**Supplementary information**

**Unique duck rearing practice in irrigated rice paddy fields driving recurrent H5N1 Avian Influenza outbreaks in two districts of Kerala, India**

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*D:\Manuscripts_Oct_2023\Kerala outbreak\Epidemiology and Infection\Submission\Review_Sept_2024\Figure S1.tiff*

*Figure S1: Mesh construction using constrained refined Delaunay triangulation*

*Table S1: Questionnaire to identify risk factors for occurrence of Avian Influenza*

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| **S.No.** | Name of the farmer | Contact number | Village | Whether Avian Influenza reported during the past three years (Years 2020, 2021, 2022)  (Mention as Yes/No) | Purpose of rearing (mention as A or B or C)  A. Layer B. Broiler C. Both | Duck rearing in Rice paddy field (Mention as Yes/No) | If Ducks are not reared in paddy field, then mention where they are reared  a.Pond b. River c. Near home d. Other (please mention) | How many Paddy fields are covered in a year? (please mention the number of paddy fields) | Can you provide details of vehicle used for transportation of Ducks? |
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