

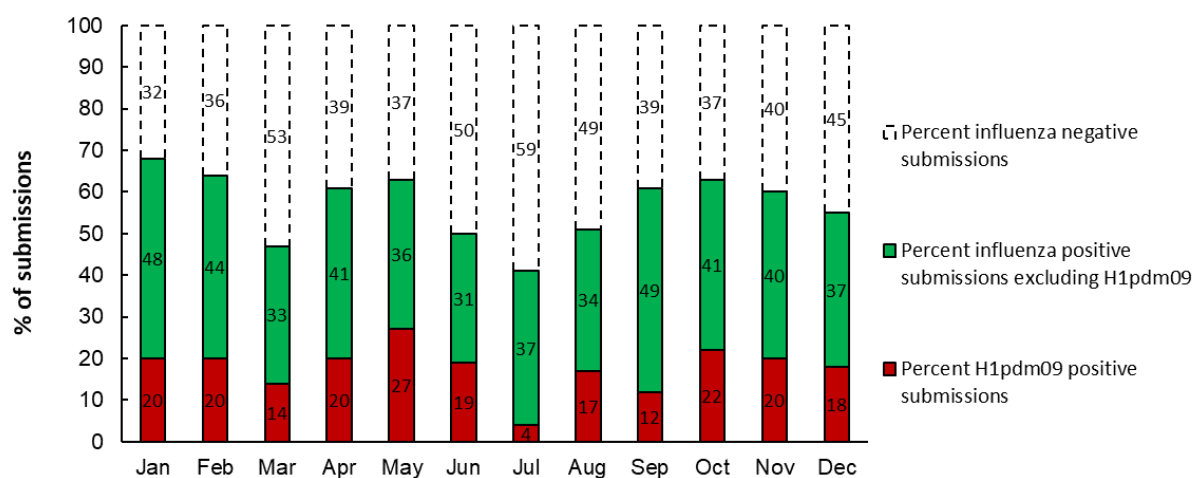
# Surveillance of Influenza A virus in Danish pigs

## Samples and results 2024

The table illustrates the number of samples, submissions and herds that contributed to the surveillance program each month and for the whole year. In addition, the results of the influenza A virus and H1pdm09 screening are shown.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Received</b>												
Samples	156	140	121	141	107	84	68	115	141	278	129	128
Submissions	40	41	36	44	30	26	27	35	41	68	40	38
Herds	40	41	34	42	30	24	23	34	37	67	38	36
<b>Influenza positive</b>												
Samples	70	53	43	60	44	38	19	42	58	100	53	55
Submissions	27	25	17	27	19	13	11	18	25	43	24	21
Herds	27	25	17	27	19	13	10	18	23	43	24	19
<b>H1pdm09 positive</b>												
Samples	24	14	10	22	17	10	2	14	17	29	19	18
Submissions	8	8	5	9	8	5	1	6	5	15	8	7
Herds	8	8	5	9	8	5	1	6	5	15	8	6

