



Ministero della Salute

ND outbreaks in Italy

**Directorate General for Animal
Health and veterinary medicinal
products**



Newcastle Disease (ND) in Italy

✓ 4 ND outbreaks (20/06/2024)

- 1 Veneto
- 1 Emilia Romagna
- 1 Toscana
- 1 Lazio



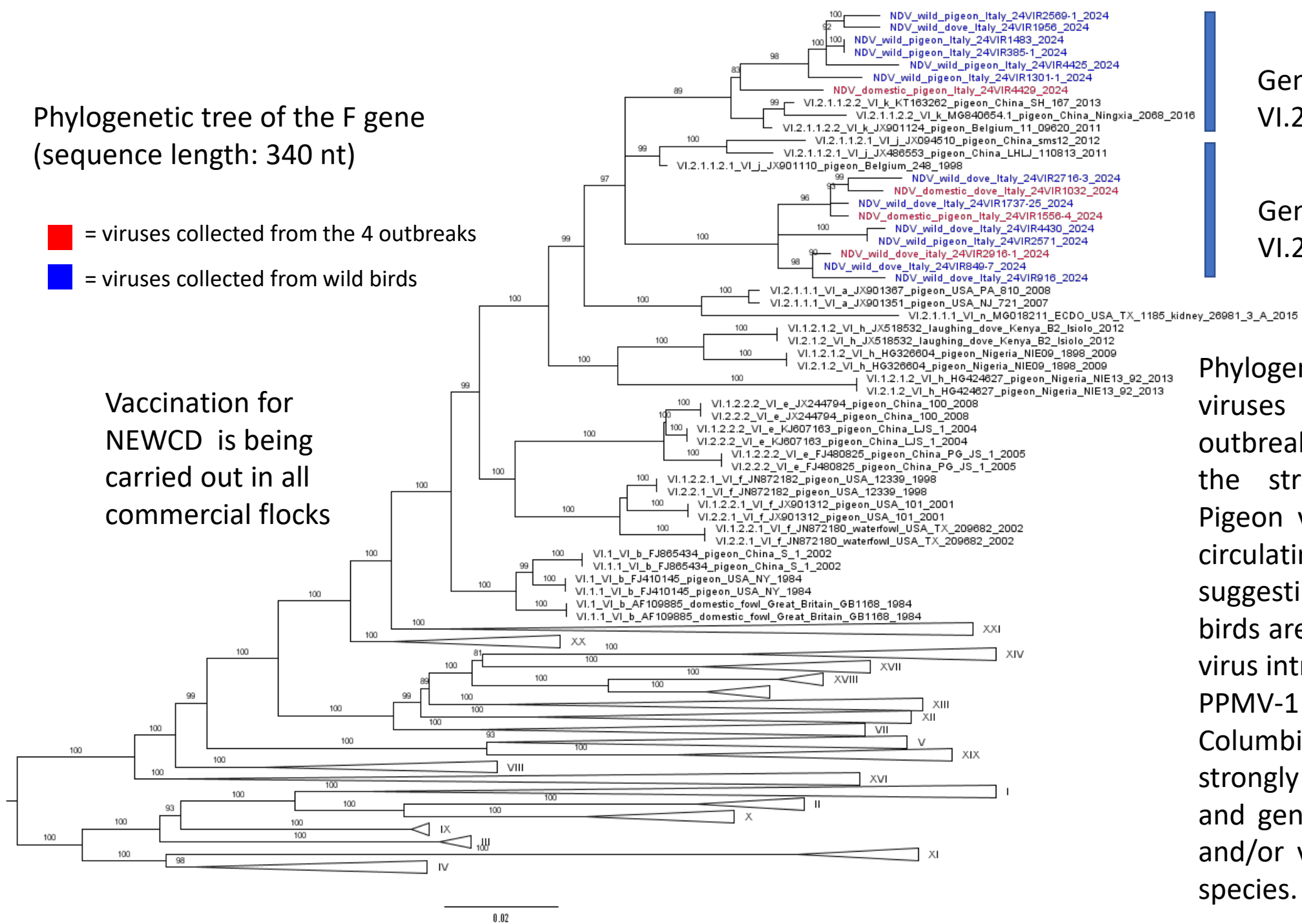
Newcastle disease outbreaks – ADIS key features

n	ADIS reference	Region	Province	Species	Virus Subtype	Confirmation date
1	IT-ND-2024-00001	VENETO	VICENZA	Domestic pigeon	PPMV-1	2024-02-28
2	IT-ND-2024-00002	TOSCANA	LUCCA	Domestic pigeon	PPMV-1	2024-03-18
3	IT-ND-2024-00003	LAZIO	ROMA	Eurasian collared dove	PPMV-1	2024-04-12
4	IT-ND-2024-00004	EMILIA-ROMAGNA	REGGIO NELL'EMILIA	Carrier pigeon breeders	PPMV-1	2024-05-31

