

# Avian Influenza Report

*Avian Influenza Report* is a weekly report produced by the Surveillance Division of the Communicable Disease Branch of the Centre for Health Protection. 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 no new human cases of avian influenza A(H7N9). Since March 2013 (as of October 16, 2021), there were a total of 1568 human cases of avian influenza A(H7N9) reported globally (all were reported in the seven waves between 2013 and September 2019). The latest case was reported on April 5, 2019.
2. Since the previous issue of AIR, one confirmed human case of avian influenza A(H5N6) from Hunan Province was reported by the National Health Commission (NHC).. Since 2014 (as of October 18, 2021), there were 49 human cases of avian influenza A(H5N6) reported globally and 48 of them occurred in Mainland China. The latest case was reported on October 18, 2021.
3. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N1). From 2011 to 2021, 0 to 145 confirmed human cases of avian influenza A(H5N1) were reported to WHO annually (according to onset date)\*. The latest case was reported on August 16, 2021.

\* 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 August, 2021.

## This week's highlights

(Sources: WHO, NHC, Mainland health authorities, Ministry of Agriculture of the People's Republic of China, Centre for Health Protection (CHP) and World Organisation for Animal Health (OIE))

**Table 1. Hong Kong: Confirmed human cases of avian influenza A(H5N1 / H5N6 / H7N9) since previous issue of AIR**

	No. of H5 cases (No. of deaths)	No. of H7N9 cases (No. of deaths)	Details
<b>In this reporting period</b>	0(0)	0(0)	-

**Table 2. Outside Hong Kong: Confirmed human cases of avian influenza A(H5N1 / H5N6 / H7N9) since previous issue of AIR**

Date of report	Country	Province / Region	District / City	Sex	Age	Condition at time of reporting	Subtype of virus
18/10/2021	Mainland China	Hunan	Changde	F	60	Critical	H5N6

**Table 3. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHC since 2003 (by onset date) §**

Year	Cases	Deaths	Case fatality rate
2003	4	4	100%
2004	46	32	69.6%
2005	98	43	43.9%
2006	115	79	68.7%
2007	88	59	67.0%
2008	44	33	75.0%
2009	73	32	43.8%
2010	48	24	50.0%
2011	62	34	54.8%
2012	32	20	62.5%
2013	39	25	64.1%
2014	52	22	42.3%
2015	145	42	29.0%
2016	10	3	30.0%
2017	4	2	50.0%
2018	0	0	0%
2019	1	1	100%
2020	1	0	0%
2021	1	1	100%
<b>Overall</b>	<b>863</b>	<b>456</b>	<b>52.8%</b>

§ Further breakdown by countries is available at [WHO](https://www.who.int) website

**Table 4. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHC since 2003 (by date of reporting)**

<b>Countries /Areas</b>	<b>Cumulative no. of cases (December 2003 to October 2021)</b>	<b>No. of recent cases (June 2021 to October 2021)</b>
Azerbaijan	8	0
Bangladesh	8	0
Cambodia	56	0
Canada	1	0
Mainland China	53 <sup>#</sup>	0
Djibouti	1	0
Egypt	359	0
India	1	1
Indonesia	200	0
Iraq	3	0
Lao People's Democratic Republic	3	0
Myanmar	1	0
Nepal	1	0
Nigeria	1	0
Pakistan	3	0
Thailand	25	0
Turkey	12	0
Vietnam	127	0
Overall	863	1

<sup>#</sup> Including two cases from Mainland China detected in Hong Kong

**Table 5. Cumulative numbers of confirmed cases of human infection with avian influenza A(H5N6) since 2014 and since January 2021 respectively**

