Supplemental Material

The Prevalence of Extended-Spectrum Beta-Lactamase–Producing Multidrug-Resistant *Escherichia coli* in Poultry Chickens and Variation according to Farming Practices in Punjab, India

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**Table S1.** Zone diameter interpretive standards (i.e., zone diameter breakpoints) for Enterobacteriaceae as per CLSI (2013) disk diffusion guidelines.

**Table S2.** Farm characterization, antimicrobial usage practices and awareness of hygiene and sanitation measures for all 18 poultry farms included in the study based on questionnaire data.

**Table S3.** Purpose of antimicrobial use across all farms and disaggregated by farm (broiler / layer) and facility (independent / contracted) type for the 16 farms that completed the questionnaire.

**Table S4.** Prevalence of *E. coli* resistant to 11 antimicrobials across all farms included in the study.

**Table S5.** Prevalence of ESBL-producing Enterobacteriaceae across all farms (overall) and disaggregated by type of farm (broiler / layer) for the 17 farms included in the ESBL survey (*n* = 16).
510 birds).

**Table S6.** Prevalence of multidrug-resistant (MDR) *E. coli* across all farms (overall) and disaggregated by type of farm (broiler / layer) for the 18 farms included in the study (*n* = 1556 isolates).

**Figure S1.** Sensitivity analysis to determine the effect of treating intermediate isolates as susceptible instead of resistant using a logistic regression of resistance profiles on farm and facility type.

**Figure S2.** Odds ratios of increased resistance prevalence to all antimicrobials for an increase in farm size by 10,000 birds, stratified by farm type (broiler and layer) and adjusted for facility type.

**Survey.** Survey administered to farmers during structured interview regarding farm managerial and antimicrobial use practices.