Additional file 2: Summary of the two-step screening.

Does the study involve a primary research article on avian influenza? • Yes (include) • No (exclude)¹ Does this article study avian influenza in poultry? • Yes (include) • No (exclude)² Does this article study the propagation of the influenza epidemic at the population level? • Yes (include) • No (exclude)³ Does this article describe a mechanistic approach in studying an avian influenza outbreak?
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• Yes (include)
• No (exclude) ⁴
g (full text)
Does the study involve a primary research article on avian influenza?
• Yes (include)
• No (exclude) ¹
Does this article study avian influenza in poultry?
• Yes (include)
• No (exclude) ²
Does this article study the propagation of the influenza epidemic at the population level?
• Yes (include)
• No (exclude) ³
Does this article describe a mechanistic approach in studying an avian influenza outbreak?
• Yes (include)
• No (exclude) ⁴
Does this article present a model that was used to estimate transmission parameters using AI epidemic data and/or to evaluate mitigation strategies after calibration to AI epidemic data? • Yes (include)

¹ Articles to be excluded are reviews, commentaries, editorials, and perspective papers.

² Articles to be excluded are those that do not focus on avian influenza in at least one domestic poultry species.

³ Articles to be excluded are those that focus on experimental or molecular studies.

⁴ Articles to be excluded are those using a non-mechanistic approach. By mechanistic approach, we mean compartmental or individual-based (non-exhaustive list) models where the process of infection was made explicit.

⁵ Articles to be excluded are those using theoretical models that have not been fitted on AI epidemics (HP or LP) data.