

Genome India Health Protection Policy (GIHPP)

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1. Introduction

The Genome India Health Protection Policy (GIHPP) is a national-level healthcare initiative aimed at preventing, detecting, and managing genetic and hereditary diseases through advanced genomic technologies. The policy focuses on early diagnosis, ethical data usage, and equitable access to genetic healthcare services across India.

2. Objectives

- Establish a nationwide genetic screening framework.
- Promote early detection of inherited disorders.
- Support research and innovation in genomics and gene therapy.
- Ensure data privacy and ethical use of genetic information.
- Improve accessibility to genetic healthcare services.

3. Target Beneficiaries

- Newborns and pregnant women
- Individuals with a family history of genetic disorders
- Rare disease patients
- Public healthcare institutions and research organizations

4. Key Components

1. National Genetic Screening Program
2. Genome Data Repository & Research Platform
3. Genetic Counseling & Awareness Campaigns
4. Affordable Gene Therapy Access
5. AI-based Risk Prediction & Monitoring Systems

5. Implementation Strategy

The policy will be implemented in phases through collaboration between central and state governments, public hospitals, private diagnostic labs, and academic institutions. AI-driven platforms will be used for predictive analysis and decision support.

6. Budget Allocation (Indicative)

Component	Estimated Allocation (INR Crores)
Genetic Screening Infrastructure	2,500
Research & Genome Mapping	1,800

Data Security & IT Systems	900
Public Awareness Programs	400
Training & Capacity Building	600

7. Expected Outcomes

- Reduction in late-stage diagnosis of genetic diseases
- Improved national genomic database for research
- Enhanced public awareness of hereditary conditions
- Strengthened healthcare decision-making using AI

8. Conclusion

GIHPP represents a strategic move towards precision medicine and preventive healthcare. By integrating genomics with digital health infrastructure, the policy aims to build a healthier and genetically informed India.

This document is a simulated academic policy report created for educational purposes.