

Avian Influenza Report



Avian Influenza Report is a weekly report produced by the Respiratory Disease Office, Centre for Health Protection of the Department of Health. This report highlights global avian influenza activity in humans and birds.

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Summary

1. Since the previous issue of Avian Influenza Report (AIR), there were six new human cases of avian influenza A(H7N9) reported by Mainland China health authorities in Guizhou (2 cases), Hubei (1 case), Hunan (1 case), Jiangxi (1 case) and Shanghai (1 case). In addition, Health Bureau of Macao reported an imported human case of avian influenza A(H7N9) in Macao. The Centre for Health Protection (CHP) of the Department of Health confirmed one imported human case of avian influenza A(H7N9). This case is the fourth case in Hong Kong this winter and the twentieth case in Hong Kong. Since March 2013 (as of January 16, 2017), there were a total of 935 human cases of avian influenza A(H7N9) reported globally. Since November 2016 (as of January 16, 2017), 131 cases have been recorded in Mainland China. The latest case was reported on January 16, 2017.
2. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N6). Since 2014 (as of January 14, 2017), 16 human cases of avian influenza A(H5N6) were reported globally and all occurred in Mainland China. The latest case was reported on December 1, 2016.
3. There were no new human cases of avian influenza A(H5N1) reported by the World Health Organization (WHO) in 2017. From 2011 to 2015, 32 to 145 confirmed human cases of avian influenza A(H5N1) were reported to WHO annually (according to onset date). In 2016, there have been 10 cases in Egypt.*

* Since November 21, 2012, WHO only publishes information on human cases with avian influenza A(H5N1) infection in "[Influenza at human - animal interface: Monthly Risk Assessment Summary](#)". Only cases of human infection with H5N1 involved in events that are unusual or associated with potential increased risks will be reported in Disease Outbreak News. The latest [report](#) was published in December, 2016.

This week's highlights

(Sources: WHO, National Health and Family Planning Commission (NHFPC), Mainland health authorities, Ministry of Agriculture of the People's Republic of China, CHP and World Organisation for Animal Health (OIE))

Table 1. Hong Kong: Confirmed human cases of avian influenza A(H5) / avian influenza A(H7N9)

	No. of H5 cases (No. of deaths)	No. of H7N9 cases (No. of deaths)	Details
In this reporting period	0(0)	1(0)	Hong Kong: A 10-year-old boy was confirmed positive for avian influenza A(H7N9). This case is the fourth case in Hong Kong this winter. He has recovered and been discharged. He and his family travelled to Foshan, Guangdong between December 31, 2016 and January 3, 2017. During their stay in the Mainland, the patient visited a relative's home where a few live chickens were kept. (CHP, January 10 & January 11, 2017)

Table 2. Outside Hong Kong: Confirmed cases of human infection with avian influenza A(H7N9)

New cases in Mainland China since previous issue of AIR

Province / Region / Municipality	City / District / Area	Age (years)	Sex	Clinical condition at time of reporting	Date of report
Guizhou	Qiannan	52	-	-	10/01/2017
Shanghai	-	60	M	-	11/01/2017
Jiangxi	Nanchang	50	F	Critical	12/01/2017
Hunan	Yiyang	59	M	Critical	12/01/2017
Guizhou	Qiandongnan	79	-	-	16/01/2017
Hubei	Wuhan	38	M	Critical	16/01/2017

Table 3. Cumulative numbers of confirmed cases of human infection with avian influenza A(H7N9) since 2013 and since November 2016 respectively

Confirmed H7N9 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2013 (935 cases in total) (as of January 16, 2017)	Cumulative no. of cases since November 2016 (137 cases in total) (as of January 16, 2017)
Mainland China	Zhejiang Province	241	22
	Guangdong Province	210	15 [^]
	Jiangsu Province	161	57
	Fujian Province	77	3
	Shanghai Municipality	55	4
	Anhui Province	50	14
	Hunan Province	37	3
	Jiangxi Province	21	7
	Shandong Province	11	2
	Xinjiang Uygur Autonomous Region	10	-
	Beijing Municipality	9	-
	Guizhou Province	5	3
	Hebei Province	4	-
	Henan Province	4	-
	Guangxi Province	3	-
	Hubei Province	3	1
	Jilin Province	2	-
	Tianjin Municipality	2	-
Liaoning Province	1	-	
Hong Kong		20 [*]	4
Taiwan		4 [*]	-
Canada		2 [*]	-
Macao		2 [#]	2
Malaysia		1 [*]	-

