

Antimicrobial Use Patterns in Broiler & Sonali Poultry Production in Chattogram, Bangladesh Shariful Islam¹, Saima Akter¹, Fatema Jannat¹, Md. Helal Uddin¹, Pangkaj Kumar Dhar¹, Tahia Ahmed¹, Keya Ghosh¹, Md. Abu Shoieb Mohsin¹, Rashed Mahmud¹, Paritosh Kumar¹ Guillaume Fournié² and Md. Ahasanul Hoque¹



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Introduction

- □ The poultry industry in Bangladesh is a major contributor to the economy (BSB, 2020).
- 28% of Bangladeshi households raise chicken as their main animal (FAO, 2022).
- Overuse of antibiotics is leading to antimicrobial resistance (AMR) development (Chowdhury et al., 2022).

Objectives

- Quantitatively and qualitatively estimate the use of antibiotics, with a view toward uncovering patterns and potential areas for intervention.
- Investigate the purpose for which antibiotics are being used.

Methodology



Study Period: (December 2022 to July 2023) and the number of farms surveyed (45 Broiler, 15 Sonali – All male farmers)

Study Area: Mirsharai and Chandonaish sub-districts in Chattogram (50km away from CVASU)



Eligibility criteria for selecting farms: Exotic Broiler or Sonali chickens with at least 500 birds, both credit-based and contracted



Farm selection: Random sampling for contracted farms & probability-proportional-to-size cluster sampling for credit-based farms

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Methodology (Contd.)

Data Collection: Mixed-methods approach with questionnaires, daily phone calls, and three-time farm visits (First visit – day 12 to 15, Second visit – day 28 or before selling the birds, and third visit – after selling the birds)

Type of data: Antibiotic use, non-antibiotic use, purpose of use, mortality, water consumption

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Data Analysis & tools: Quantitative and qualitative analysis using STATA Corp – 18 and MS Excel



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