for the development of particular organs and body parts (*Āṅga-Pratyanga*). This concept aligns closely with **chromosomal segments or genes** that determine the development of organs during embryogenesis. For example a functional segment (*Bījabhāga*) may direct the formation of eyes, limbs, heart, or brain.

#### 4.3.3 *Bījabhāgāvayava* - The Microstructural Part

“*Bījabhāgāvayava*” refers to the finer subdivisions of *Bījabhāga*, responsible for the **initiation and regulation of any functions/organs**. This is similar to the concept of:

- **Gene loci:** specific physical locations of genes on chromosomes
- **Exons/introns:** coding and regulatory regions
- **Promoter regions:** DNA sequences that control gene expression

**Table 1:** Ayurvedic Term & Modern Genetic Correlation

Ayurvedic Term	Description	Modern Genetic Correlation
<i>Bīja</i>	Reproductive material ( <i>Śukra &amp; Śonita</i> )	Gametes (sperm and ovum)
<i>Bījabhāga</i>	Organ-forming components of <i>Bīja</i>	Genes / chromosomal segments
<i>Bījabhāgāvayava</i>	Sub-parts of <i>Bījabhāga</i> , regulating microstructures	Gene loci / promoters / DNA motifs / codons

### 5. CONCEPT OF *BĪJOPATĀPTA* (*BĪJA DOSA*) AND ITS DISORDERS

The term *Bījopatāpta* refers to disturbances in the reproductive seed (*Bīja*), which lead to congenital deformities or hereditary diseases. This concept aligns with **genetic mutations, chromosomal aberrations, and inborn errors of metabolism**. When either the *Śukra* (sperm) or *Śonita* (ovum) is defective, or if specific portions like the *Bījabhāga* (organ-determining segment) or *Bījabhāgāvayava* (micro component) are impaired, it results in disorders affecting the progeny's structure, function, or both.<sup>1</sup>

#### 5.1 *Nidāna* (Causative Factors)

**Table 2:** Etiological factors responsible for *Bīja Dosa* Ayurvedic and modern correlation

Ayurvedic	Modern
<i>1. Tulyagotra Vivāha</i>	Consanguineous marriage increases chances of autosomal recessive disorders
<i>2. Kulajā Sañcārīroga</i>	Familial genetic disorders (e.g., hemophilia, thalassemia)
<i>3. Asamyak Garbhopacāra</i>	Improper prenatal care- lack of antenatal care, teratogen exposure
<i>4. Asātmya Āhāra/Vihāra</i>	Incompatible diet/lifestyle-Nutritional deficiencies, substance abuse
<i>5. Viruddhāhāra Sevana</i>	Incompatible foods-Mutagenic/toxic dietary habits (e.g., alcohol during pregnancy)
<i>6. Pūrvakṛta Karma</i>	Past-life deeds -Spiritual cause
<i>7. Mātr-Pitr Apacāra</i>	Psychosocial factors(Disrespect toward parents)
<i>8. Śukra Dosa due to systemic disease</i>	Genetic mutations due to chronic infections, toxins, or radiation

These causative factors affect the quality of *Bīja* either directly (as in structural damage to gametes) or indirectly (through *Dosha* imbalance, karmic factors, or lifestyle choices).

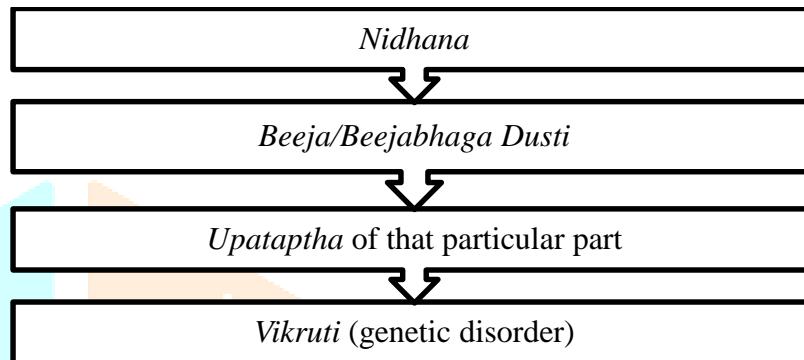
## 5.2 *Samprapti* (Pathophysiology)<sup>1</sup>

“**Yasya yasya hi aṅgāvayavasya bije bijabhāga upataptah bhavati,  
Tasya tasya aṅgāvayavasya vikṛtir upajāyate**” (Ca. Śā. 3/17)

When the *Bijabhāga* (gene-like part) responsible for a specific organ is defective, that organ becomes malformed.

