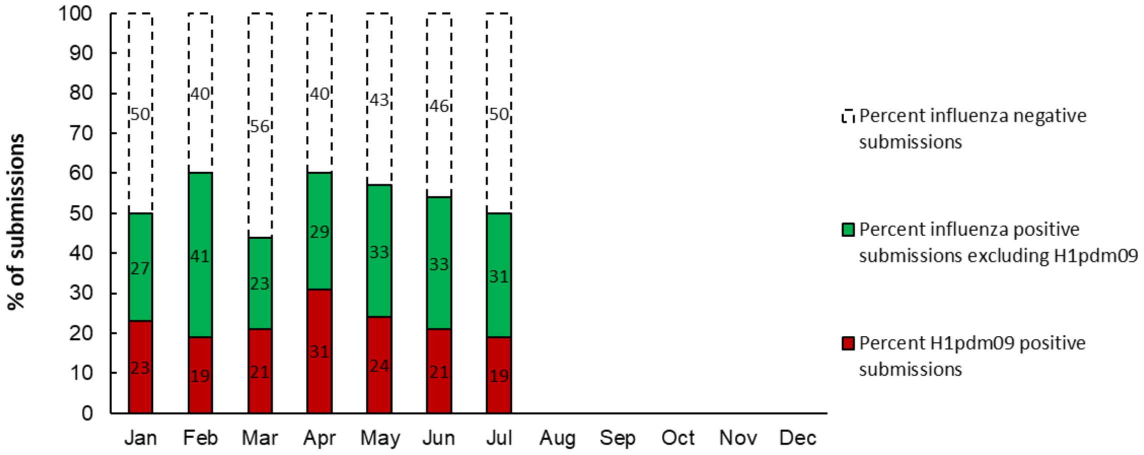
Surveillance of Influenza A virus in Danish pigs

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	110	93					
Submissions	22	52	43	42	21	33	26					
Herds	22	51	41	42	21	29	25					
Influenza positive												
Samples	28	69	42	60	27	39	25					
Submissions	11	31	19	25	12	18	13					
Herds	11	31	19	25	12	18	13					
H1pdm09 positive												
Samples	13	14	21	25	13	17	11					
Submissions	5	10	9	13	5	7	5					
Herds	5	10	9	13	5	7	5					

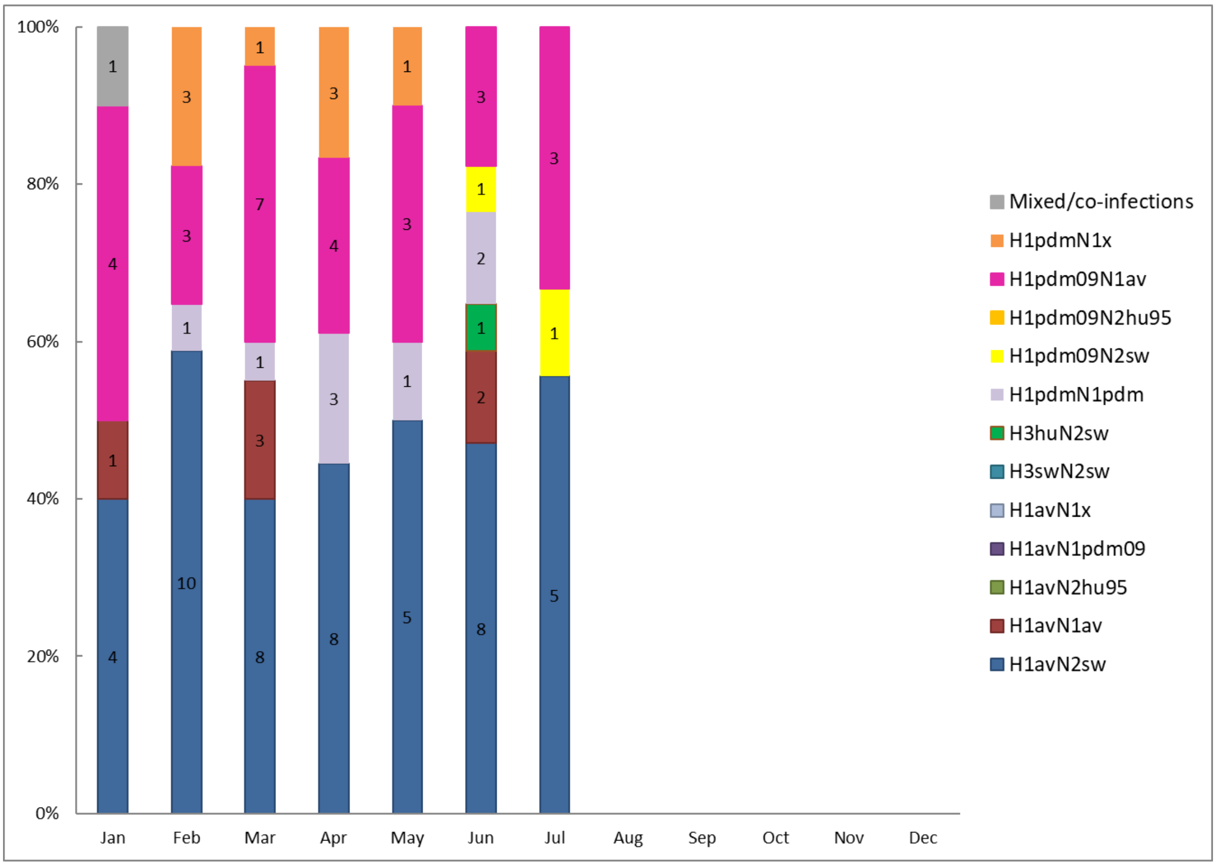
In July, 26 submissions from 25 herds registered with different CHR numbers were received. On average, each submission consisted of 3.6 samples. The percentage of influenza positive submissions was 50 %, which is slightly lower than the previous month and corresponds to the level observed in January. All influenza A virus-positive samples were tested for the presence of H1pdm09. Overall, 38 % of the submissions testing positive for the influenza A virus were positive for H1pdm09.



