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### **Health Policy: One Nation & One Health to Achieve Sustainable Development**

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he "One Nation, One Health" policy framework represents a comprehensive and integrated approach to health, connecting human, animal, and environmental systems to tackle the complex and interconnected challenges of global sustainable development. This framework not only aligns with the United Nations Sustainable ENVIRONMENTAL Development Goals (SDGs) but also actively contributes to their achievement, particularly in advancing health

equity, promoting environmental

sustainability, and fostering global

partnerships. Global health crises,

such as the COVID-19 pandemic

and the rise of zoonotic diseases, have underscored the pressing need for unified strategies that transcend borders and sectors. Notable global initiatives, including the World Health Organization's establishment of the One Health High-Level Expert Panel (OHHLEP) and international frameworks addressing antimicrobial resistance (AMR), exemplify growing momentum for integrated health governance. These efforts highlight the significance of the "One Nation, One Health" approach in advancing critical SDGs, including poverty alleviation (SDG 1), good health and well-being (SDG 3), and climate action (SDG 13). The chapter proposes actionable strategies to strengthen governance, build capacity,

> Recommendations include the establishment of cohesive policy frameworks, interdisciplinary building in critical capacity sectors, and empowering local stakeholders to actively HEALTH

participate in health governance.

community

By adopting these measures, this chapter envisions a resilient and equitable future, characterized by sustainable health systems capable of addressing emerging global challenges while ensuring inclusivity and long-term progress.

### 1. Introduction

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Health is a cornerstone of sustainable development, fundamentally shaping poverty eradication, economic growth, and environmental sustainability. It encompasses physical, mental, and social well-being, extending beyond the mere absence of disease. Achieving health, however, is not an isolated endeavor—it demands structured, evidence-based strategies to address systemic inequities, optimize resource allocation, and respond to emerging threats. This necessity highlights the critical role of health policy.

### **Understanding Health Policy**

Health policy comprises a structured set of decisions, plans, and actions formulated by governments and stakeholders to achieve specific health-related goals. Unlike health outcomes, which reflect the lived experiences of individuals and populations, health policy focuses on establishing frameworks and systems to enable those outcomes. By defining priorities, allocating resources, and fostering multisectoral collaboration, health policy equips health systems to meet society's evolving needs effectively

### 2. The Need for Health Policy

Health policies are essential for addressing complex health challenges and ensuring equitable access to care. Key reasons include:

- 1. Coordination and Integration: Health policies facilitate the integration of human, animal, and environmental health systems. For example, the "One Nation, One Health" framework addresses interconnected challenges such as zoonotic diseases, antimicrobial resistance (AMR), and climate change by promoting a cohesive approach.
- 2. **Equity and Accessibility**: Effective policies reduce disparities in healthcare access, ensuring that

- marginalized communities receive the care they need.
- 3. Adaptation to Global Threats: From pandemics to environmental degradation, health policies enable nations to adopt proactive, resilient strategies to mitigate risks and respond effectively.
- 4. Alignment with Global Goals: Health policies align national priorities with international frameworks like the United Nations Sustainable Development Goals (SDGs), advancing shared objectives such as good health and well-being (SDG 3) and climate action (SDG 13).

### 3. Defining One Health and One Nation

The One Health concept recognizes the interconnectedness of human. animal, and environmental health, emphasizing that the well-being of each is inseparably linked. Its foundation lies in addressing zoonotic diseases—diseases transmissible between animals and humans—and mitigating their public health impacts. Over time, the scope of One Health has expanded to encompass environmental health, reflecting the intricate interactions between ecosystems and public health.

The One Nation, One Health framework builds on the One Health principles, advocating for a cohesive, national-level policy approach that integrates human, animal, and environmental health systems. It emphasizes multisectoral collaboration and coordinated governance to tackle complex, interlinked health challenges.

# 4. The "One Nation, One Health" Framework: An Integrated Approach

The "One Nation, One Health" framework exemplifies a unified policy strategy rooted in the One Health paradigm, which recognizes the interconnectedness of ecosystems. By fostering multisectoral collaboration, this framework integrates efforts across public health, veterinary science, environmental conservation, and governance. It addresses critical challenges, including:

- Zoonotic Disease Prevention: Reducing the risk of diseases that spread between animals and humans.
- Combating AMR: Developing strategies to mitigate the rise of antimicrobial resistance.
- Climate Resilience: Addressing health impacts arising from environmental changes.

