

PROJECT DETAILS

Full title: Engaging communities to address antimicrobial resistance: Identifying contextualized and sustainable community-led solutions in lowresource settings.

Funder: UKRI (UK Research and Innovation) GCRF collective fund

Duration: January 1st 2021 –September 30th 2024

Host Institution: University of Leeds (UK)

Partners: ARK Foundation (Bangladesh), Chittagong Veterinary & Animal Sciences University (Bangladesh), HERD International (Nepal), Malaria Consortium, University of Liverpool, University of Western Australia.

Implementation settings: Nepal and Bangladesh

Website: COSTAR: https://ce4amr.leeds.ac.uk/costar/

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PROJECT BRIEF

COSTAR

COmmunity Solutions To Antimicrobial Resistance



VISION

COSTAR will co-create, implement, and robustly evaluate an innovative intervention that addresses the contextual drivers of Antimicrobial Resistance (AMR). We will do this through a One Health approach, build on an infrastructure for knowledge exchange which ultimately impacts on national and global pol

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BACKGROUND

Antimicrobial resistance (AMR) is a major threat to global health, food sustainability and security, and socio-economic development. It is estimated that AMR infections

development. It is estimated that AMR infections cause approximately 700,000 human deaths each year globally, a figure

that is set to rise to 10 million by 2050 if no action is taken. Multi-sectoral action that addresses human and animal health, agriculture, and the environment, through a One Health approach, is essential to

address the profound implications of AMR. This is because antimicrobials used to treatinfectious diseases in animals are often thesame as those used in humans. Resistant bacteria arising either in humans, animals or the environment may spread from one

to the other, and from one country toanother. AMR does not recognize geographic or human/animal borders.





COSTAR will run in both Bangladesh and Nepal. The study will address the drivers of AMR in community settings, building on two previously funded studies. Previous work in Bangladeshhas adapted and piloted the Community Dialogue Approach (CDA) to address AMR. Trainingon AMR and facilitation skills was provided to volunteer facilitators, who then delivered community dialogues within their own communities. In Nepal, Participatory Video (PV) has been used to understand local communities' relationships with AMR. Small groups learned about AMR and developed filmmaking skills. They were then supported to produce short films showing AMR stories to share at community level. Process evaluations have shown that both approaches are able to engage communities on AMR, increase awareness of the One Health challenges around AMR, and impact local and national AMR policies.

OUR INTERVENTION

COSTAR will build upon these successful foundations by combining the PV and CDA approaches into a single intervention in each setting. COSTAR will use PV as a mechanism of generating knowledge to support the further development of CDA resources in each setting. Project teams will then use these resources to implement the CDA, and will assess its effectiveness for improving knowledge, attitudes and practices inrelation to AMR.

In Bangladesh, CDAs will be implemented across five selected upazillas of Cumilla district. The approach will be evaluated through a cluster-randomized control trial (RCT). COSTAR will also assess the scale-up cost and cost-effectiveness of the CDA, the extent to which it is equitable, gender sensitive and participatory, and its potential to be scaled up.



ACTIVITIES

To achieve the above objectives the COSTAR team will: Collaborate with the Ministry of Health and Family Welfare, Bangladesh to ensure the CE approach is embedded within existing health system and community infrastructures.

Co-develop contextualized intervention materials that address AMR through a One Health perspective based on:

- Short films produced through a PV approach in which community members identify drivers of AMR and potentialmechanisms to address those drivers.
- Workshops with key stakeholders to ensure that the materials are culturally appropriate and in line with wider policy priorities.

Comprehensively assess the ability of the CDA to impact on AMR inlow resource settings through:

- ✓ A cluster-randomized control trial (RCT), which will assess theeffectiveness of the CDA approach to impact on AMR in the Bangladesh setting.
- ✓ Scale-up cost and cost-effectiveness analysis of the CDA.
- ✓ An evaluation of the extent to which the CDA isparticipatory, equitable and gender sensitive.
- ✓ A process evaluation to explore the potential for sustainability and implementation at scale

