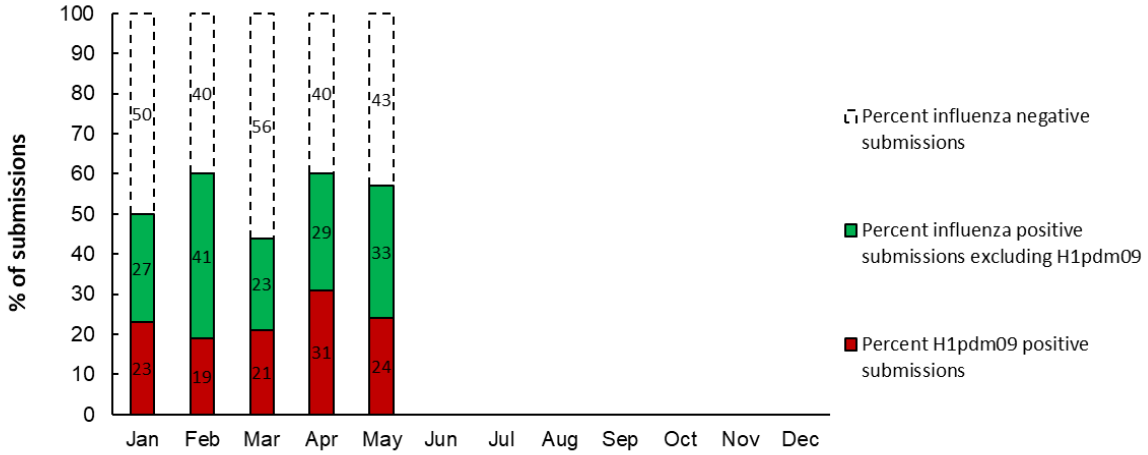
Surveillance of Influenza A virus in Danish pigs

Samples and results 2025

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
Received												
Samples	60	151	124	148	67							
Submissions	22	52	43	42	21							
Herds	22	51	41	42	21							
Influenza positive												
Samples	28	69	42	60	27							
Submissions	11	31	19	25	12							
Herds	11	31	19	25	12							
H1pdm09 positive												
Samples	13	14	21	25	13							
Submissions	5	10	9	13	5							
Herds	5	10	9	13	5							

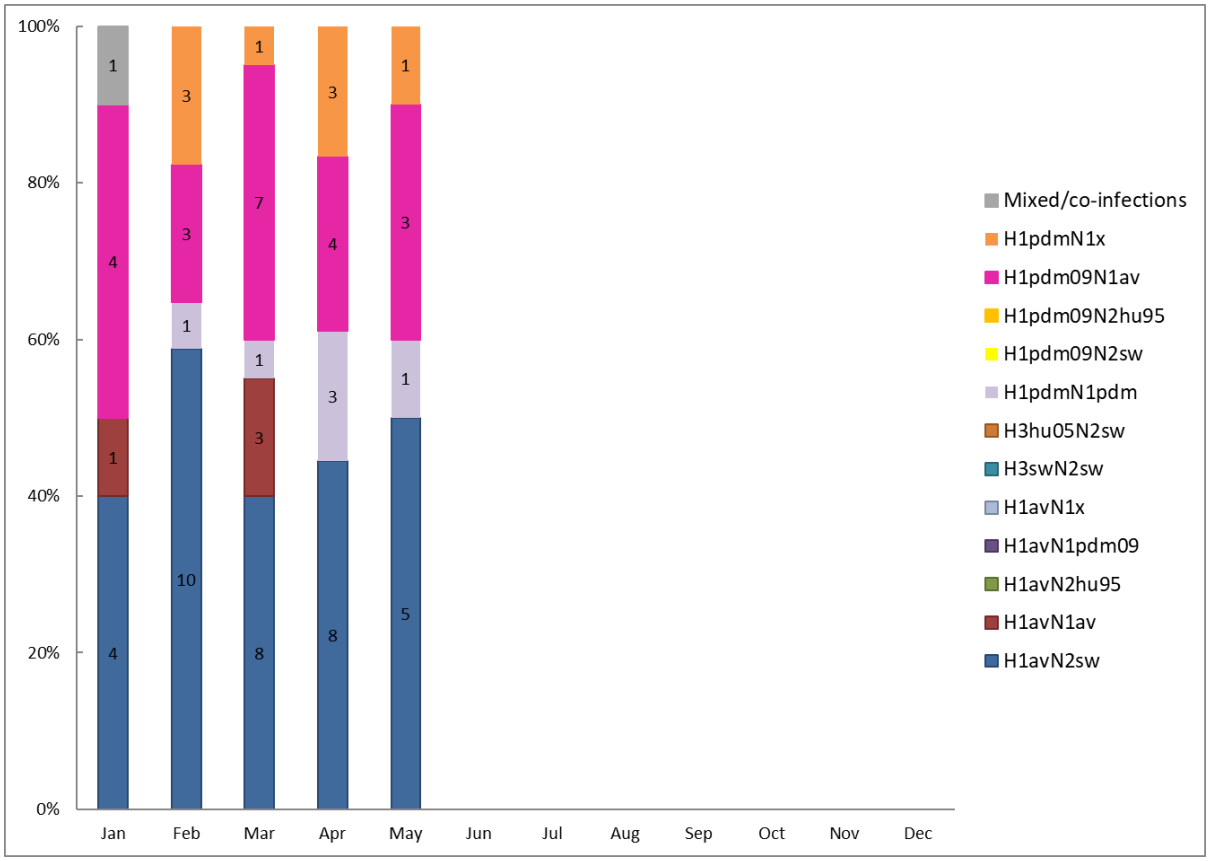
In May, 21 submissions from 21 herds registered with different CHR numbers were received. On average, each submission consisted of 3.2 samples. The percentage of influenza positive submissions was 57 %, which is similar to the level observed in April. All influenza A virus-positive samples were tested for the presence of H1pdm09. Overall, 42% of the submissions testing positive for the influenza A virus were positive for H1pdm09, which is similar to the level observed in January.