This integrated approach ensures that health policies are not only inclusive but also adaptive to emerging global health threats, thereby contributing to a sustainable and equitable future. By aligning health systems with the SDGs and promoting multisectoral collaboration, the "One Nation, One Health" framework blueprint for achieving sets а comprehensive health outcomes across diverse populations and ecosystems.

### 5. Historical Evolution of One Health

The origins of One Health can be traced back to historical efforts linking human and animal health. Early milestones included the recognition of zoonotic disease transmission and the integration of veterinary and medical sciences. Over the years, as the global understanding of health systems deepened, environmental health became a critical component of One Health.

Internationally, the adoption of the One Health framework accelerated with the establishment of the

Tripartite Collaboration by the World Health Organization (WHO), the Food and Agriculture Organization (FAO), and the World Organization for Animal Health (WOAH). This initiative represents a landmark in coordinated global action, addressing health risks through collective responsibility and shared strategies.

Table 1: Evolution of the One Health Approach

Phase	<b>Key Focus</b>	Examples
Early	Recognition of	SARS, avian
2000s	zoonotic disease	influenza (H5N1)
	threats	
2010s	Formalization	WHO, FAO, OIE
	of One Health	tripartite
	frameworks	collaboration
2020-2023	Global urgency	Pandemic
(COVID-	for integrated	preparedness
19)	health responses	strategies
2024-	Strengthening	Climate change
Present	resilience	and health policy
	against health-	integration
	environment	
	threats	

## 6. One Health and Sustainable Development Goals (SDGs)

The principles of One Health align closely with the United Nations Sustainable Development Goals (SDGs), serving as a strategic framework for achieving several key targets:

• Good Health and Well-Being (SDG 3): By addressing zoonotic diseases, antimicrobial resistance (AMR), and emerging health threats, One Health ensures comprehensive health outcomes.

- Climate Action (SDG 13): The integration of environmental health highlights the importance of mitigating climate change impacts on ecosystems and health.
- Zero Hunger (SDG 2): Improved livestock and agricultural health contribute to food security and nutrition.
- Life on Land and Below Water (SDGs 14 and 15): Ecosystem health is essential for biodiversity conservation and sustainable resource use.

### 7. The Evolution of Health Policy in India

India's health policy landscape has been shaped by persistent challenges such as infectious diseases, malnutrition, and environmental degradation. Policies like the National Health Policy (2017) and programs such as Ayushman Bharat reflect the nation's commitment to achieving universal health coverage and addressing health inequities. These initiatives have laid the groundwork for integrating One Health principles into national strategies.

By adopting the "One Nation, One Health" approach, India can:

- Enhance Disease Prevention: Develop coordinated strategies to combat zoonotic diseases and AMR.
- 2. Strengthen Multisectoral Collaboration: Foster partnerships between health, agriculture, and environmental sectors.
- Accelerate Progress Toward SDGs: Align national health priorities with global sustainability objectives.
- 4. Environmental Degradation: Deforestation, pollution, and climate change exacerbate health

- risks, including vector-borne diseases and water scarcity.
- 5. Food Safety and Security: Strengthening food systems through sustainable agricultural practices and improved veterinary services is vital for ensuring nutritional security.
- Urbanization and Population Growth: Rapid urbanization and population pressures strain health systems, necessitating innovative and integrated solutions.

## Importance of One Health for Sustainable Development

The One Health framework is critical for addressing 21st-century challenges such as pandemics, climate change, and biodiversity loss. Its integration into national and global health policies can ensure resilient health systems, equitable access to care, and sustainable resource use. By adopting the "One Nation, One Health" vision, nations can build robust, inclusive, and adaptive health systems that not only respond to current health challenges but also contribute significantly to achieving the SDGs and fostering long-term sustainability

The One Nation, One Health framework represents a transformative vision for integrating human, animal, and environmental health systems. Rooted in the One Health approach, it emphasizes the interconnectedness of ecosystems and the importance of multisectoral collaboration. By addressing the root causes of health challenges, this framework not only promotes resilience and sustainability but also advances health equity and social justice by prioritizing inclusive and culturally relevant solutions.