*Upatāpta* here is interpreted as:

- Mutation (DNA sequence alteration)
- Chromosomal aberration
- Epigenetic



## 5.3 Classical Descriptions of Congenital Anomalies

Several hereditary and congenital conditions are described in the Ayurveda, though not grouped under a single label like “genetics.” These include:

- *Sahaja Prameha*: A condition similar to Type 1 Diabetes Mellitus, inherited from parents
- *Sahaja Kustha*: Chronic skin disorders with familial trends
- *Sthoūlya*: Obesity or metabolic disorders, passed through generations
- *Vandhyatva*: Infertility caused by defective *Bija* or uterine malformation

The *Aṣṭāṅga Hṛdaya* also discusses *Śāṅḍatva* (genital ambiguity or eunuch-like conditions) in relation to disturbances during intrauterine development and inherited defects.

## 5.4 *Strī Vyāpad* (Female Genetic Disorders)<sup>6</sup>

**Table 3:** Genetic Disorders in women caused by defects in *Śonita Bija* its subcomponents & Modern Correlation

Ayurvedic Diagnosis	Cause	Modern Correlation
<i>Vandhyā</i>	<i>Dusti</i> in <i>Bijabhāga</i> for uterus development	Müllerian agenesis / Uterine hypoplasia
<i>Pūtiprajā</i>	Mutation in <i>Bijabhāgāvayava</i> (toxic or nonviable pregnancy outcome)	Teratogenic embryopathy/ spontaneous abortion
<i>Vārtā</i>	Partial mutation in female body determining genes	Androgen insensitivity/Intersex phenotype

### 5.5 *Puruṣ Vyāpad* (Male Genetic Disorders)<sup>7</sup>

**Table 4:** Genetic Disorders in men caused by defects in *Śukra Bīja* its subcomponents & Modern Correlation

Ayurvedic Diagnosis	Cause	Modern Correlate
<i>Vandhyā</i>	Defect in Y-chromosome related <i>Bījabhāga</i>	Non-obstructive azoospermia/Y-deletion syndromes
<i>Pūtiprājā</i>	Mutation in <i>Bījabhāgāvayava</i>	Teratospermia/gene mutation affecting spermatogenesis
<i>Tṛṇaputrika</i>	<i>Dusti</i> in male body determining genes (e.g., androgen pathway)	Partial androgen insensitivity syndrome (PAIS)

### 5.6 *Śanda Prakāra* -DSD (Disorders of Sexual Development/Types of Intersex or Eunuch Conditions)<sup>8</sup>

**Table 5:** *Śanda Prakāra*, causes & it's Modern Correlation

Type	Cause (Ayurveda)	Modern Correlation
<i>Dwirēta</i>	Equal defective <i>Bījabhāga</i> of <i>Śukra</i> and <i>Śoṇita</i>	Complete AIS (Androgen Insensitivity Syndrome)
<i>Pavanendriya</i>	Vitiated <i>Vāta</i> during fetal development affecting testes	Klinefelter Syndrome (47,XXY) causing Azoospermia
<i>Saṁskāravāhi</i>	Mutated <i>Śukraśaya</i> gene expression → poor sexual urge	Anaphrodisia / Hypogonadism
<i>Narashanda</i>	Weak male <i>Bīja</i> ; no sexual urge or arousal	XY genotype with female phenotype / male pseudo hermaphroditism
<i>Narishanda</i>	Weak female <i>Bīja</i> ; no sexual urge or arousal	XX genotype with male phenotype / Female pseudo hermaphroditism
<i>Vakrī</i>	Vitiated <i>Bīja</i> due to non-conducive intercourse leading to deformity	Hypospadias (SRD5A2 mutation)
<i>Irṣyaka</i>	Sexual aversion due to disturbed mental state at conception	Neurotransmitter - gene linked libido disorders
<i>Vātika</i>	Vitiation of <i>Vāta</i> and <i>Agni</i> causing gonadal destruction	Testicular atrophy due to oxidative stress / endocrine disorders

### 6. Factors to Overcome *Bījopatāpta* (Precautionary Measures)

Prevention of genetic and congenital disorders through a series of ritual, behavioural, dietary, and lifestyle measures. These measures aim to purify and strengthen the reproductive elements (*Śukra* and *Śoṇita*), optimize the intrauterine environment (*Kṣetra*), and enhance the mental, physical, and spiritual readiness of both parents.

#### 6.1 *Upanayana Saṁskāra* and Ethical Education

One of the early life purificatory rituals, *Upanayana Saṁskāra*, plays a vital role in the education and moral grounding of a child. It is intended to instill values such as:

- *Dinacharyā* (daily routine),
- *Sadvṛtta* (righteous conduct),
- **Avoidance of Daśavidha Pāpa Karma** (ten sinful acts).

This foundational training ensures that individuals adopt a lifestyle conducive to reproductive health and are mindful of the consequences of their actions, especially as they enter marital and reproductive life.

Modern equivalents:

- **Sexual education**
- **Lifestyle coaching**
- **Pre-marital counselling**
- **Behavioural epigenetics** (how conduct influences gene expression)

## 6.2 *Rajaswalā Paricaryā* (Menstrual Discipline and Care)

Importance of regimen during menstruation for women (*Rajaswalā*). The physical and psychological status of a woman during her monthly cycle directly influences:

- The purity of *Artava* (ovum),
- Hormonal regulation,
- Ovulatory health,
- Fertility potential.