* All cases imported from Mainland China

[^] Refer to Figure 1 for geographical distribution

[#] The latest case imported from Mainland China

Figure 1. Geographical distribution of human cases of avian influenza A(H7N9) reported in Guangdong since November 2016 (information as of January 16, 2017)

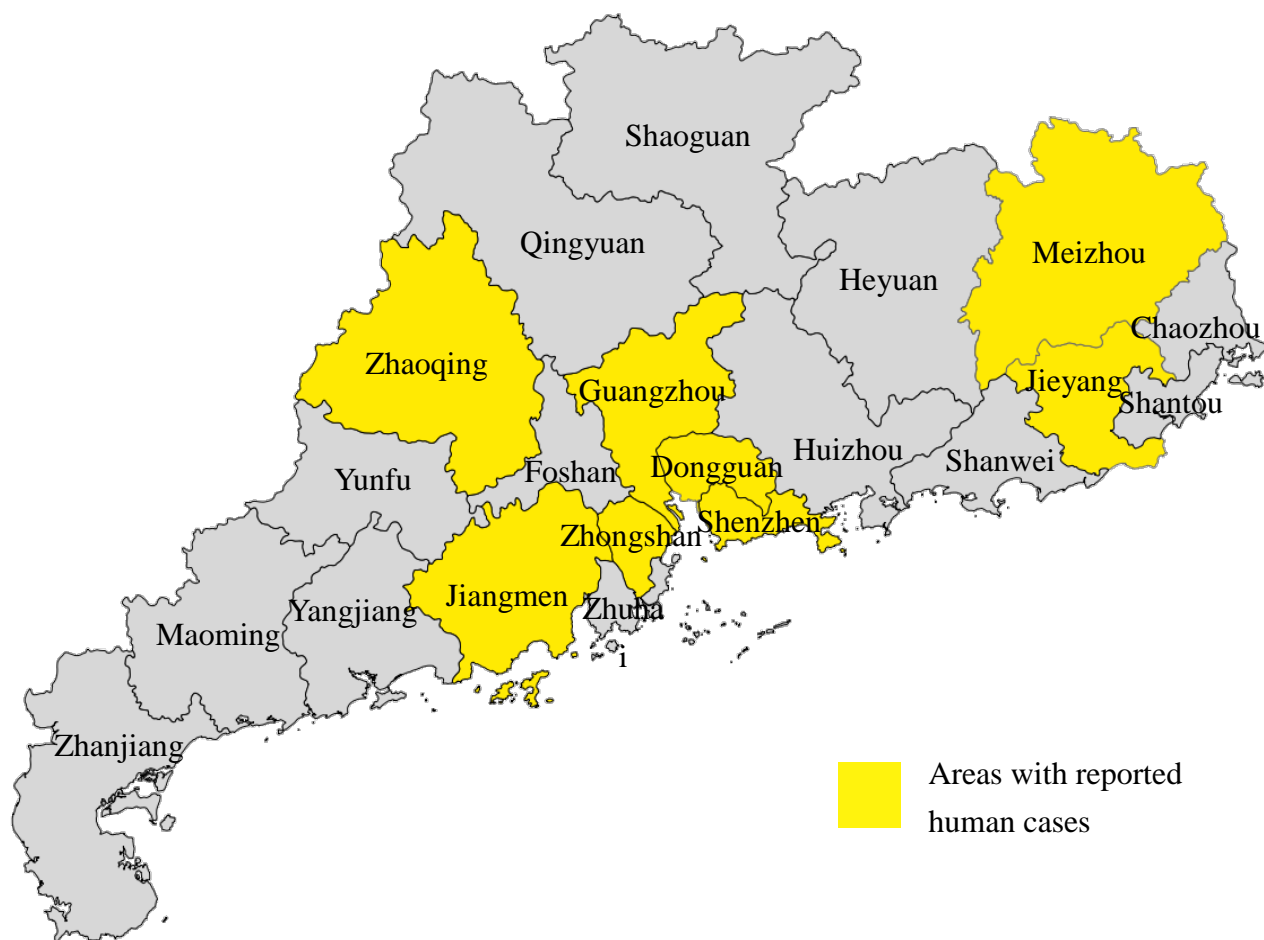


Table 4. Outside Hong Kong: Confirmed cases of human infection with avian influenza A(H5N6)

