

One-Health Initiatives by Department of Animal Husbandry & Dairying, Government of India

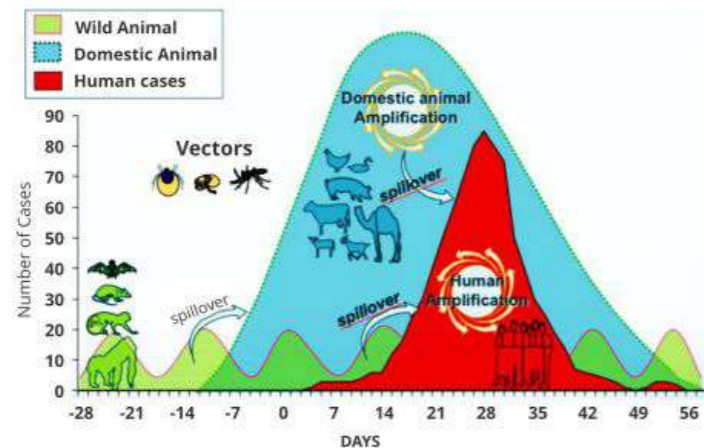
INTRODUCTION

Pandemics have become more frequent and are casting economic gloom over the nations



Around the world, zoonotic diseases cause

2.5 billion cases of sickness
2.7 million deaths



Source: Karesh et al, 2012. The Lancet & WHO

Transmission of infection in people (bright red) occurs after pathogen from wild animals (green) moves into livestock (blue) to cause an outbreak that amplifies the capacity for pathogen transmission to people

From 1995 to 2008, the global economic impact of zoonotic outbreaks has exceeded 120 billion USD

During last two decades, India also experienced the threat of many infectious diseases (zoonotic & non-zoonotic)



Objectives



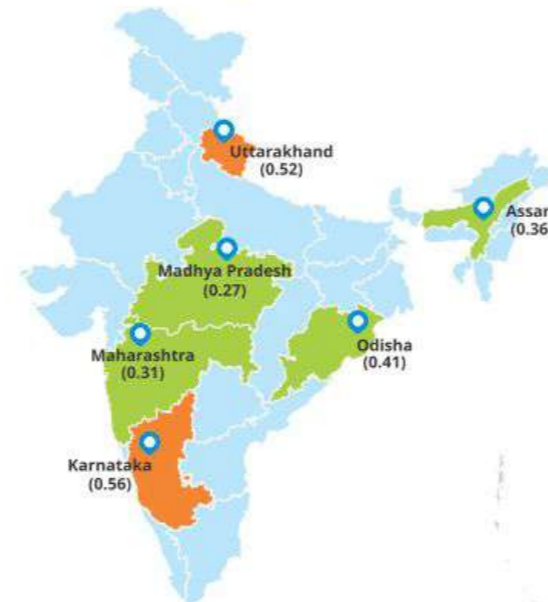
1
Enhancing intersectoral collaborations towards making resilient health system in India



2
Control Zoonosis by enhancing capacity to predict, prevent, detect & respond to diseases

INITIATIVES

State selection for OHSU



Disease Prioritization for OHSU



KARNATAKA

Anthrax, Brucellosis, KFD & Disease X (unknown)

UTTARAKHAND

Scrub Typhus, Glanders, FMD, TB & Disease X (unknown)

One Health implementation along with infrastructure support would help in pandemic preparedness

Interventions

Single window coordination among animal-human-wildlife interface (Institutionalization)

Training & Capacity Building of labs & field functionaries

Digital disease report and response system

Customized training modules for health professionals

IEC materials for awareness and each stakeholder engagement

Strengthening biosafety & biosecurity

Expected Outcomes

Efficient disease reporting & response coordination

Optimum utilization of resources

Capability to handle zoonotic & economically imp. disease with strong data management

Emergency preparedness

Awareness on zoonotic diseases & animal diseases of high economic importance

Strengthening of biosafety & biosecurity measures at the farm level

Other Initiatives of DAHD for strengthening the One Health framework

Development Programs

- RPVY (RGM)
- NPDD (includes A & B component)
- NLM
- LC&ISS

Livestock Health & Disease

- LH&DC Programme
- NADCP
- ASCAD including NAPRE
- CADCP
- ESVHD

Infrastructure Development Fund

- AHIDF
- DIDF
- SDCFPO

Govt. also aims to build end-to-end digital architecture for animal husbandry & existing health portal (National Digital Livestock Mission + Integrated Health Information Portal)

CONCLUSION



The One Health India programme will support Government of India in developing India's National One Health Platform.

One Health India along with other DAHD initiatives will pave the way towards better outbreak management.



The strong data management can eventually be used for disease modelling, timely response and robust policy interventions.

References

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