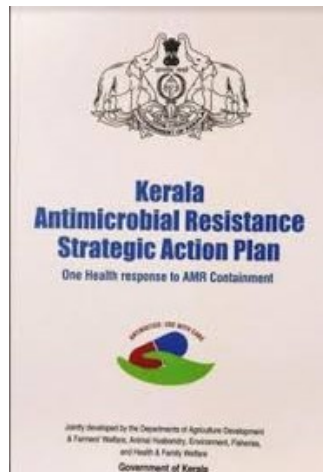


Implementation of AMR State Action Plan– perspective from Kerala, India



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KARSAP

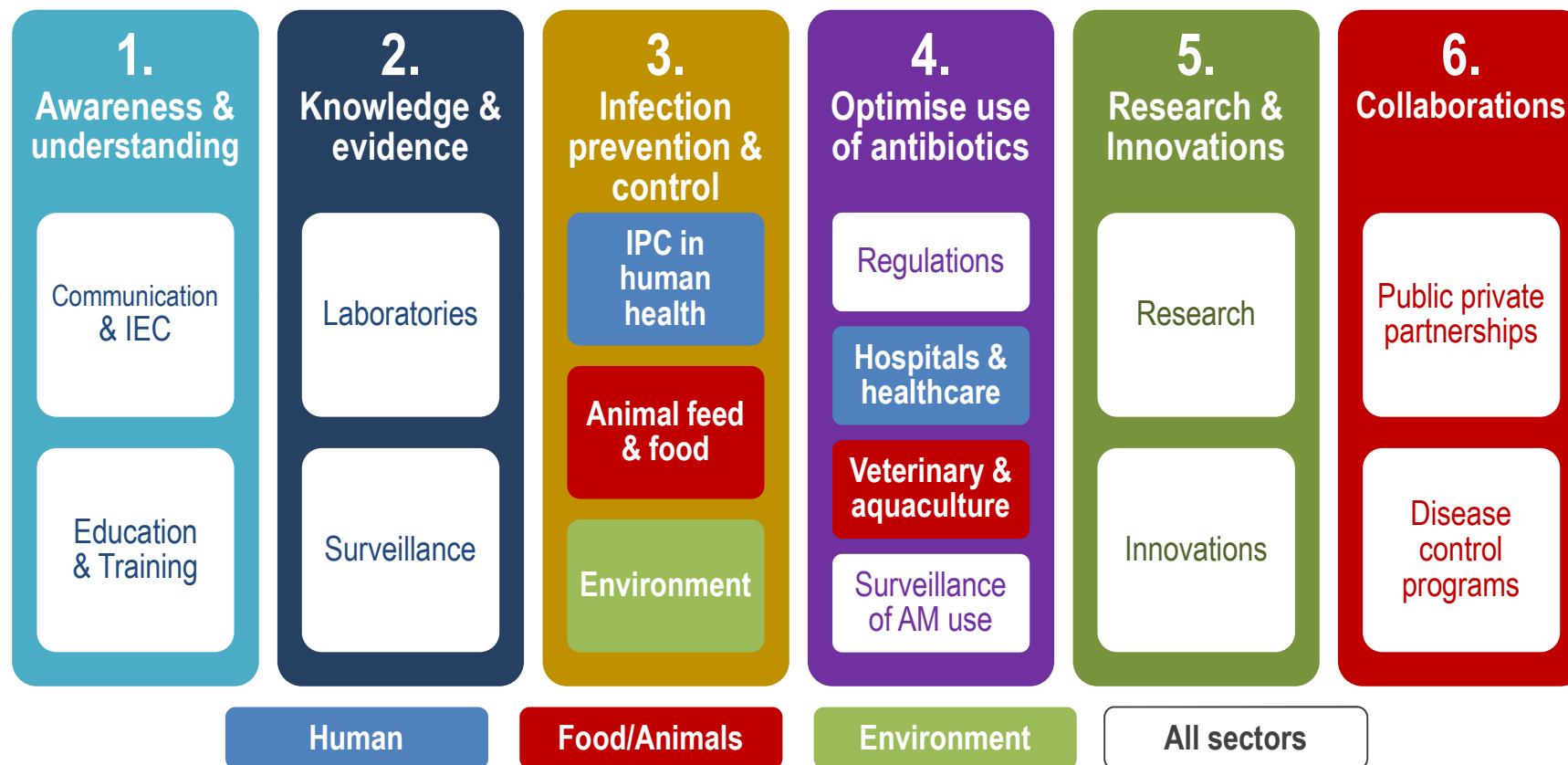
Launch

25 Oct 2018

- **Hon'ble CM**
- **Hon 'ble HM**
- **ACS Health**
- **WR India**



KARSAP strategic priorities & focus areas



1. Awareness and Understanding

- WAAW observed
- Aim to make Kerala an antibiotic literate/aware state by 2021
- Classes on IPC & ASP included in MBBS curriculum
- ASP committees in all tertiary hospitals + IAP, API, IMA & ReAct
- Periodic training in IPC & ASP for interns, PGs and faculty
- Free mobile App – ID consult launched