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

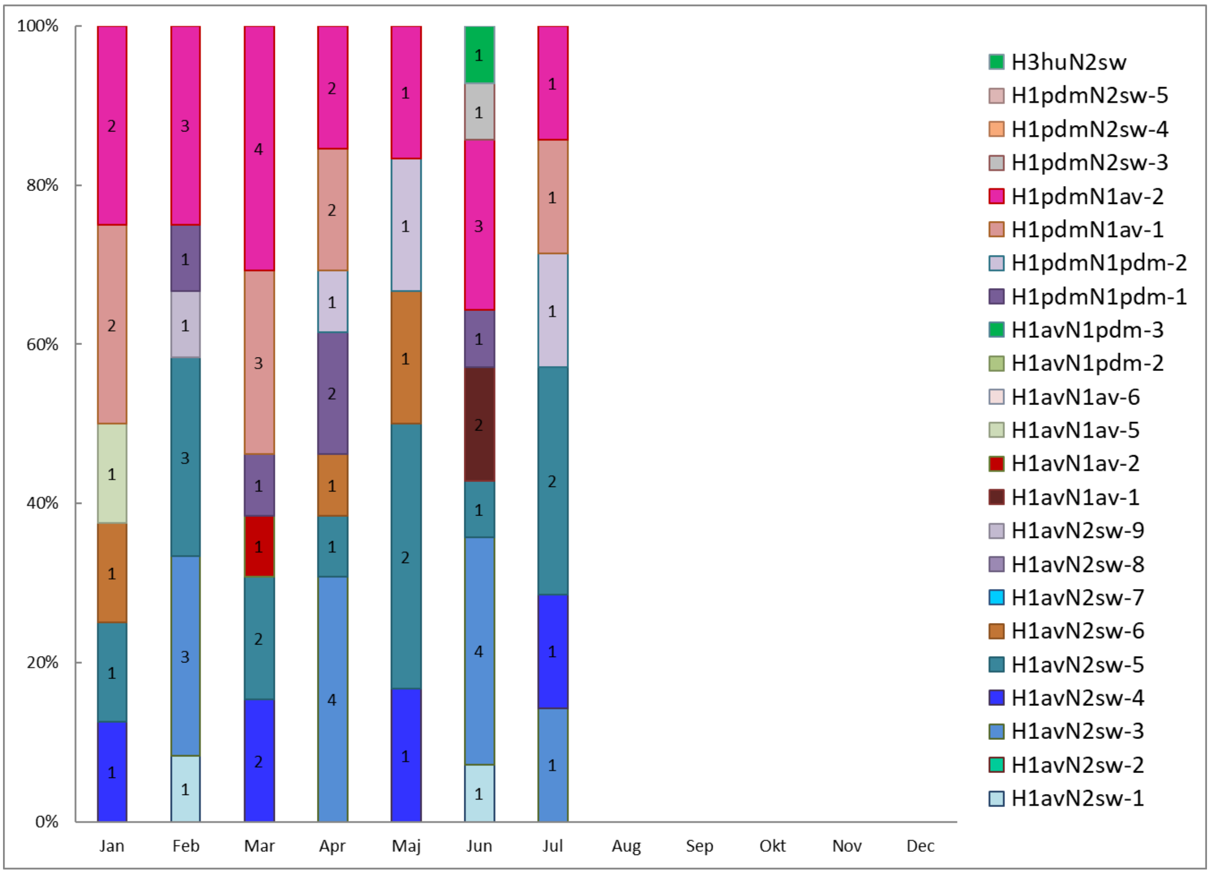
Distribution of swine influenza A virus subtypes

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 July, the full subtype (both HA and NA gene segments) was identified for 9 submissions. The majority were of the H1avN2sw subtype (n=5) while the H1pdm09N1av was observed in three submissions. In addition, a single submission was positive for H1pdm09N2sw.

Distribution of swine influenza A virus genotypes



For July, seven submissions were genotyped and included six different genotypes. H1avN2sw-5 was observed in two submissions, whereas H1avN2sw-3, H1avN2sw-4, H1pdmN1pdm-2, H1pdmN1av-1 and HpdmN1av-2 were observed in single submissions.

Phylogenetic analysis

Fylogenetisk træ - Influenza A virus overvågning i Danske svin
Juli 2025
FIND DIN PRØVE: Tryk "ctrl + f" og søg på dit sagsnummer: fx "25-03138-4"
Vær opmærksom på at prøver indsendt til SSI starter med "SI" eller "SIO" og er navngivet med SSI's sagsnummer, mens prøver indsendt til Veterinært laboratorium, Kjellerup starter med "LF" og er navngivet med Kjellerups sagsnummer.

1A, 1B og 1C clades (i følge BV-BRC.org) er angivet på referencesekvenser som suffix i sekvensnavnet