<b>Confirmed H5N6 human cases have been reported in the following countries / areas</b>		<b>Cumulative no. of cases since 2014 (49 cases in total) (as of October 18, 2021)</b>	<b>Cumulative no. of cases since January 2021 (23 cases in total) (as of October 18, 2021)</b>
Mainland China	Guangdong Province	10	2
	Guangxi Zhuang Autonomous Region	10	6
	Hunan Province	8	4
	Sichuan Province	6	5
	Chongqing Municipality	3	3
	Anhui Province	2	1
	Jiangsu Province	2	0
	Yunnan Province	2	0
	Beijing Municipality	1	0
	Fujian Province	1	0
	Guizhou Province	1	1
	Hubei Province	1	0
Jiangxi Province	1*	0	
Lao People's Democratic Republic		1	1

\* Imported case from Guangdong

**Table 6. Cumulative numbers of confirmed cases of human infection with avian influenza A(H7N9) since 2013 and since October 2021 respectively**

<b>Confirmed H7N9 human cases have been reported in the following countries / areas</b>		<b>Cumulative no. of cases since 2013 (1568 cases in total) (as of October 16, 2021)</b>	<b>Cumulative no. of cases since October 2021 (0 case in total) (as of October 16, 2021)</b>
Mainland China	Zhejiang Province	310	0
	Guangdong Province	259	0
	Jiangsu Province	252	0
	Fujian Province	108	0
	Anhui Province	99	0
	Hunan Province	95	0
	Shanghai Municipality	57	0
	Jiangxi Province	52	0
	Sichuan Province	38	0
	Beijing Municipality	35	0
	Guangxi Zhuang Autonomous Region	31	0
	Hubei Province	31	0
	Hebei Province	29	0
	Henan Province	28	0
	Shandong Province	28	0
	Guizhou Province	20	0
	Xinjiang Uygur Autonomous Region	14	0
	Chongqing Municipality	9	0
	Yunnan Province	8	0
	Shaanxi Province	7	0
	Gansu Province	6	0
	Liaoning Province	5	0
	Tianjin Municipality	5	0
	Jilin Province	3	0
	Shanxi Province	3	0
Tibet Autonomous Region	3	0	
Inner Mongolia Autonomous Region	2	0	
Hong Kong		21*	0
Taiwan		5*	0
Canada		2*	0
Macao		2 <sup>#</sup>	0
Malaysia		1*	0

\* All cases imported from Mainland China

<sup>#</sup> The latest case imported from Mainland China

**Table 7. Confirmed human cases of avian influenza A infections other than avian influenza A(H5N1 / H5N6 / H7N9) reported in the past 6 months (as of October 18, 2021)**

	<b>Place of occurrence</b>	<b>No. of cases (No. of deaths)</b>	<b>Details</b>
<b>In this reporting period</b>	-	0(0)	-
<b>Previously reported cases (onset/ reported in the past 6 months)</b>	<b>Mainland China</b>	8(0)	<p><b>Avian influenza A(H9N2):</b></p> <ul style="list-style-type: none"> <li>▪ <b>Fujian Province:</b> <ul style="list-style-type: none"> <li>▫ A 10-year-old boy with onset on January 28, 2020 was reported on April 16, 2021.</li> </ul> </li> <li>▪ <b>Guangdong Province:</b> <ul style="list-style-type: none"> <li>▫ A 30-year-old woman with onset on April 20, 2021.</li> <li>▫ A 3-year-old girl with onset on September 26, 2021.</li> </ul> </li> <li>▪ <b>Sichuan Province:</b> <ul style="list-style-type: none"> <li>▫ A 2-year-old boy with onset on April 27, 2021.</li> </ul> </li> <li>▪ <b>Jiangsu Province:</b> <ul style="list-style-type: none"> <li>▫ A 78-year-old female with onset on May 31, 2021.</li> </ul> </li> <li>▪ <b>Hunan Province:</b> <ul style="list-style-type: none"> <li>▫ A 20-month-old girl with onset on August 23, 2021.</li> </ul> </li> <li>▪ <b>Guizhou Province:</b> <ul style="list-style-type: none"> <li>▫ A 11-year-old boy with onset on September 6, 2021.</li> </ul> </li> </ul> <p><b>Avian influenza A(H10N3):</b></p> <ul style="list-style-type: none"> <li>▪ <b>Jiangsu Province:</b> <ul style="list-style-type: none"> <li>▫ A 41-year-old man with onset on April 23, 2021.</li> </ul> </li> </ul>
	<b>Cambodia</b>	1(0)	<p><b>Avian influenza A(H9N2):</b></p> <ul style="list-style-type: none"> <li>▪ A 3-year-old boy was reported on April 2, 2021.</li> </ul>

