

Capacity Enhancement on Biosecurity in Poultry Farming for Line Supervisors in Contractual Commercial Broiler Farming across Gujarat

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INTRODUCTION

Key Challenges and Biosecurity

- Poultry diseases pose a dual threat to subsistence and industrial operations, necessitating the implementation of biosecurity measures

Role of Line Supervisors

- Daily supervision, documentation, collaboration on biosecurity measures across poultry farms

Capacity Building

- Empowering farmers for sustainable poultry production

Objectives

- Analyze the socio-economic traits and assess the effectiveness of capacity-building initiatives on biosecurity practices

METHODOLOGY

Study Design

- One-day capacity-building biosecurity training for 33 line supervisors in commercial broiler farming took place on June 7, 2023, at Kamdhenu University, Gujarat, India

Training sessions

- Covered 8 themes, emphasizing knowledge & skill-based sessions, facilitated by experts in the field

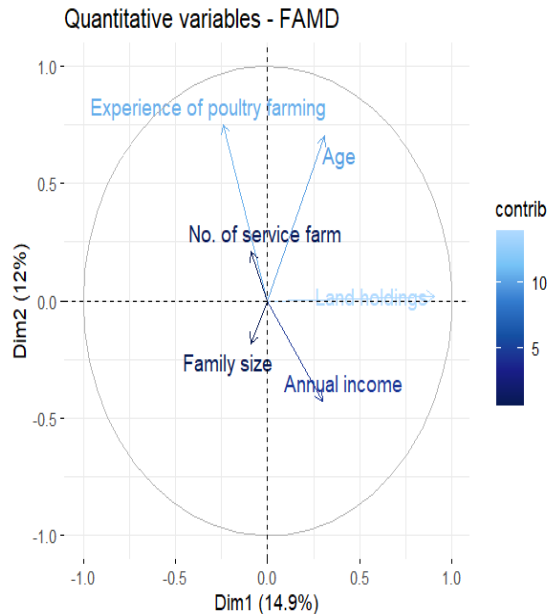
Survey questionnaire

- Pre- and post-training questionnaires, conducted in Gujarati, assessed socio-demographic characteristics, biosecurity measures, and perceived difficulty in implementing these measures, using Likert scales alongwith evaluating training effectiveness



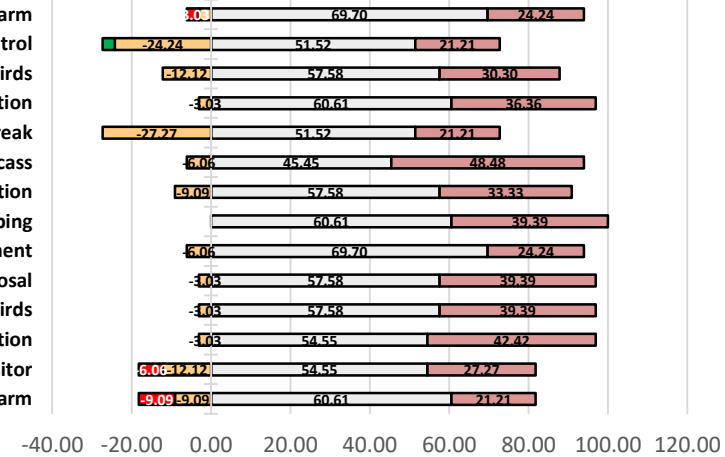
RESULTS

- Correlation analysis revealed positive associations between education and ease of adopting biosecurity measures, a negative correlation with experience, and a slight positive correlation with age.



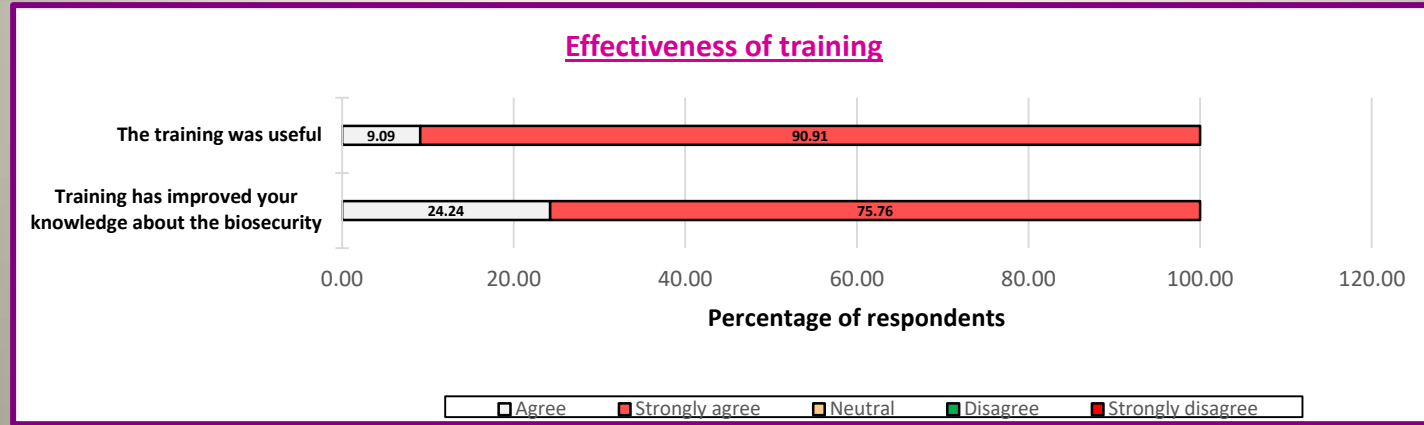
Complexity of implementing biosecurity measures

- Location and design of poultry farm
- Rodent and pest control
- Prevention of contact with wild birds
- Vaccination
- Action during disease outbreak
- Disposal of carcass
- Good nutrition
- Documentation and record keeping
- Health management
- Proper manure disposal
- Isolation and quarantine of new birds
- Cleaning and disinfection
- Restriction on entry of visitor
- Restriction on vehicle entry in the farm



Easy Very easy Difficult Very difficult Impossible

ANOVA analysis showed significant differences ($p = 0.0000517$) in Likert scale ratings for various biosecurity measures, with high ratings for "Disposal of Carcass," "Vaccination," and "Proper Manure Disposal"



CONCLUSION

Training is crucial for improving biosecurity practices as well as it effectively strengthens the biosecurity knowledge of line supervisors, reinforcing frontline capacity significantly

FUTURE DIRECTION

Sustaining the poultry industry's future involves recurrent, comprehensive biosecurity training for line supervisors to ensure public health protection and economic viability