

The current state of AMR research activities including Alternative to antimicrobials (ATA) and collaboration opportunities in India

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Background on AMR research in India

- Antimicrobial Resistance (AMR) is a National and Global health threat.
- National Action Plan 2 (NAP 2.0) on AMR developed by National Centre for Disease Control (NCDC), Ministry of Health and Family Welfare , India in consultation with Department of Animal Husbandry and Dairying (DAHD).
- Information on AMR submitted for Tracking AMR Country Self Assessment Survey (TrACSS) addresses monitoring the implementation of AMR NAP.
- The stakeholders namely ICMR, NCDC, Animal Research Institutes, Indian Council of Agricultural Research (ICAR) are key organization on the AMR research

ATA Research Focus

- R & D on new vaccine candidates, key initiatives like surveillance, judicious use of antibiotics, ban OTC use antibiotics and infection prevention control (IPC)
- Department (DAHD) has launched G20 Pandemic fund project on Animal Health security & developed Standard Veterinary Treatment Guidelines (SVTGs) to address AMR issues, promote Ethno-Veterinary Medicine (EVM) practice

Challenges related to AMR/ATA research

- Strict monitoring of antibiotics sale
- Audits and monitoring system strengthening
- Intensive sensitization programme
- Strengthening AMR surveillance, Diagnosis, reporting

Solutions

- NDLM e-prescription module
- sensitization programme
- NABL accreditation laboratories
- Traceability
- Feed additive collaboration
- lack of baseline data on antimicrobial use
- More trained human resources for surveillance
- Public Private Partnership mode
- Continuous Veterinary Education
- GAHP, Biosecurity measures

Collaboration opportunities

- Department under Pandemic Fund of WB and ADB to implement activities i.e. early warning, Disease Surveillance, Laboratory Strengthening, Capacity Building.
- MoU was signed between the DAHD & Ministry of Ayush with objective of introduction of concept of Ayurveda & use in Animal Husbandry sector. In addition World Antimicrobial Resistance awareness week (WAAR) celebration by Food and Agriculture Organization (FAO) in collaboration with DAHD raising awareness on AMR related matter.
- Department (DAHD) supports State/UTs, ICAR institutes for capacity building of State BPU, DDLs, surveillance , monitoring of livestock diseases, R & D , Training with CVE under ASCAD.
- Department (DAHD) under NLM has also provision of funds (100%) for R & D to address the critical issues of AMR and alternative therapies.