**Table 8. Hong Kong: Confirmed reports of avian influenza A(H5) or avian influenza A(H7N9) in poultry / wild birds / environmental samples since 2015**

	No. of reports of H5 in poultry / wild birds / environmental samples	No. of reports of H7N9 in poultry / wild birds / environmental samples	Details
<b>In this reporting period</b>	0	0	-
<b>Previously reported cases since 2015 (before this reporting period)</b>	18*	1#	-

- \* [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 \(H5N6\)](#)  
[A dead red-whiskered bulbul collected at Kowloon City on April 7, 2017 \(H5N6\)](#)  
[A dead oriental magpie robin found in Tseung Kwan O on December 21, 2017 \(H5N6\)](#)  
[A dead black-faced spoonbill found in the Hong Kong Wetland Park in Tin Shui Wai on December 21, 2017 \(H5N6\)](#)  
[An environmental swab of a chopping board and skin swabs of a chilled duck sample taken from a fresh provision shop in Wan Chai on 2 January & 9 January, 2018 \(H5N6\)](#)  
[An oropharyngeal swab from a batch of chilled chicken taken at a fresh provision shop in Mong Kok, reported on 23 January, 2018 \(H5N6\)](#)  
[A black-headed gull carcass found in Ngau Hom Tsuen, Lau Fau Shan on February 8, 2018 \(H5N6\)](#)  
[A dead crested myna found at Kun Lung Wai, Fanling reported on April 9, 2018 \(H5N6\)](#)  
[A swab sample taken from a bird cage housing a hill myna at a pet bird shop in Yuen Po Street Bird Garden in Mong Kok on 7 April, 2018 \(H5N6\)](#)  
[Samples of faecal droppings collected at Mai Po Nature Reserve reported on January 14, 2021 \(H5N8\)](#)  
[Carcass of a peregrine falcon found in Wu Kai Sha reported on February 1, 2021 \(H5N8\)](#)
- # [A sample of faecal droppings of live poultry taken from a poultry stall in Yan Oi Market in Tuen Mun reported on June 5, 2016 \(H7N9\)](#)

**Table 9. Outside Hong Kong: Confirmed avian influenza A(H5) 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	9
H5N1	6
H5N8	6

**Table 10. Outside Hong Kong: Confirmed avian influenza A(H5) 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
Estonia	Samples from birds in Estonian Exclusive Economic Zone, Lääne-Viru, Hiiu, Harju, Pärnu, Saare, Lääne, Ida-Viru and Viljandi were tested positive for highly pathogenic avian influenza A(H5N8).	October 12, 2021 October 13, 2021
Finland	Samples from birds in Southern Finland, Finnish Exclusive Economic Zone, Eastern Finland and Western Finland were tested positive for highly pathogenic avian influenza A(H5N1) and A(H5N8).	October 12, 2021
	Samples from birds in Lapland were tested positive for highly pathogenic avian influenza A(H5N1).	October 12, 2021
Latvia	Samples from birds in Rojas were tested positive for highly pathogenic avian influenza A(H5N1).	October 12, 2021
	Samples from birds in Jūrmala, Engures, Ventspils City, Pāvilstas, Latvian Exclusive Economic Zone, Rīga, Mērsraga, Liepāja and Saldus were tested positive for highly pathogenic avian influenza A(H5N8).	October 12, 2021
South Africa	Samples from poultry in Western Cape, Free State, Eastern Cape, North West, Mpumalanga, KwaZulu-Natal and Gauteng were tested positive for highly pathogenic avian influenza A(H5N1).	October 12, 2021
Russia	Samples from birds in Sverdlovsk, Belgorod, Rostov, Samara, Saratov and Orenburg were tested positive for highly pathogenic avian influenza A(H5).	October 13, 2021 October 15, 2021 October 18, 2021
	Samples from poultry in Bashkortostan and Tyumen' were tested positive for highly pathogenic avian influenza A(H5).	October 13, 2021 October 15, 2021
	Samples from birds in Tyumen' were tested positive for highly pathogenic avian influenza A(H5N1).	October 14, 2021
Lao People's Democratic Republic	Samples from poultry in Xiangkhoang were tested positive for highly pathogenic avian influenza A(H5).	October 14, 2021