Phylogenetic tree of the F gene
(sequence length: 340 nt)

- = viruses collected from the 4 outbreaks
- = viruses collected from wild birds

Vaccination for
NEWCD is being
carried out in all
commercial flocks



Genotype
VI.2.1.1.2.2

Genotype
VI.2.1.1.2.1

Phylogenetic tree shows that the viruses collected from the four outbreaks are highly related to the strains belonging to the Pigeon variant (PPMV-1) of NDV circulating in wild birds, suggesting that contact with wild birds are the most likely source of virus introduction.

PPMV-1 is endemic in wild Columbiformes in Italy and strongly adapted to these species and generally not very infectious and/or virulent for other poultry species.

IT-ND-2024-00001 - Veneto region

- 22 February 2024: Amateur pigeon farm (with 45 pigeons) in the municipality of Isola Vicentina (VI) found 2 dead birds
- Dead collared doves in the surroundings of the farm reported in the previous weeks
- 28 February 2024: Presence of a NDV – Pigeon variant (PPMV-1), confirmed by NRL
- Epidemiological investigation revealed no contacts with commercial poultry farms

Disease control measures as provided by Commission Delegated Regulation (EU) 2020/687

- Epidemiological investigation
 - Culling, disposal of carcasses, cleaning and disinfection procedures
 - Establishment of protection and surveillance zones (3 and 10 km)
 - Derogation referred to in regulation (EU) 2020/687, art. 23, letter c) were applied
- Following the favorable outcome of the surveillance activities carried out, after 30 days the restriction zones were lifted

IT-ND-2024-00002 - Toscana region

- 06 March 2024: Amateur pigeon farm (with 6 pigeons) in the municipality of Seravezza (LU) found 1 dead bird
- 18 March 2024: Presence of a NDV – Pigeon variant (PPMV-1), confirmed by NRL
- Epidemiological investigation revealed no contacts with commercial poultry farms

Disease control measures as provided by Commission Delegated Regulation (EU) 2020/687

- Epidemiological investigation
 - Culling and disposal of the remaining 5 pigeons, cleaning and disinfection procedures
 - Establishment of protection and surveillance zones (3 and 10 km)
 - Derogation referred to in regulation (EU) 2020/687, art. 23, letter c) were applied
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- Request to vaccinate hobby flocks in the protection and surveillance zones
 - Following the favorable outcome of the surveillance activities carried out, after 30 days the restriction zones were lifted

IT-ND-2024-00003- Lazio region

- 04 April 2024: 21 Eurasian collared Dove farm were found dead in an aviary located in a confined establishment (Zoo) in the municipality of Rome (RM) found 1 dead bird
- 14 April 2024: Presence of a NDV – Pigeon variant (PPMV-1), confirmed by NRL
- 13 eurasian collared dove died and 41 were killed
- In the aviary are still present 42 birds of different species

Disease control measures as provided by Commission Delegated Regulation (EU) 2020/687

- Epidemiological investigation
 - Culling and disposal of the remaining collared dove, cleaning and disinfection procedures
 - Complete seizure of the aviary for 21 days (no visitors allowed)
 - Derogation referred to in regulation (EU) 2020/687, art. 21, point 3 letter a) were applied. Therefore No PZ SZ established
 - Derogation referred to in regulation (EU) 2020/687, art. 13, point 2 b) d) applied. No killing of the remaining birds in the aviary
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- vaccination program will be applied for the other bird species present in aviary
 - Following the favorable outcome of the surveillance activities carried out, may 21st the restriction were lifted

IT-ND-2024-00004 – Emilia Romagna region

- 25 May 2024: 140 racing pigeons were found dead in an establishment located in the municipality of Scandiano (RE) with 950 racing pigeons.
- 31 May 2024: Presence of a NDV – Pigeon variant (PPMV-1), confirmed by NRL

Disease control measures as provided by Commission Delegated Regulation (EU) 2020/687

- Epidemiological investigation
 - two controls (92 cloacal or tracheal swab 3% prev) . Periodical clinical controls
 - Derogation referred to in regulation (EU) 2020/687, art. 21, point 3 letter a) were applied. Therefore No PZ SZ established. No poultry establishment are within the 3 km radius.
 - Derogation referred to in regulation (EU) 2020/687, art. 13, point 2 b) d) applied. No killing of the remaining birds in the establishment due to high genetic value.
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- vaccination applied for all the pigeons in the establishment
 - until the end of August pigeons can only race going and back to the same establishment without any commingling with other racing pigeons



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Thanks for your kind attention