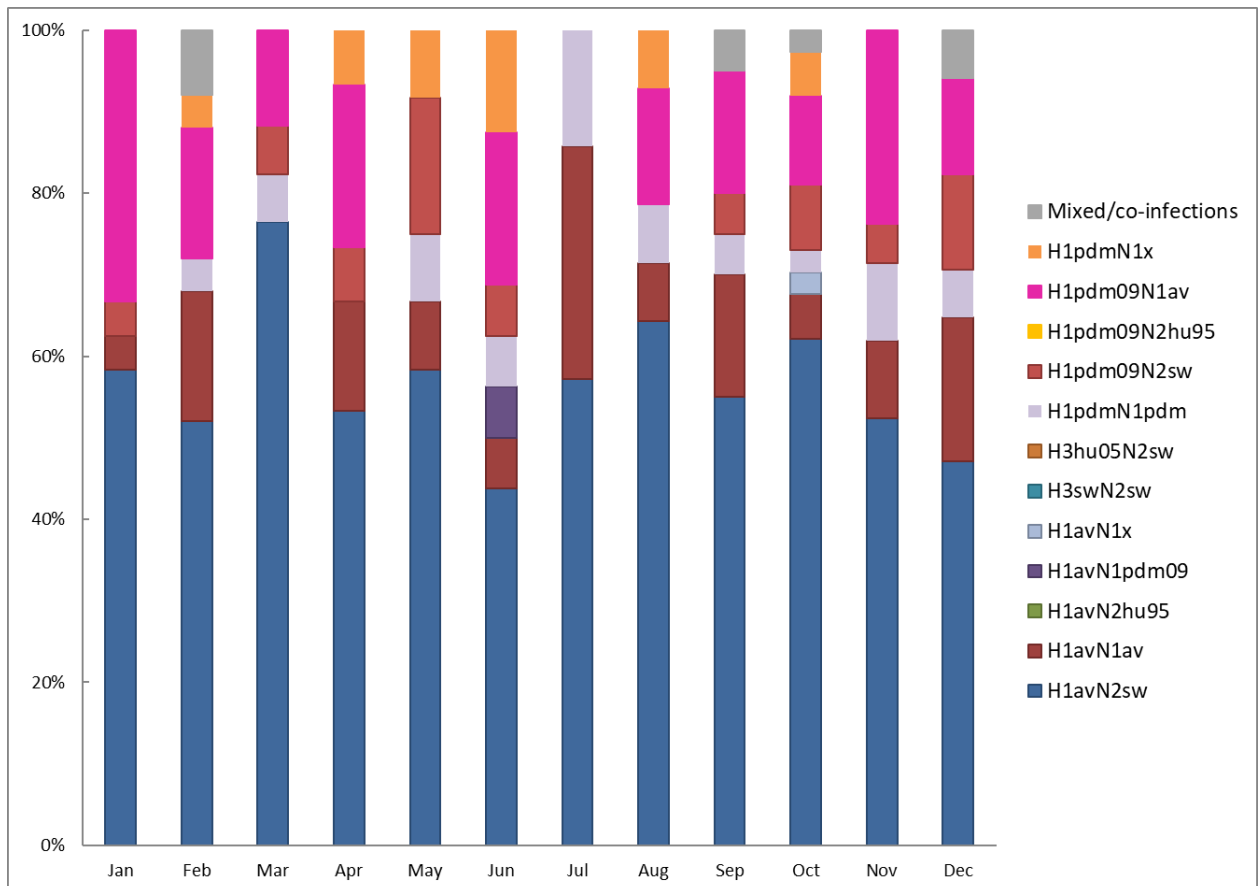
In December, 38 submissions from 36 herds registered with different CHR numbers were received. On average, each submission consisted of 3.4 samples. The percentage of submissions positive was 55 % slightly lower than the three previous months. All influenza A virus-positive samples were tested for the presence of H1pdm09. Overall, 33% of the submissions testing positive for the influenza A virus were positive for H1pdm09, which is similar to the level observed the two previous months.



The figure illustrates the percentage of influenza A virus negative and positive submissions including the proportion of H1pdm09 positive submissions.