2. AMR surveillance

- Assessing burden & monitoring of AMR in Kerala
- One Health AMR surveillance – humans, animals, food & environment
- Dept of Microbiology – GMCT
 - State coordinating centre for AMR surveillance
 - KARS-NET (Kerala Antimicrobial Resistance Surveillance Network)
 - NCDCs National AMR Surveillance Network (2017 onwards)

AMR surveillance – KARS-NET

- KARS-NET
 - Network of 27 microbiology labs – 10 Govt. and 17 private
 - Microbiology labs in the state strengthened
- AMR surveillance in AH and fisheries – through accredited labs
- SLMAP Ernakulam
 - Residue monitoring for antibiotics in broiler chickens – 79 farms from 5 districts
 - Antibiotic residue checking in food, meat, milk, etc.
- Framework for environmental AMR surveillance developed (CSE)

3. Infection prevention & control

- GMCT Microbiology & ID Depts – KARSAP focal point for IPC
- HICC established in all Govt hospitals
- Link nurse system established
- World Hand Hygiene day and Global Hand Washing Day
- HAI surveillance in all ICUs – INICC & NHSN rates
- Assess number of commercial farms compliant with IPC guidelines & good practices – biosecurity guidance for farms & slaughter houses

4. Optimizing use of antibiotics

- ASP committees – in GMCs & all major hospitals, and in NABH accredited hospitals – low hanging fruit model of ASP implemented
- Antibiotic policy in GMCs being updated based on the AMR trends
- AMS metrics to assess proportion of WHO AWaRe antibiotics
 - Access, Watch and Reserve
- ASP modules & digital antibiotic policies – K-DISC
- DDDs & DOTs of WHO Watch & Reserve antibiotics (GMCT)
- State goal to achieve WHO target by 2023 – 60% antibiotics from Access category

AM consumption

- NCDCs National Antimicrobial Consumption Network (WHO AMC tool) – Antibiotic utilization (AWaRe) in GMCT by clinical pharmacist
- State Drug Controller
 - Routine training to retail pharmacists
 - Monitors total antibiotic consumption (in state)
 - Quality of drugs checked periodically
 - Programme on Removal of Unused Drugs (PROUD) – in collaboration with All Kerala Chemists and Druggists Association (AKCDA)

5. Research & innovations

- RGCB is the research focal point of KARSAP
- Research in AMR in Human health – in all Govt MCs, GH Ernakulam in collaboration with Aster Medicity
- Fisheries – CIFT, Kerala Univ. of Fisheries & Ocean Sciences and State Fisheries Dept
- Environmental AMR – KSPCB and Dept of Environment Sciences Kerala University
- Livestock – State Laboratory for Livestock, Marine and Agri Products
- Animal Husbandry – KVASU and State Institute of Animal Diseases

6.Collaborations

- WHO Country Office for India
 - KARSAP
 - KARS-NET
- Civil Society Organizations/NGOs
 - Surveillance framework for AH, fisheries & environment (CSE)
 - ReAct Asia Pacific KARSAP priorities
- Public- private collaborations
 - IPC sensitization activities – corporate partners

Achievements

- Kerala – first Indian State to develop a state action plan on AMR with a One Health approach – involvement of all stakeholders/sectors
- KARS-NET – introduction of automated and rapid PoC tests for ASP
- Link nurse system and SGD in IPC helped to combat Nipah outbreak
- App based antibiotic stewardship modules
- “Kerala chicken” – antibiotic residue (and pesticide) free chicken
- Poultry litter banned in aquaculture in 2019
- Non-therapeutic use of Colistin for growth promotion banned in July 2019

Driving forces for success of KARSAP

- Strong political commitment
- Efficient leadership and oversight by ACS (Health) and PS Health – monthly oversight meetings
- AMR technical committee established – governance oversight
- Unwavering support from WHO Country Office for India
- Collaborations and team work of all stakeholders/institutions across all sectors



DIRECTORATE OF HEALTH SERVICES



KERALA STATE ANIMAL HUSBANDRY DEPARTMENT

കേരള സംസ്ഥാന മൃഗസംരക്ഷണ വകുപ്പ്



MEDICAL COLLEGE
THIRUVANANTHAPURAM



Kerala State Pollution Control Board

Committed to protection of environment

Thank you to our One Health AMR collaborators



World Health
Organization
India



AsterMedcity
We'll Treat You Well

ReAct

