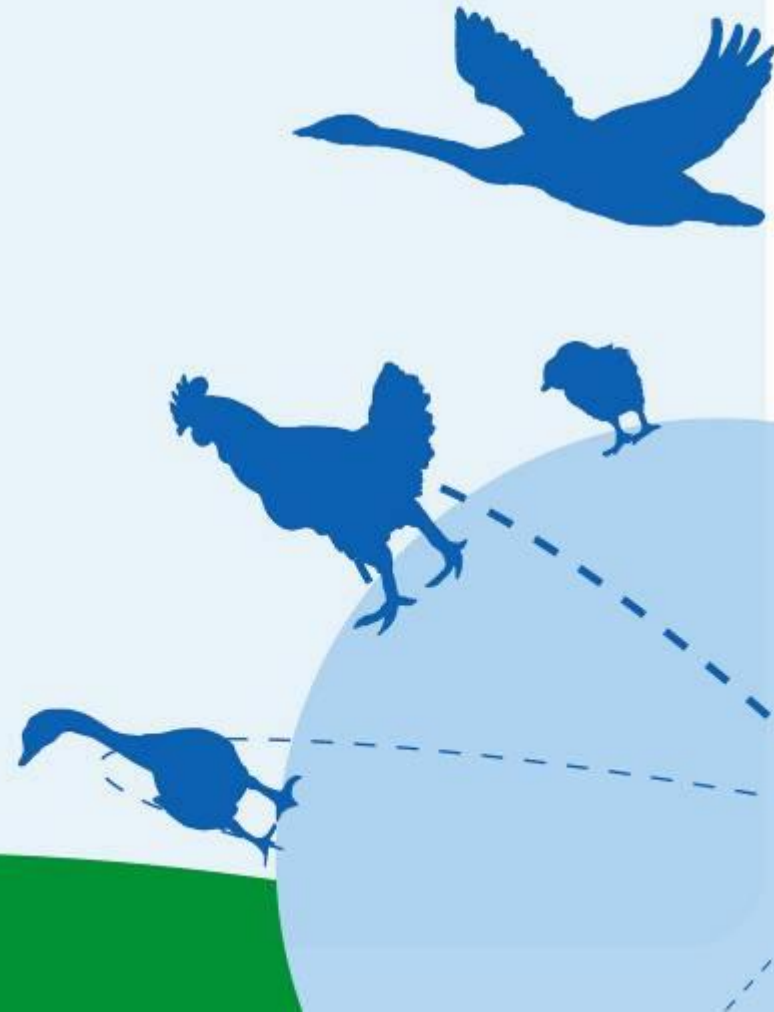




*OFFLU virtual SIV group
meeting
9 December 2020*

Kristien Van Reeth
Ghent University, Belgium
Title of presentation



Subtypes of swlAV isolated in Belgium and the Netherlands (2014 – 2020)

Isolate subtype	Isolate lineage	Number of isolates per year							Total
		2014	2015	2016	2017	2018	2019	2020	
H1N1	H1avN1av	9	3	1	4	9	14	16	56
	H1pdmN1av					1			1
	H1pdmN1pdm						1	7	8
H1N2	H1huN2	5		1	1	8	9	8	32
	H1avN2				1		1		2
	H1pdmN2	1					2		3
H3N2	H3huN2	8			2	4	4	1	19
Positive samples		23	3	2	8	22	31	32	121
Total number of samples		51	11	3	24	58	53	59	259

HA subtype of swlAV isolated in Belgium and the Netherlands (2014 – 2020)

Isolate subtype	Isolate lineage	Number of isolates per year							Total
		2014	2015	2016	2017	2018	2019	2020	
H1N1	H1av	9	3	1	5	9	15	16	58
	H1pdm	1				1	3	7	12
H1N2	H1hu	5		1	1	8	9	8	32
H3N2	H3hu	8			2	4	4	1	19
Positive samples		23	3	2	8	22	31	32	121
Total number of samples		51	11	3	24	58	53	59	259

Genotypes of H1swlAV isolated in Belgium and the Netherlands (2014-2019)

Virus isolate	Subtype	Surface genes		Internal genes					
		HA	NA	PB	PB	PA	NP	M	NS
A/swine/Gent/30/2014*	H1N2								
A/swine/Netherlands/Gent-62/2015	H1N1								
A/swine/Gent/173/2015	H1N1								
A/swine/Gent/36/2016	H1N2								
A/swine/Gent/150/2016	H1N1								
A/swine/Gent/121/2018*	H1N1								
A/swine/Gent/196/2018	H1N1								
A/swine/Gent/233/2018	H1N2								
A/swine/Gent/241/2018	H1N1								
A/swine/Gent/05/2019	H1N1								
A/swine/Gent/53/2019	H1N1								
A/swine/Gent/54/2019*	H1N2								
A/swine/Gent/114/2019	H1N2								
A/swine/Gent/178/2019	H1N2								
A/swine/ Netherlands/Gent-193/2019	H1N1								
A/swine/Gent/203/2019	H1N1								
A/swine/Gent/220/2019	H1N2								
A/swine/Gent/235/2019	H1N2								

Human Infection with a Eurasian Avian-like Swine Influenza A (H1N1) Virus, the Netherlands, September 2019

Parys A, Vandoorn E, King J, Graaf A, Pohlmann A, Beer M, Harder T, and Van Reeth K - EID Volume 27, Number 3, March 2021

- A swine influenza A virus (swlAV) was isolated from a farmer and his pigs
- **Antigenic characterisation** (VN): Both isolates were related to Eurasian avian-like swlAVs and pH1N1
- **Genetic characterisation** (Multiplex real-time RT-PCR and whole genome next generation sequencing): All segments were closely related to Eurasian avian-like swlAVs, HA1 clade 1C.2.2