Additional file 3
Timeline of poultry flocks in each study farm

Farms are numbered from 1 to 26 (Tan Loc commune) or from 1 to 27 (Tan Phu commune).

Flocks are represented by straight lines starting on the month the first birds are introduced and finishing on the month the last birds are sold. Specific events (introduction, removal and deaths attributable to diseases) are displayed on each flock on the month they occurred. Vertical dashed lines indicate months during which more than 10% of the poultry initially present in the farm died due to disease.

**Code of poultry type and specie**

LD: layer duck
BD: broiler duck
YD: duckling
PH: pheasant
Q: quail
P: pigeon
LMD: layer Muscovy duck
NMD: broiler Muscovy duck
YMD: young Muscovy duck
LG: layer geese
BG: broiler geese
LC: layer chicken
BC: broiler chicken
YC: chicks
introduction removal death due to disease
>20%/month mortality rate due to disease
Timeline Tan Loc 2

- ▼ introduction
- △ removal
- • death due to disease
- >20%/month mortality rate due to disease

Legend:
- LD
- BD
- YD
- PH
- Q
- P
- LMD
- BMD
- YMD
- LG
- BG
- LC
- BC
- YC

Time (study month)
Timeline Tan Loc

- ▽ introduction
- △ removal
- • death due to disease
- >20%/month mortality rate due to disease

Time (study month)
introduction removal death due to disease

>20%/month mortality rate due to disease
introduction removal death due to disease
>20%/month mortality rate due to disease
introduction  triangle removal  dot death due to disease

>20%/month mortality rate due to disease
introduction removal death due to disease

>20%/month mortality rate due to disease
Timeline Tan Loc 8

- ▽ introduction
- △ removal
- ● death due to disease
- >20%/month mortality rate due to disease

Time (study month)

Legend:
- LD
- BD
- YD
- PH
- Q
- P
- LMD
- BMD
- YMD
- LG
- BG
- LC
- BC
- YC
- P
- PH
- Q
- LMD
- BMD
- YMD
- LG
- BG
- LC
- BC
- YC
introduction 

>20%/month mortality rate due to disease
introduction removal death due to disease
>20%/month mortality rate due to disease
introduction removal death due to disease
>20%/month mortality rate due to disease
Timeline  Tan Loc  12

- ▽ introduction
- △ removal
- ● death due to disease
- >20%/month mortality rate due to disease

Time (study month): 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1
introduction ▽ removal △ death due to disease

>20%/month mortality rate due to disease
introduction removal death due to disease

>20%/month mortality rate due to disease

Timeline Tan Loc 14
introduction removal death due to disease
>20%/month mortality rate due to disease
introduction removal death due to disease

>20%/month mortality rate due to disease
introduction
>20%/month mortality rate due to disease

removal
dead due to disease
Timeline Tan Loc 18

- ▼ introduction
- △ removal
- ● death due to disease

>20%/month mortality rate due to disease

Legend:
- LD
- BD
- YD
- PH
- Q
- P
- LMD
- BMD
- YMD
- LG
- BG
- LC
- LC
- BC
- YC

Time (study month)
Timeline Tan Loc 19

- ▽ introduction
- △ removal
- ● death due to disease
- >20%/month mortality rate due to disease

Time (study month)
Introduction removal death due to disease >20%/month mortality rate due to disease

Time (study month)
Timeline Tan Loc 21

- ▼ introduction
- △ removal
- ● death due to disease
- >20%/month mortality rate due to disease

Time (study month)
introduction removal death due to disease
>20%/month mortality rate due to disease
Timeline Tan Loc 23

△ introduction  ▽ removal  ● death due to disease

>20%/month mortality rate due to disease
<!-- Markdown can be inserted here --><p>Timeline Tan Loc  24</p><p>▽ introduction  △ removal  ● death due to disease</p><p>>20%/month mortality rate due to disease</p>
△ introduction  ▽ removal  ● death due to disease

>20%/month mortality rate due to disease
Timeline Tan Loc 26

- ▽ introduction
- △ removal
- ● death due to disease

>20%/month mortality rate due to disease
introduction removal death due to disease
>20%/month mortality rate due to disease
introduction removal death due to disease

>20%/month mortality rate due to disease

Time (study month)
introduction removal death due to disease
>20%/month mortality rate due to disease
Timeline Tan Phu

• introduction
• removal
• death due to disease

>20%/month mortality rate due to disease
Timeline Tan Phu 5

- ▼ introduction
- △ removal
- ● death due to disease

>20%/month mortality rate due to disease
Introduction removal death due to disease

>20%/month mortality rate due to disease

Time (study month)
introduction  removal  death due to disease
>20%/month mortality rate due to disease
Timeline Tan Phu 9

- \(\triangledown\) introduction
- \(\triangle\) removal
- \(\bullet\) death due to disease

>20%/month mortality rate due to disease
Timeline Tan Phu 10

▽ introduction  △ removal  ● death due to disease

>20%/month mortality rate due to disease
Timeline Tan Phu 11

▽ introduction  △ removal  ● death due to disease

>20%/month mortality rate due to disease

YC  BC  LC  BG  YMD  BMD  LMD  P  Q  PH  YD  BD  LD
Timeline Tan Phu 12

▽ introduction  △ removal  • death due to disease

>20%/month mortality rate due to disease
Timeline Tan Phu

▽ introduction  △ removal  ● death due to disease

>20%/month mortality rate due to disease
\(\nabla\) introduction \(\triangle\) removal \(\bullet\) death due to disease

>20%/month mortality rate due to disease
Timeline Tan Phu 15

▽ introduction △ removal ● death due to disease

>20%/month mortality rate due to disease
\( \nabla \) introduction \quad \triangle \) removal \quad \bullet \) death due to disease

>20%/month mortality rate due to disease
introduction removal death due to disease
>20%/month mortality rate due to disease

Timeline Tan Phu

Time (study month)
Timeline Tan Phu 18

- ▼ introduction
- △ removal
- ● death due to disease
- >20%/month mortality rate due to disease

Legend:
- LD
- BD
- YD
- PH
- Q
- P
- LMD
- BMD
- YMD
- LG
- BG
- LC
- BC
- YC

Time (study month)

6 7 8 9 10 11 12 1
Timeline Tan Phu 19

▽ introduction  △ removal  ● death due to disease

>20%/month mortality rate due to disease
\begin{itemize}
\item[\nabla] introduction
\item[\triangle] removal
\item[\bullet] death due to disease
\item[\blackdot]{>20\%/month mortality rate due to disease}
\end{itemize}
Timeline Tan Phu 21

▽ introduction  △ removal  ● death due to disease

>20%/month mortality rate due to disease
Timeline Tan Phu 22

- ▽ introduction
- △ removal
- ● death due to disease

>20%/month mortality rate due to disease
Timeline Tan Phu 23

- ▽ introduction
- △ removal
- • death due to disease

>20%/month mortality rate due to disease
Timeline Tan Phu 24

▽ introduction  △ removal  ● death due to disease
>20%/month mortality rate due to disease
Timeline Tan Phu 25

- ▼ introduction
- △ removal
- ● death due to disease
- >20%/month mortality rate due to disease
introduction removal death due to disease >20%/month mortality rate due to disease