	Place of occurrence	No. of cases (No. of deaths)	Province / Region / Municipality	City / District / Area	Age (years)	Sex	Condition at time of reporting	Date of report
New cases	-	0(0)	-	-	-	-	-	-

Table 5. Cumulative number of confirmed cases of human infection with avian influenza A(H5N6) since 2014 and since November 2016 respectively

Confirmed H5N6 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2014 (16 cases in total) (as of January 14, 2017)	Cumulative no. of cases since November 2016 (2 case in total) (as of January 14, 2017)
Mainland China	Guangdong	6	-
	Hunan	3	1
	Yunnan	2	-
	Anhui	1	-
	Hubei	1	-
	Jiangxi	1*	-
	Sichuan	1	-
	Guangxi Zhuang Autonomous Region	1	1

* imported case from Guangdong

Table 6. Outside Hong Kong: Confirmed human cases of avian influenza A(H5N1)

	Place of occurrence	No. of cases (No. of deaths)	Details
New cases	-	0(0)	-

For the cumulative no. of human cases by place, please refer to [WHO](#) website.

Table 7. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHFPC since 2003 (by onset date) [§]

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Overall
Cases	4	46	98	115	88	44	73	48	62	32	39	52	145	10	856
Deaths	4	32	43	79	59	33	32	24	34	20	25	22	42	3	452
Case fatality rate	100%	69.6%	43.9%	68.7%	67.0%	75.0%	43.8%	50.0%	54.8%	62.5%	64.1%	42.3%	29.0%	30.0%	52.8%

[§] Further breakdown by countries is available at [WHO](#) website

Table 8. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHFPC since 2003 (by date of reporting)

Country	Cumulative no. of cases (December 2003 to January 2017)	No. of recent cases [^] (October 2016 to January 2017)
Azerbaijan	8	0
Bangladesh	8	0
Cambodia	56	0
Canada	1	0
Mainland China	53	0
Djibouti	1	0
Egypt	356	2
Indonesia	199	0
Iraq	3	0
Laos	2	0
Myanmar	1	0
Nigeria	1	0
Pakistan	3	0
Thailand	25	0
Turkey	12	0
Vietnam	127	0
Overall	856	2

[^] Details of recent cases (October 2016 to January 2017) are listed in *Table 9*.

Table 9. Details of the recent confirmed human cases of avian influenza A(H5N1) reported to WHO (October 2016 to January 2017) (Sources: WHO)

Date of report	Country	Province / Region	District / City	Sex	Age	Outcome at the time of reporting
3/10/2016	Egypt	Fayoum	-	M	3	Fatal
3/10/2016	Egypt	Giza	-	F	3	Fatal

Table 10. Outside Hong Kong: Confirmed human cases of avian influenza A infections other than avian influenza A(H5N1 / H5N6 / H7N9) reported in the past 6 months

	Place of occurrence	No. of cases (No. of deaths)	Details
In this reporting period	-	-	-
Previously reported cases (onset in the past 6 months)	Mainland China	5(0)	Avian influenza A(H9N2): <ul style="list-style-type: none"> ▫ Guangdong Province: A 4-year-old girl with onset on June 10, 2016; a 3-year-old boy with onset on July 9, 2016; and a 29-year-old woman with onset on August 8, 2016. ▫ Yunnan Province: A 10-month-old boy with onset on August 7, 2016. ▫ Jiangxi Province: A 4-year-old girl with onset on August 2, 2016.

Table 11. Hong Kong: Confirmed reports of avian influenza A(H5) or avian influenza A(H7N9) in poultry / wild birds since 2014

	No. of reports of H5 in poultry / wild birds	No. of reports of H7N9 in poultry / wild birds	Details
In this reporting period	0	0	-
Previously reported cases since 2014	8*	3 [#]	-