**Table 2: Key Innovations in Health Policy** 

Innovation	<b>Description</b>	Impact
Vaccination	Development of	Eradication of
Programs	vaccines for	smallpox,
	disease	reduced polio
	prevention	cases
Telemedicine	Use of	Improved
	technology for	access in rural
	remote	and
	healthcare	underserved
	delivery	areas
Electronic	Digital storage	Enhanced
Health	of patient data	coordination
Records	for efficient	and reduced
	management	errors
One Health	Integration of	Proactive
Framework	human, animal,	disease
	and	control, focus
	environmental	on AMR
	health	
Health Equity	Addressing	Better health
Policies	disparities in	outcomes in
	access to care	marginalized
		groups

### 8. Case Studies and Best Practices

Several initiatives highlight the practical application and impact of the One Health framework in advancing equity and justice:

1. India's National Action Plan on AMR (2017-2021) A One Health approach was adopted to combat antimicrobial resistance (AMR) through improved surveillance, rational antibiotic use, and community awareness programs. This initiative

- underscores the importance of equitable access to safe and effective medications.
- 2. Rabies Elimination Program Collaborative efforts involving health, veterinary, and local governance sectors aim to eliminate human rabies deaths by 2030. The program emphasizes the importance of equity in vaccine distribution and access to preventive care.
- 3. Eco-Health in the Western Ghats Community-driven conservation programs in biodiversity hotspots illustrate the links between environmental health and human well-being, empowering local populations to participate in sustainable development.
- 4. Global Health Security Agenda (GHSA) India's active participation in the GHSA demonstrates its commitment to strengthening health systems and preparedness, ensuring marginalized communities are protected from emerging health threats.

### **Challenges to Implementation**

Despite its potential, the "One Nation, One Health" approach faces critical barriers that hinder its equitable implementation:

- 1. **Fragmented Governance** The lack of coordination among ministries and sectors creates silos, limiting the integration of health systems.
- Resource Constraints Financial and infrastructural limitations reduce the scalability of One Health initiatives, disproportionately affecting underserved regions.
- Data and Surveillance Gaps Weak surveillance systems and limited data sharing impede evidencebased policy decisions.

- 4. Awareness and Education Policymakers, professionals, and communities often lack understanding of One Health principles, delaying widespread adoption.
- 5. Cultural and Socio-economic Barriers

  Addressing inequities and traditional practices
  requires culturally sensitive and socially just
  approaches.

### 9. Policy Recommendations

To overcome these challenges, the following strategies are essential:

- Integrated Governance Framework Establish a national One Health commission to ensure coordinated efforts across sectors, levels of government, and stakeholders.
- 2. Strengthening Surveillance Systems Develop integrated disease surveillance networks encompassing human, animal, and environmental health, ensuring timely and equitable responses to health threats.
- 3. Capacity Building Invest in cross-disciplinary training for health professionals, veterinarians, and environmental scientists to enhance collaboration.
- Research and Innovation Support interdisciplinary research to tackle complex health challenges and develop inclusive, context-specific solutions.
- Community Engagement Actively involve local communities in planning and implementing One Health initiatives to ensure cultural relevance and long-term sustainability.

6. **International Collaboration** Foster global partnerships to share knowledge, resources, and best practices for enhanced resilience and equity.

### Conclusion

The One Nation, One Health policy framework is pivotal for addressing health disparities and advancing social justice. By integrating human, animal, and environmental health systems, it provides a pathway to tackle systemic inequities and build resilient health systems. For India, adopting this approach is not only an opportunity but a necessity to meet its Sustainable Development Goals (SDG) commitments, particularly those related to health and well-being (SDG 3), reduced inequalities (SDG 10), and climate action (SDG 13).

The One Nation, One Health policy framework is not merely a vision but a necessity for building resilient health systems that promote equity, justice, and sustainability. By addressing root causes, fostering collaboration, and ensuring inclusive access to resources, this approach lays the foundation for a healthier and more just future.

For India, this framework represents a unique opportunity to lead by example in achieving the SDGs and advancing global health priorities. Strong political will, multisectoral collaboration, and active community participation are vital for translating this vision into reality. By addressing root causes and promoting equitable access to health resources, the One Nation, One Health framework can ensure a healthier, more just, and sustainable future for present and future generations.

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