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

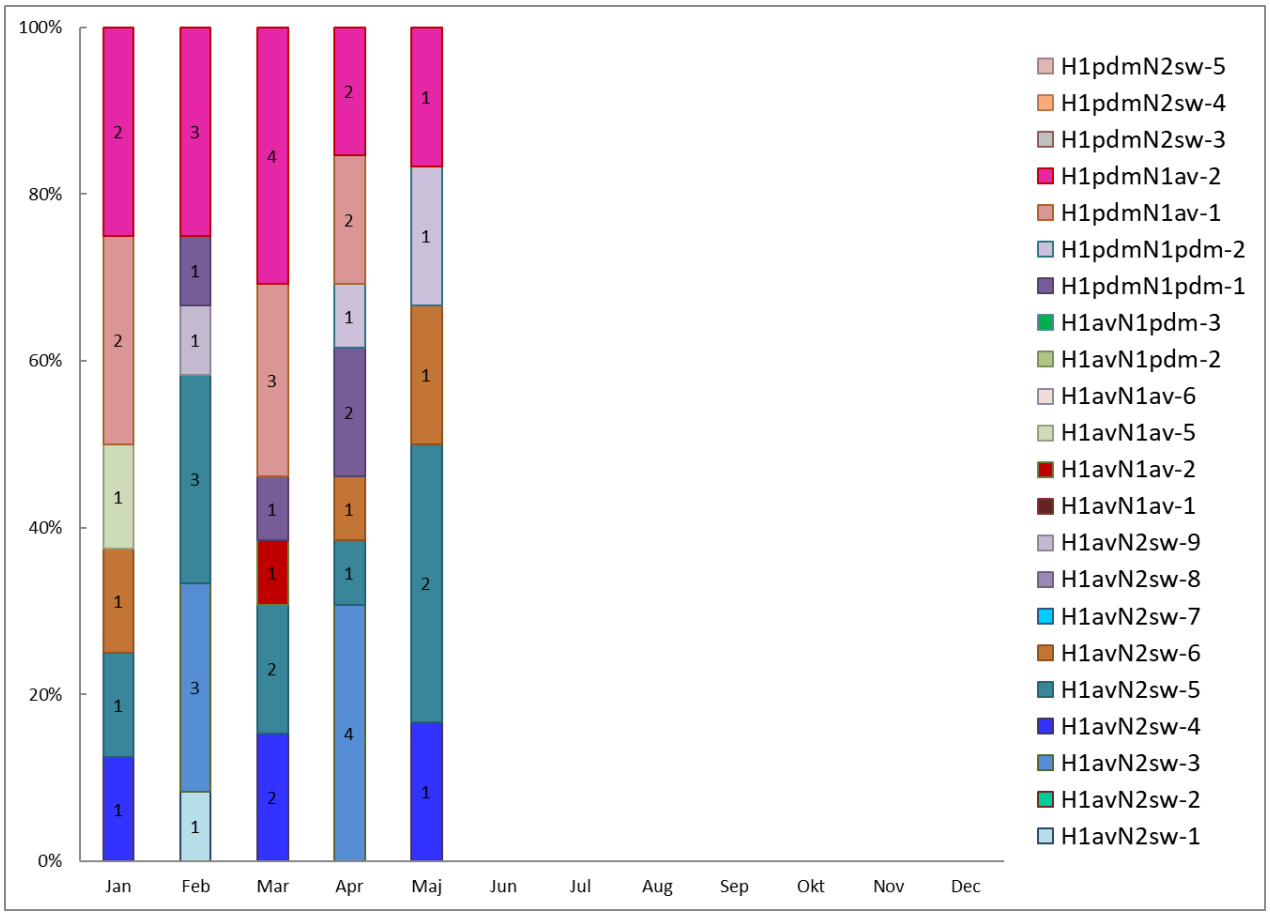
Distribution of swine influenza A virus subtypes

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 May, the full subtype (both HA and NA gene segments) was determined for 10 submissions. The majority of were of the H1avN2sw subtype (n=5) but the H1pdmN1av was also observed in three submissions. In addition, one H1pdmN1pdm and one H1pdmN1x subtype was observed.

Distribution of swine influenza A virus genotypes



For May, six submissions were genotyped and included five different genotypes. H1avN2sw-5 were observed in two submissions, whereas H1avN2sw-3, H1avN2sw-6, H1pdmN1av-2 and H1pdmN1pdm-2 were all observed in single submissions.

Phylogenetic analysis