- * [Carcass of a peregrine falcon found in Yuen Long on April 9, 2015 \(H5N6\)](#)
[Carcass of an oriental magpie robin found in Sai Kung on April 29, 2015 \(H5N6\)](#)
[Carcass of an oriental magpie robin found in Kwai Chung on November 17, 2015 \(H5N6\)](#)
[Carcass of a great egret found in Wong Tai Sin on December 31, 2015 \(H5N6\).](#)
[Chicken carcass found in Tuen Mun on February 14, 2016 \(H5N6\)](#)
[Chicken carcass found in Tai O on February 18, 2016 \(H5N6\)](#)
[Samples of faecal droppings collected at Mai Po Nature Reserve on November 25, 2016 \(H5N6\)](#)
[A sample of faecal droppings collected at Mai Po Nature Reserve on November 30, 2016 \(H5N6\)](#)
- # [Samples from a batch of live chickens imported from a registered poultry farm in Shunde District of Foshan City in Guangdong were tested positive for H7N9 virus on January 27, 2014.](#)
[Samples from a consignment of live chickens from a registered farm in Huicheng District of Huizhou in Guangdong were tested positive for H7N9 virus on December 30, 2014.](#)
[A sample of faecal droppings of live poultry taken from a poultry stall in Yan Oi Market in Tuen Mun was tested positive for H7N9 virus on June 5, 2016.](#)

Table 12. Outside Hong Kong: Confirmed avian influenza A(H5), A(H7N9) or other highly pathogenic avian influenza in poultry / wild birds / environmental samples reported in this week – number of reports for various subtypes of virus

Subtype of virus	No. of reports
H5	4
H5N1	1
H5N2	2
H5N5	3
H5N6	1
H5N8	28

Table 13. Outside Hong Kong: Confirmed avian influenza A(H5), A(H7N9) or other highly pathogenic avian influenza in poultry / wild birds / environmental samples reported in this week – details of reports

Places of occurrence	Details	OIE Report Date
Italy	Samples from birds in Friuli-Venezia Giulia were tested positive for highly pathogenic avian influenza A (H5N5).	December 30, 2016 and January 13, 2017
	Samples from birds in Friuli-Venezia Giulia were tested positive for highly pathogenic avian influenza A (H5N8).	January 11, 2017
Croatia	Samples from birds in Sisacko-Moslavacka were tested positive for highly pathogenic avian influenza A (H5N5).	January 5, 2017
Czech Republic	Samples from poultry and birds in Jihomoravský, Středočeský and Jihočeský were tested positive for highly pathogenic avian influenza A (H5N8).	January 5 and January 14, 2017
United States	Samples from birds in Montana were tested positive for highly pathogenic avian influenza A (H5N2).	January 9, 2017
United Kingdom	Samples from poultry and birds in England, Scotland and Wales were tested positive for highly pathogenic avian influenza A (H5N8).	January 9, 2017
Sweden	Samples from birds in Kalmar län were tested positive for highly pathogenic avian influenza A (H5N8).	January 9, 2017
Finland	Samples from birds in Lounais-Suomi and Ahvenanmaan maakunta were tested positive for highly pathogenic avian influenza A (H5N8).	January 9, 2017
Poland	Samples from poultry in Lubuskie, Małopolskie, Podkarpackie, Świętokrzyskie, Opolskie and Dolnoslaskie were tested positive for highly pathogenic avian influenza A (H5N8).	January 9 and January 12, 2017
Germany	Samples from poultry and birds in Niedersachsen, Nordrhein-Westfalen, Rheinland-Pfalz, Baden-Württemberg, Bayern, Mecklenburg-Vorpommern, Sachsen-Anhalt, Hessen and Brandenburg were tested positive for highly pathogenic avian influenza A (H5N8).	January 9 and January 13, 2017
France	Samples from poultry and birds in Gers, Deux-Sèvres, Landes, Ain, Lot-et-Garonne and Hautes-Pyrénées were tested positive for highly pathogenic avian influenza A (H5N8).	January 9 and January 13, 2017 (2 reports)
	Samples from poultry in Deux-Sèvres were tested positive for low pathogenic avian influenza A (H5N1).	January 10, 2017
Taiwan	Samples from poultry in Kaohsiung City, Taipei City and Yunlin County were tested positive for highly pathogenic avian influenza A (H5N8).	January 9, 2017
	Samples from poultry in Yunlin County were tested positive for highly pathogenic avian influenza A (H5N2).	January 9, 2017

