



Informative Resources for Veterinary Students

Antimicrobial Resistance (AMR) is one of the priority One Health concerns globally. Superbugs not only pose serious medical implications in humans but also affect animals and the environment. The way infections are treated at animal farms significantly contributes to the emergence and spread of resistant microbes. If antimicrobial use is irrational or poorly regulated, the consequences extend beyond farms, affecting food safety, public health, and ultimately all of us who consume animal products.

Veterinary students stand at the forefront of this issue. Building a strong understanding of AMR, practicing responsible antimicrobial use, and strengthening infection prevention measures are critical to safeguarding animal health and protecting the larger ecosystem.

These materials are designed to support classroom learning, student-led discussions, workshops, and farm-level engagement on AMR. We encourage veterinary students and professionals to adapt them to local contexts, promote responsible antimicrobial use, and strengthen dialogue between veterinarians and farmers.

Curated Topic-wise Learning Resources

AMR Mitigation in the Dairy Sector

1. Addressing Antimicrobial Resistance in India's Dairy Sector (FAO India) [Link](#)

Biosecurity in Dairy Farming

1. Antibiotic Use and Biosecurity Practices in Livestock Systems [Link](#)
2. Farm Biosecurity and Disease Prevention in Dairy Systems [Link](#)
3. Biosecurity Plan for Dairy Farms (WOAH Guidelines) [Link](#)

Research Studies (India Focus)

1. Antimicrobial Use and Resistance in Dairy Animals in India [Link](#)
2. Antibiotic Use Practices and AMR Risk in Indian Dairy Sector [Link](#)
3. Sustainable Dairy Farming and AMR Linkages in India [Link](#)
4. Antimicrobial Resistance in Food Systems: Indian Context [Link](#)
5. Farm Biosecurity and Responsible Antibiotic Use Can Reduce AMR [Link](#)



Understanding the Indian Dairy Sector

1. Digital Milky Way: How Startups Are Transforming Dairy Farming in India [Link](#)
2. Livestock Sector Report (Government of India) [Link](#)

Mastitis Control

1. Mastitis in Dairy Animals (FAO Guidelines) [Link](#)
2. Strategy for Prevention and Control of Mastitis
Department of Animal Husbandry & Dairying, Government of India

Bovine Tuberculosis (Bovine TB)

1. Bovine Tuberculosis: Epidemiology and Control Strategies [Link](#)
2. Zoonotic Tuberculosis and Public Health Risk [Link](#)
3. Bovine TB and One Health Perspectives [Link](#)

Ideas for Content Development & Extension Work

1. Effective Extension Strategies for Agricultural Education [Link](#)
2. Animal Health and Care Extension Resources (Penn State) [Link](#)