Serbia	Samples from birds in Grad Beograd were tested positive for highly pathogenic avian influenza A(H5N8).	October 15, 2021
Ukraine	Samples from birds in Mykolayiv were tested positive for highly pathogenic avian influenza A(H5).	October 15, 2021
Czech Republic	Samples from poultry in Stedoeský were tested positive for highly pathogenic avian influenza A(H5).	October 18, 2021
Germany	Samples from birds in Schleswig-Holstein were tested positive for highly pathogenic avian influenza A(H5N1).	October 18, 2021
Israel	Samples from poultry in HaZafon were tested positive for highly pathogenic avian influenza A(H5N1).	October 18, 2021
Luxembourg	Samples from birds in Grevenmacher were tested positive for highly pathogenic avian influenza A(H5N8).	October 18, 2021

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



**Table 11. Countries / areas with documented human infection with avian influenza A(H7N9) or highly pathogenic avian influenza (including infections in humans/birds and relevant environmental samples) in the past 6 months (as of October 18, 2021)**

Countries / Areas	Human cases		Poultry cases / other related samples		Wild bird cases / other related samples	
	Subtype of virus	Date of last report / onset of last reported case (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
Albania	-	-	H5	24/06/2021 (H5N8)	-	-
Algeria	-	-	H5	12/04/2021 (H5N8)	H5	12/04/2021 (H5N8)
Austria	-	-	-	-	H5	30/04/2021 (H5N8)
Belgium	-	-	-	-	H5	19/07/2021* 15/09/2021 (H5N8)
Benin	-	-	H5	09/09/2021*	-	-
Botswana	-	-	H5	06/09/2021 (H5N1)	-	-
Bulgaria	-	-	H5	12/07/2021*	-	-
Cote D'Ivoire	-	-	H5	10/09/2021 (H5N1)	-	-
Croatia	-	-	H5	16/04/2021 (H5N8)	-	-
Czech Republic	-	-	H5	30/07/2021 (H5N8) 18/10/2021*	H5	12/04/2021 (H5N5) 29/06/2021 (H5N8)
Denmark	-	-	H5	23/07/2021 (H5N8)	H5	14/05/2021 (H5N1) 21/05/2021 (H5N3) 21/05/2021 (H5N5) 21/05/2021 (H5N8)
Egypt	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Estonia	-	-	H5	01/04/2021 (H5N8)	H5	24/08/2021 (H5N1) 13/10/2021 (H5N8)
Finland	-	-	H5	04/05/2021 (H5N8)	H5	12/10/2021 (H5N1) 12/10/2021 (H5N8)
France	-	-	H5	05/08/2021 (H5N8)	H5	04/08/2021 (H5N1) 04/08/2021 (H5N3) 09/08/2021* 07/10/2021 (H5N8)
					H7	28/09/2021 (H7N7)
Germany	-	-	H5	11/05/2021 (H5N5) 11/06/2021 (H5N1) 01/07/2021 (H5N8)	H5	02/06/2021 (H5N5) 04/06/2021 (H5N4) 11/06/2021 (H5N3)

