

COUNTRY REPORTS FOR AVIAN PARAMYXOVIRUSES 2007

Based on responses to the
questionnaire received by
29/02/2008

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Laboratories responding to questionnaire

Austria	Greece x 2	Poland
Belgium	Hungary	Portugal
Bulgaria	Ireland	Romania
Cyprus	Italy	Slovakia
Czech Rep.	Latvia	Slovenia
Denmark	Lithuania	Spain
Estonia	Luxembourg	Sweden
Finland	Malta	UK GB
France	Netherlands	UK N. Ireland
Germany	Norway	

Virus isolation attempts in eggs 2007 for APMVs TISSUES

Bird	Number	No. countries
chickens	1828	19
turkeys	285	10
ducks & geese	201	10
game birds etc	169	7
ostriches	14	3
pigeons	356	18
cage, zoo & Q	139	9
Wild birds/others	345	10
TOTAL	3337	

Virus isolation attempts in eggs 2007 for APMVs SWABS

Bird	Number	No. countries
chickens	10053	8
turkeys	589	6
ducks & geese	669	7
game birds etc	253	3
ostriches	19	2
pigeons	123	8
cage, zoo & Q	187	4
Wild birds/other	1926	12
TOTAL	13819	

Why aren't the numbers for
inoculation of eggs the same
for avian influenza and
APMV's?

Within 3-10%!

APMV-1 detection by RT-PCR 2007

TISSUES

Bird	Number	No. countries
chickens	234	9
turkeys	56	6
ducks & geese	19	4
game birds etc	287	5
pigeons	84	8
cage, zoo & Q	6	3
wild birds	189	3
TOTAL	875	

APMV-1 detection by RT-PCR 2007

SWABS

Bird	Number	No. countries
chickens	3018	8
turkeys	111	6
ducks & geese	166	7
game birds etc	96	5
ostriches	174	2
pigeons	100	7
cage, zoo & Q	174	3
wild birds	773	6
TOTAL	4612	

Virus isolation - laboratories with no avian paramyxoviruses isolated or detected

- Finland
 - Hungary
 - Ireland
 - Latvia
 - Lithuania
 - Luxembourg
 - Malta
 - Netherlands
- Sweden

APMV-1 viruses isolated by country

Austria 2007

Bird	ICPI	F0 cleavage site	mAb	geno group	Conclusion
pigeon	1.04	RRKKRF	nd	nd	PPMV-1 x2
pigeon	nd	RRKKRF	nd	nd	PPMV-1 x3
pigeon	1.43	RRQKRF	nd	nd	PPMV-1
pigeon	nd	RRQKRF	nd	nd	PPMV-1

APMV-1 viruses isolated by country

Belgium 2007

Bird	ICPI	F0 cleavage site	mAb	geno group	Conclusion
turkey	nd	GRQGRL	nd	nd	lentogenic
chickens	nd	?	nd	nd	lentogenic
pigeon x 12	nd	RRQKRF	P	nd	PPMV-1
Goshawk	nd	RRQKRF	P	Nd	PPMV-1
mallard	nd	?		6?	APMV-1

APMV-1 viruses isolated by country

Bulgaria 2007

Bird	ICPI	F0 cleavage site	mAb	geno group	Conclusion
chickens x 1	nd	RRQKRF	nd	5d	NDV
turkeys x 1	nd	RRQKRF	nd	5d	NDV
mule duck	nd	GRQGRL	nd	2	Lentogenic
pigeon	nd	?	nd	4b	PPMV-1

APMV-1 viruses isolated by country

Cyprus 2007

Bird	ICPI	F0 cleavage site	mAb	geno group	Conclusion
Pigeon x2	nd	RRQKRF	nd	4b	PPMV-1
Kestrel	nd	GRQGRL	nd	nd	Vaccine (Clone 30)

APMV-1 viruses isolated by country Czech Republic 2007

Bird	ICPI	F0 cleavage site	mAb	geno group	Conclusion
Pigeon	1.48	RRQKRF	nd	nd	PPMV-1
Pigeon	0.45	RRQKRF	nd	nd	PPMV-1
Pigeon	0.48	RRQKRF	nd	nd	PPMV-1

APMV-1 viruses isolated by country Denmark 2007

Bird	ICPI	F0 cleavage site	mAb	geno group	Conclusion
Pigeon	nd	RRQKRF	nd	4b	PPMV-1*

* PCR only

APMV-1 viruses isolated by country Estonia 2007

Bird	ICPI	F0 cleavage site	mAb	geno group	Conclusion
Chicken	1.16	KRQKRF	nd	4b	NDV
Chicken	1.62	KRQKRF	nd	4b	NDV
Chicken	nd	KRQKRF	nd	4b	NDV
pigeon	nd	KRQKRF	nd	4b	PPMV-1

8/12 positive layer flocks by serology

APMV-1 viruses isolated by country Finland 2007

One goose flock seropositive

APMV-1 viruses isolated by country

France 2007

Bird	ICPI	F0 cleavage site	mAb	geno group	Conclusion
Pigeons x3	0.4-1.0	RRQKRF	nd	4b	PPMV-1
Pigeon	1.4	RRQKRF	nd	4a	APMV-1
Turkey	0.4	GRQGRL		2	Avirulent vaccine-like
Duck	0.0	EKQGRL	nd	1	Avirulent

