# Infection dynamics of swine influenza virus in a Danish pig herd reveals recurrent infections with different variants of the H1N2 swine influenza A virus subtype

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**Table 1.** Occurrence and recurrence of IAV in pigs from week 2 to week 22 in the pig herd using high-throughput rtPCR. '+' indicates the positive case of IAV whereas '-' indicates the negative case of IAV. Green boxes indicate the non-consecutive detection of IAV, yellow boxes indicate the consecutive detection of IAV whereas blue boxes indicate the single detection of IAV. 'NA' indicate the unavailability of the sample for IAV detection test.

| Pig sample ID | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 8 | Week 12 | Week 22 |
|---|---|---|---|---|---|---|---|---|
| 10 | - | - | + | - | - | + | - | + |
| 20 | - | NA | NA | - | - | - | - | NA |
| 30 | - | NA | - | - | - | - | - | NA |
| 40 | - | NA | - | - | - | - | NA | NA |
| 50 | - | NA | NA | - | - | NA | NA | NA |
| 60 | - | - | - | + | + | - | - | NA |
| 70 | - | + | - | + | + | + | - | NA |
| 80 | - | - | + | - | + | - | - | NA |
| 90 | - | - | + | - | - | - | - | - |
| 100 | - | - | + | + | + | NA | NA | NA |
| 110 | - | - | - | - | + | - | - | - |
| 120 | NA | - | - | - | + | - | - | - |
| 130 | + | - | - | - | - | - | - | NA |
| 140 | - | - | - | - | - | - | + | NA |
| 150 | NA | NA | NA | NA | NA | NA | NA | NA |
| 160 | - | - | - | - | - | - | - | NA |
| 170 | - | + | - | - | - | + | - | NA |
| 180 | - | - | - | + | - | - | - | NA |
| 190 | - | NA | NA | NA | NA | NA | NA | NA |
| 200 | - | NA | NA | - | - | - | - | NA |
| 210 | - | - | - | - | NA | + | - | - |
| 220 | NA | NA | NA | NA | NA | NA | NA | NA |
| 230 | - | - | - | - | + | - | - | NA |
| 240 | - | - | - | - | - | - | - | NA |
| 250 | - | - | + | - | - | + | - | - |
| 260 | - | - | - | - | - | - | - | NA |
| 270 | - | - | + | - | - | - | - | NA |
| 280 | - | - | + | + | - | - | - | NA |
| 290 | - | - | - | + | + | - | - | NA |
| 300 | - | + | - | - | - | - | - | NA |
| 310 | - | - | + | NA | NA | NA | NA | NA |
| 320 | NA | NA | NA | NA | NA | NA | NA | NA |
| 330 | - | - | NA | - | + | - | - | NA |
| 340 | - | - | - | + | + | + | - | NA |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 350 | - | - | - | - | - | - | - | - |
| 360 | - | - | - | + | - | - | - | NA |
| 370 | - | - | - | + | - | - | - | - |
| 380 | - | - | + | + | - | - | - | + |
| 390 | - | - | - | + | + | - | - | + |
| 400 | - | - | - | + | - | - | - | NA |
| 410 | - | NA | NA | + | - | - | - | - |
| 420 | - | - | - | - | - | - | - | + |
| 430 | - | NA | NA | + | - | - | - | NA |
| 440 | - | - | + | - | - | - | - | NA |
| 450 | - | - | - | - | + | - | - | - |
| 460 | - | - | + | - | - | NA | - | NA |
| 470 | - | - | + | - | - | - | - | NA |
| 480 | - | NA | NA | - | - | - | NA | NA |
| 490 | - | + | + | - | - | - | - | NA |
| 500 | + | - | - | - | - | - | - | NA |

**Table S2.** Association between IAV infection and nasal secretion at week 2.

| P-Value | | | Week 2 | | |
|---|---|---|---|---|---|
| 1 | | | Nasal Discharge | | |
| | | | + | - | Total |
| The Fisher exact test statistic value is 1. The result is not significant at p < .05 | | + | 2 | 0 | 2 |
| | IAV | - | 31 | 13 | 44 |
| | | Total | 33 | 13 | **46** |

**Table S3.** Association between IAV infection and nasal secretion at week 4.

| P-Value | | | Week 4 | | |
|---|---|---|---|---|---|
| 0.1053 | | | Nasal Discharge | | |
| | | | + | - | Total |
| The Fisher exact test statistic value is 0.1053. The result is not significant at p < .05. | | + | 2 | 11 | 13 |
| | IAV | - | 0 | 26 | 26 |
| | | Total | 2 | 37 | **39** |

**Table S4.** Association between IAV infection and conjunctivitis at week 2.

| P-Value | | | Week 2 | | |
|---|---|---|---|---|---|
| 1 | | | Conjunctivitis | | |
| | | | + | - | Total |
| The Fisher exact test statistic value is 1. The result is not significant at p < .05 | | + | 1 | 1 | 2 |
| | IAV | - | 19 | 25 | 44 |
| | | Total | 20 | 26 | **46** |

**Table S5.** Association between IAV infection and conjunctivitis at week 4.

| P-Value | | | Week 4 | | |
|---|---|---|---|---|---|
| 1 | | | Conjunctivitis | | |
| | | | + | - | Total |
| The Fisher exact test statistic value is 1. The result is not significant at p < .05. | | + | 1 | 12 | 13 |
| | IAV | - | 3 | 23 | 26 |
| | | Total | 4 | 35 | **39** |

**Table S6.** Nasal swabs selected for whole genome sequencing (WGS).

| Pig ID | Week 4 | Week 5 | Week 6 | Week 8 | Week 22 | Total |
|--------|--------|--------|--------|--------|---------|-------|
| 90 | WGS | | | | | 1 |
| 210 | | | | WGS | | 1 |
| 250 | WGS | | | WGS | | 2 |
| 290 | | | WGS | | | 1 |
| 310 | WGS | | | | | 1 |
| 380 | | WGS | | | WGS | 2 |
| 420 | | | | | WGS | 1 |
| 440 | WGS | | | | | 1 |
| 490 | WGS | | | | | 1 |
| **Total** | 5 | 1 | 1 | 2 | 2 | 11 |