Places of occurrence	Details	OIE Report Date
Ireland	Samples from birds in Wexford were tested positive for highly pathogenic avian influenza A (H5N8).	January 10, 2017
Romania	Samples from birds in Iasi were tested positive for highly pathogenic avian influenza A (H5N8).	January 10, 2017
Spain	Samples from birds in Castilla y León were tested positive for highly pathogenic avian influenza A (H5N8).	January 11, 2017
Serbia	Samples from birds in Srbija were tested positive for highly pathogenic avian influenza A (H5N8).	January 11, 2017
Switzerland	Samples from birds in Zurich and Geneve were tested positive for highly pathogenic avian influenza A (H5N8).	January 11, 2017
Mainland China	Samples from poultry in Hunan were tested positive for highly pathogenic avian influenza A (H5N6).	January 12, 2017
Ukraine	Samples from poultry and birds in Odessa and Chernovtsy were tested positive for highly pathogenic avian influenza A (H5N8).	January 12, 2017 (2 reports)
Slovakia	Samples from birds in Kosice and Nitra were tested positive for highly pathogenic avian influenza A (H5N8).	January 12, 2017
Slovenia	Samples from birds in Maribor were tested positive for highly pathogenic avian influenza A (H5N8).	January 12, 2017
India	Samples from poultry in Kerala were tested positive for highly pathogenic avian influenza A (H5N8).	January 12, 2017
Egypt	Samples from poultry in Ash Sharqiyah were tested positive for highly pathogenic avian influenza A (H5N8).	January 12, 2017
Romania	Samples from birds in Iasi, Constanta, Prahova, Bacau and Giurgiu were tested positive for highly pathogenic avian influenza A (H5N8).	January 10 and January 12, 2017
Netherlands	Samples from birds in Utrecht were tested positive for highly pathogenic avian influenza A (H5N8).	January 12, 2017
Uganda	Samples from poultry in Masaka and Wakiso were tested positive for highly pathogenic avian influenza A (H5).	January 15, 2017 (2 reports)
Russia	Samples from poultry and birds in Krasnodarskiy Kray and Rostovskaya Oblast were tested positive for highly pathogenic avian influenza A (H5).	January 16, 2017 (2 reports)

For cumulative reports of avian influenza A(H5), A(H7N9) or other highly pathogenic avian influenza in poultry / wild birds, please refer to the [OIE](#) website.

Table 14. Countries / areas with documented avian influenza A (H7N9) or highly pathogenic avian influenza (including H5 and other subtypes) cases in the recent 6 months (including infections in humans/birds and relevant environmental samples) (as of January 16, 2017)