Recommended practices include:

- Observing rest and simplicity during menstruation
- Avoiding exertion, emotional stress, and indulgence
- Consumption of light, warm, and nourishing food

## 6.3 *Atulyagotra Vivāha*<sup>9</sup> (Genetic Diversity in Marriage)

It strongly discourages *Tulyagotra Vivāha*-marriage within the same lineage or clan (i.e. **consanguineous marriage**) which is a well-known risk factor for:

- **Autosomal recessive disorders**<sup>10</sup>
- **Congenital malformations**
- **Early miscarriages**

## 6.4 Ideal Age and Health of Parents

In Ayurveda<sup>11</sup>

- **Females should conceive after 16 years** (*Šođaśa Varṣa*)
- **Males should procreate after 25 years** (*Pañcavimśati Varṣa*)

This recommendation is based on:

- Full physical and mental maturity
- Optimal development of reproductive tissues
- Stable endocrine and immune systems

## 6.5 *Šuddha Šukra* and *Šuddha Artava* (Purified Gametes)<sup>12</sup>

The quality of gametes are achieved through the process of *śodhana* before conception further it enhanced and protected through **pre-conceptional** and **antenatal** care. This includes physical, mental, nutritional, and spiritual practices outlined below.

## 6.6 Pre-conception Care:

**Table 6: Pre-conception Care & its objectives**

Pre-conception Care	Objective
<i>Putrakāmeṣṭi Yajñā</i> <sup>13</sup>	Vedic ritual for righteous and capable progeny
<i>Pumsavana Karma</i> <sup>14</sup>	Performed in 2nd/3rd month to stabilize fetus and prevent disorders
Intake of <i>Vṛṣya Dravyas</i>	Aphrodisiac and gamete-enhancing herbs (e.g., <i>Aśvagandhā, Gokṣura</i> )
<b>Parental diet and regimen</b>	Ensures nourishment of <i>Śukra/Artava</i> ; enhances hormonal quality
<b>Mental preparedness</b>	Harmonious psychology during intercourse ensures subtle influences on genetics and behavior of fetus

## 6.7 Antenatal Care (*Garbhīṇī Paricaryā*):

**Table 7: Antenatal Care (*Garbhīṇī Paricaryā*) & its description**

Garbhīṇī Paricaryā	Description
<i>Mātūr Āhāra</i>	Balanced, nourishing diet rich in <i>Dhātu</i> -building components
<i>Mātūr Vihāra</i>	Lifestyle free from stress, exertion, and toxicity
Psychology during pregnancy	Stable and positive mental state prevents fetal <i>Doṣa</i> vitiation
<i>Garbhopaghatakara Bhāva</i>	Avoidance of physical, emotional, dietary, and environmental harms

## 7. Discussion

Ayurvedic understanding of hereditary disorders through the concept of *Bīja Doṣa* anticipates the roles of *Bīja* (gametes), *Bījabhāga* (chromosomes), and *Bījabhāgāvayava* (gene loci or regulatory elements) in the development of the embryo and expression of traits. The field of medical genetics has illuminated the mechanisms by which DNA, chromosomes, and genes govern the inheritance of traits and disease tendencies.

The discussion of inheritance in Ayurveda extends beyond biology into ethics, spirituality, and conduct, reflecting a holistic biopsychosocial model. It integrates the *Matrjā-Pitrjā-Bhāva* (maternal-paternal contributions), *Ātmā* (soul consciousness), *Satmya* (compatibility), and *Karma* (deeds from previous births) into a comprehensive understanding of genetic and congenital diseases.

The Ayurvedic understanding of congenital diseases is not only descriptive but also predictive and preventive. It focuses on identifying causative factors (*Nidāna*), and removing or minimizing risk through *Samāskāras* (purification), dietary regulation, and behavioral conduct.

The genetic outcomes in children depends on parental nutrition, emotional state, ethical behavior, and seasonal timing affect the reproductive cells and, consequently, the genetic outcomes in children. These concepts resonate with contemporary understanding in epigenetics, where external factors like environment, stress, toxins, and diet influence gene expression without altering DNA sequence.

The incorporation of ethical conduct, *Sadvṛtta*, and spiritual awareness reflects Ayurveda's commitment to nurturing not only healthy offspring but a virtuous generation. This goes beyond the molecular and engages the moral, social, and intergenerational responsibilities of health.

## 8. Conclusion

In light of the increasing global burden of genetic disorders and congenital anomalies, there is an urgent need to:

- Integrate Ayurvedic knowledge of *Bija Doṣa* into reproductive health programs
- Study and classify classical conditions with modern clinical equivalents
- Introduce genetics as a formal chapter in the Ayurvedic education curriculum
- Encourage research into Ayurvedic approaches to gene modulation, epigenetic regulation, and pre-conceptional care

Thus, Ayurveda provides not only a philosophical foundation but also practical, preventive, and therapeutic tools for addressing the challenges of hereditary disorders in the modern era.

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