Backyard Poultry Biosecurity: Existing Knowledge, Attitude and Practices in Chattogram, Bangladesh

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Take home message

- Though the backyard poultry farmers' knowledge, attitude and practices (KAP) regarding biosecurity are limited, but they have a moderate level of knowledge about disease and transmission.
- The prophylactic use of antibiotic (30.6%) is high, which can promote antimicrobial resistance.
- While government guidelines about disposal of dead poultry is detailed in the "Animal Disease Act, 2005" in Bangladesh, there is low awareness of them and a high proportion of the farmers (78.7%) discard the dead chickens in the bush/pond/jungle/roadside.
- Almost 68.7% of the farmers had at least primary level of education which is suitable for reading training materials.
 - Cost-effective biosecurity practices of the farmers can be improved through proper training and awareness.



Background & Objectives

92%

In **Bangladesh**, backyard poultry production is an important source of household food and subsistence income especially for **women**. Despite this significant contribution, knowledge regarding diseases and biosecurity practices among backyard poultry keepers are very limited.

This **study** was undertaken to explore the existing KAP of backyard poultry farmers regarding

- **Biosecurity practices**
- Infectious diseases
- Vaccination and treatment

in order to support development of training materials and awareness raising regarding policy guidelines

Methods

Sampling

- Seven upazilas (sub-districts) were selected based on the wider geographical coverage of Chattogram district.
- One village was selected from each upazila using multistage random sampling.
- A total number of 150 households were proportionally allocated for the selected villages.

Data collection



Structured questionnaire

Results **Gender of the farmers Education level No formal education**





Definition/concept of biosecurity

- **Never heard: 82.7%** Could not define: 10% Cleaning or Hygiene: 1.3%



: 20%

:16.7%

- Germs (virus, bacteria) : 24%
- Weather change

Others

- Have received training \rightarrow 10%
- Would like to have further training \rightarrow 26%

Quotation from one of the stakeholders- "The term **training** seems highly technical to our rural poultry farmers and so they don't feel encouraged to attend the training programmes. Instead of using this term, we should use the local term "Uthan boithak" (Backyard get together) which is much friendlier to them."+



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