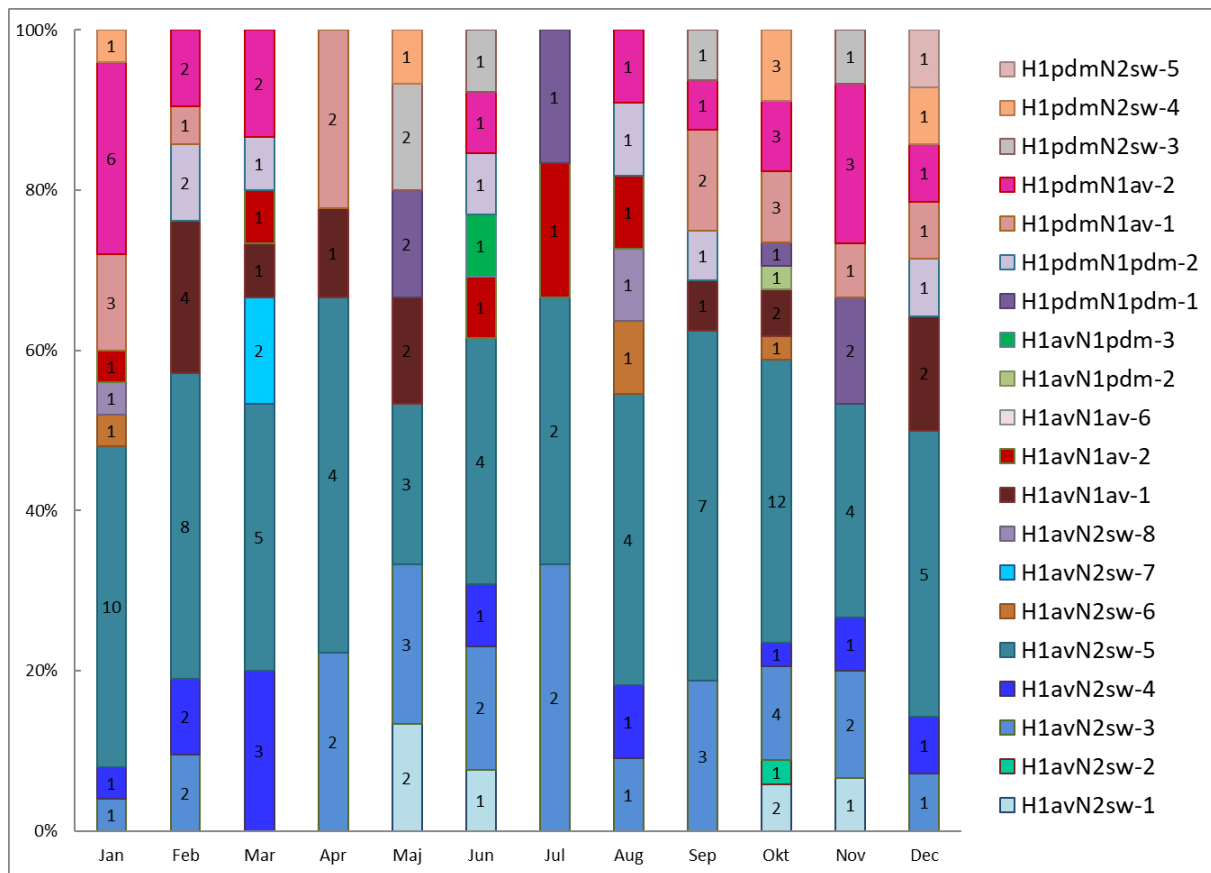
## Distribution of swine influenza A virus subtypes

Swine influenza A virus can be classified into subtypes and genotypes. The subtype describes the combination of HA and NA surface gene segments, and the genotype describes the combination of all eight genome segments based on their genetic origin. Information on the contemporary circulating swine influenza A virus subtypes is essential for the update of vaccination protocols, optimization of the diagnostic assays and for evaluation of the zoonotic risk.



In December, the full subtype (both HA and NA gene segments) was determined for 17 submissions. The far greatest majority of the submissions were of H1avN2sw origin (n=8), whereas a few submissions were positive for H1pdm09N1av, H1pdm09N2sw, H1avN1av and H1pdmN1pdm.

## Distribution of swine influenza A virus genotypes



For December, 14 submissions were genotyped. The H1avN2sw-5 viruses with a complete internal cassette of H1N1pdm09 origin were again the most abundant (n=5).

# Phylogenetic analysis

Fylogenetisk træ - Influenza A virus overvågning i Danske svin  
December 2024

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