Country/ Area	Human cases		Poultry cases / environmental samples		Wild bird cases / others	
	Subtype of virus	Date of last report	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
Algeria	-	-	-	-	H7	02/11/2016 (H7N1)
Austria	-	-	H5	11/11/2016 (H5N8)	H5	01/12/2016 (H5N8)
Bhutan	-	-	H5	24/10/2016 (H5N1)	-	-
Bulgaria	-	-	H5	28/12/2016*	H5	22/12/2016*
Cameroon	-	-	H5	14/09/2016 (H5N1)	-	-
Cote D'Ivoire	-	-	H5	03/10/2016 (H5N1)	-	-
Croatia	-	-	H5	05/01/2017 (H5N8)	H5	18/11/2016 (H5N8) 05/01/2017 (H5N5)
Czech Republic	-	-	H5	14/01/2017 (H5N8)	H5	05/01/2017 (H5N8)
Denmark	-	-	H5	21/11/2016 (H5N8)	H5	22/12/2016 (H5N8)
Egypt	H5N1	19/07/2016	Endemic	Endemic (H5N1) 12/01/2017 (H5N8)	H5	30/11/2016 (H5N8)
Finland	-	-	-	-	H5	09/01/2017 (H5N8)
France	-	-	H5	25/07/2016 (H5N1) 09/08/2016 (H5N2) 13/01/2017 (H5N8)	H5	23/12/2016 (H5N8)
Germany	-	-	H5	13/01/2017 (H5N8)	H5	09/01/2017 (H5N8)
Ghana	-	-	H5	23/11/2016 (H5N1)	-	-
Greece	-	-	-	-	H5	23/12/2016 (H5N8)
Hong Kong	H7N9	11/01/2017 #	-	-	H5	08/12/2016 (H5N6)
Hungary	-	-	H5	29/12/2016 (H5N8)	H5	04/11/2016 (H5N8)
India	-	-	H5	12/01/2017 (H5N8) 27/12/2016 (H5N1)	H5	09/11/2016 (H5N8) 27/12/2016 (H5N1)
Indonesia	-	-	Endemic	Endemic	-	-
Iran	-	-	H5	07/01/2017 (H5N8)	H5	18/12/2016 (H5N8)
Iraq	-	-	H5	25/07/2016 (H5N1)	-	-
Ireland	-	-	-	-	H5	10/01/2017 (H5N8)
Israel	-	-	H5	25/12/2016 (H5N8)	H5	25/12/2016 (H5N8)
Italy	-	-	-	-	H5	13/01/2017 (H5N5) 11/01/2017 (H5N8)
Japan	-	-	H5	26/12/2016 (H5N6)	H5	21/11/2016 (H5N6)
Korea	-	-	H5	07/09/2016 (H5N8) 02/12/2016 (H5N6)	-	-
Laos	-	-	H5	14/10/2016 (H5N1)	-	-
Macau	H7N9	12/01/2017 #	H7	13/12/2016 (H7N9)	-	-
Mainland China						
	Anhui	H7N9	26/12/2016	-	-	-
	Fujian	H7N9	21/12/2016	-	-	-
	Gansu	-	-	H5	08/10/2016 (H5N6)	-
	Guangdong	H7N9	27/12/2016	-	-	-
	Guangxi	H5N6	08/11/2016	-	-	-
	Guizhou	H5N6 H7N9	09/11/2016 16/01/2017	H5	31/08/2016 (H5N6)	-
	Hebei	H7N9	12/08/2016	-	-	-
	Henan	H7N9	21/07/2016 ^a	-	-	-
	Hubei	H7N9	16/01/2017	H5	08/10/2016 (H5N6)	-
	Hunan	H5N6 H7N9	18/11/2016 12/01/2017	H5	12/01/2017 (H5N6)	-
	Jiangsu	H7N9	29/12/2016	-	-	-
	Jiangxi	H7N9	12/01/2017	-	-	-
	Shandong	H7N9	07/01/2017	-	-	-
	Shanghai	H7N9	11/01/2017	-	-	-
	Shanxi	-	-	-	H5	05/01/2017 (H5N8)
	Sichuan	-	-	H5	28/12/2016 (H5N6)	-
	Xinjiang	-	-	H5	28/12/2016 (H5N6)	-
	Zhejiang	H7N9	26/12/2016	-	-	-
Montenegro	-	-	-	-	H5	22/12/2016 (H5N5)
Netherlands	-	-	H7 and H5	28/12/2016 (H5N8)	H5	14/12/2016 (H5N5) 12/01/2017 (H5N8)
Nigeria	-	-	H5	28/11/2016 (H5N1)	H5	17/12/2016 (H5N8)

Country/ Area	Human cases		Poultry cases / environmental samples		Wild bird cases / others	
	Subtype of virus	Date of last report	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
				17/12/2016 (H5N8)		
Poland	-	-	H5	12/01/2017 (H5N8)	H5	23/12/2016 (H5N8)
Romania	-	-	H5	09/01/2017 (H5N8)	H5	12/01/2017 (H5N8)
Russia	-	-	H5	16/01/2017*	H5	16/01/2017*
Serbia	-	-	H5	16/12/2016 (H5N8)	H5	11/01/2017 (H5N8)
Slovakia	-	-	H5	29/12/2016*	H5	12/01/2017 (H5N8)
Slovenia	-	-	-	-	H5	12/01/2017 (H5N8)
Spain	-	-	-	-	H5	11/01/2017 (H5N8)
Sweden	-	-	H5	22/12/2016 (H5N8)	H5	09/01/2017 (H5N8)
Switzerland	-	-	-	-	H5	11/01/2017 (H5N8)
Taiwan	-	-	H5	09/01/2017 (H5N2) 09/01/2017 (H5N8)	-	-
Togo	-	-	H5	25/08/2016 (H5N1)	-	-
Tunisia	-	-	-	-	H5	01/12/2016 (H5N8)
Uganda	-	-	H5	15/01/2017*	-	-
Ukraine	-	-	H5	12/01/2017 (H5N8)	H5	12/01/2017 (H5N8)
United Kingdom	-	-	H5	09/01/2017 (H5N8)	H5	09/01/2017 (H5N8)
United States of America	-	-	-	-	H5	09/01/2017 (H5N2)
Vietnam	-	-	H5	01/07/2016 (H5N6) 02/10/2016 (H5N1)	-	-

Sources: WHO, OIE, NHFPC and other official websites # imported case from Guangdong ^ exported case to Anhui * without further subtype information