APMV-1 viruses isolated by country

Germany 2007

Bird	ICPI	F0 cleavage site	mAb	geno group	Conclusion
pigeons x 19	0.7-1.5	RRQKRF	P	4b	PPMV-1
Chicken x4	0.04-0.3	GRQGRL	nd	nd	Lentogenic*
Mallard	0	EKQGRL	nd	6	Avirulent
Mallard x2	0.68-0.75	GKQGRL	Nd	6	Lentogenic
	Nd				
Mallard	Nd	ERQERL	Nd	6	Lentogenic
Mallard	Nd	GRQGRL	Nd	6	Lentogenic
Mallard	nd	ERQGRL	nd	6	Lentogenic

APMV-1 viruses isolated by country

Greece 2007

Bird	ICPI	F0 cleavage site	mAb	geno group	Conclusion
Chicken	1.49	RRQKRF	nd	5d	NDV

APMV-1 viruses isolated by country

Italy 2007

Bird	ICPI	F0 cleavage site	geno group	Conclusion
Chicken x19	0-0.6	GKQGRL	1	lentogenic
pigeons x 15	0.6-1.6	RRQKRF	4b	PPMV-1
Pigeon x2		GKQGRL	1	Lentogenic
Domestic pigeon	0.6	RRQKRF	4b	PPMV-1
collared doves x9	0.7-1.4	RRQKRF	4b	PPMV-1
Partridge	0.6	GKQGRL	1	Lentogenic
Pheasant	0.2	GKQGRL	1	Lentogenic
Guinea Fowl	0.2	GKQGRL	1	Lentogenic
Parrot	0.5	GKQGRL	1	Lentogenic

APMV-1 viruses isolated by country

Norway 2007

Bird	ICPI	F0 cleavage site	mAb	geno Group	Conclusion
Teal	nd	ERQERL	nd	6?	Avirulent

APMV-1 viruses isolated by country

Portugal 2007

Bird	ICPI	F0 cleavage site	mAb	geno group	Conclusion
chickens x 4	nd	RRQKRF	nd	?	NDV
Duck x4	nd	GKQGRL	nd	?	Avirulent?
Pigeon x2	nd	RRQKRF	P	4b?	PPMV-1

APMV-1 viruses isolated by country

Romania 2007

Bird	ICPI	F0 cleavage site	mAb	geno group	Conclusion
chickens x46	c1.8	RRQKRF	nd	?	NDV
Layers x 21	1.7-1.9	RRQKRF	Nd	?	NDV
Turkey	0.087	nd			Lentogenic
Chicken	0.07	GKQGRL	Nd	Nd	Vaccine
Starling	1.66	nd	nd	nd	Virulent

APMV-1 viruses isolated by country Slovakia 2007

Bird	ICPI	F0 cleavage site	geno group	Conclusion
Mute Swan	nd	ERQERL	6?	Avirulent

APMV-1 viruses isolated by country Slovenia 2007

Bird	ICPI	F0 cleavage site	geno group	Conclusion
pigeons x 2	nd	RRQKRF	4biif	PPMV-1
pigeons x 2	nd	RRKKRF	4biif	PPMV-1

APMV-1 viruses isolated by country

Spain 2007

Bird	ICPI	F0 cleavage site	mAb	geno group	Conclusion
<i>Columbiforme</i> x3	nd	RRQKRF	P	4b?	PPMV-1
Pigeon x1	Nd	RRQKRF	C1	Nd	APMV-1
Turtle Dove	nd	RRQKRF	C1	nd	APMV-1

APMV-1 viruses isolated by country

UK N. Ireland 2007

Bird	ICPI	F0 cleavage site	mAb	geno group	Conclusion
Pigeon x2	nd	RRQKRF	nd	4b	PPMV-1

APMV-1 viruses isolated by country

UK GB 2007

Bird	ICPI	F0 cleavage site	mAb	geno group	Conclusion
Chicken x2	0-0.05	GKQGRL	nd	2	Avirulent
Pigeons x37	nd	RRQKRF	nd	4b	PPMV1

Other APMVs isolated 2007

- Mallard- Belgium - 2 x APMV-2
- Mallard- France APMV-4
- Teal – Italy - 1 x APMV-4
- ‘pet bird’ - Germany - 1 x APMV-2
- Parakeat – Germany – 1 x APMV-3
- Mallard – Spain – APMV-4 & APMV-9

APMV-1 viruses reported 2007

SUMMARY

VELOGENIC APMV-1 viruses isolated from:

Type of bird	Number isolates	genotype	Number countries
Poultry	3 [1]	4b	1[1]
poultry	3 [1]	5d	3 [1]
Poultry	71	Nd	3[1]
Starling	1	nd	1

[2006 figures]

PPMV-1 viruses reported 2007 SUMMARY

Type of bird	No isolates	No countries
pigeons and doves	122 (128) [180]	14 (9) [9]
chickens	3	1

(2006) [2005]

CONCLUSIONS

- Five countries reported outbreaks ND in 2007 compared to 5 in 2006.
- PPMV-1 in pigeons and doves remains a problem and a continuing threat to poultry. PPMV-1 virus was isolated from chickens in Estonia.