Countries / Areas	Human cases		Poultry cases / other related samples		Wild bird cases / other related samples	
	Subtype of virus	Date of last report / onset of last reported case (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
						11/06/2021 (H5N8) 18/10/2021 (H5N1)
Ghana	-	-	H5	21/07/2021* 05/08/2021 (H5N1)	-	-
Greece	-	-	-	-	H5	21/04/2021 (H5N8)
Hungary	-	-	H5	06/05/2021 (H5N1)	-	-
India	H5	12/06/2021(H5N1)	H5	13/09/2021 (H5N1) 23/09/2021 (H5N8)	-	-
Indonesia	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Iran	-	-	H5	14/09/2021 (H5N8)	-	-
Iraq	-	-	H5	17/06/2021 (H5N8)	-	-
Ireland	-	-	-	-	H5	16/08/2021 (H5N3)
Israel	-	-	H5	18/10/2021 (H5N1)	H5	16/04/2021 (H5N8)
Italy	-	-	H5	17/05/2021 (H5N8)	H5	15/06/2021 (H5N1) 15/06/2021 (H5N8)
Japan	-	-	H5	16/07/2021 (H5N8)	H5	09/04/2021 (H5N8)
Kazakhstan	-	-	H5	11/10/2021*	-	-
Korea	-	-	H5	26/05/2021 (H5N8)	-	-
Kuwait	-	-	H5	17/05/2021 (H5N8)	-	-
Lao People's Democratic Republic	-	-	H5	14/10/2021*	-	-
Latvia	-	-	-	-	H5	12/10/2021 (H5N1) 12/10/2021 (H5N8)
Lesotho	-	-	H5	07/07/2021*	-	-
Lithuania	-	-	H5	04/08/2021 (H5N8)	H5 H7	04/08/2021 (H5N8) 04/08/2021 (H7N7)
Luxembourg	-	-	-	-	H5	18/10/2021 (H5N8)
Mainland China						
Chongqing Municipality	H5	23/06/2021 (H5N6) 16/09/2021 (H5N6)	-	-	-	-
Guangdong	H5	31/07/2021 (H5N6) 13/09/2021 (H5N6)	-	-	-	-

Countries / Areas	Human cases		Poultry cases / other related samples		Wild bird cases / other related samples	
	Subtype of virus	Date of last report / onset of last reported case (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
Guangxi	H5	06/07/2021 (H5N6) 14/08/2021 (H5N6) 17/08/2021 (H5N6) 23/08/2021 (H5N6) 25/08/2021 (H5N6)	-	-	-	-
Hunan	H5	26/07/2021 (H5N6) 02/08/2021 (H5N6) 08/09/2021 (H5N6) 03/10/2021 (H5N6)	-	-	-	-
Liaoning	-	-	-	-	H5	14/04/2021 (H5N6)
Ningxia Hui Autonomous Region	-	-	-	-	H5	25/06/2021 (H5N8)
Shaanxi	-	-	-	-	H5	15/06/2021 (H5N8)
Sichuan	H5	13/05/2021 (H5N6) 22/06/2021 (H5N6) 25/06/2021 (H5N6) 30/06/2021 (H5N6) 13/07/2021 (H5N6)	-	-	-	-
Tibet Autonomous Region	-	-	-	-	H5	28/05/2021 (H5N8)
Mali	-	-	H5	19/05/2021 (H5N1)	-	-
Nepal	-	-	H5	27/04/2021 (H5N8)	-	-
Netherlands	-	-	H5	16/07/2021 (H5N8)	H5	17/06/2021 (H5N3) 17/06/2021 (H5N4) 04/07/2021 (H5N1) 03/09/2021 (H5N8)
Nigeria	-	-	H5	02/07/2021 (H5N1)	-	-
Norway	-	-	-	-	H5	03/09/2021 (H5N8)
Pakistan	-	-	H5	09/09/2021 (H5N8)	-	-
Poland	-	-	H5	24/09/2021 (H5N8)	H5	08/04/2021 (H5N8) 19/08/2021 (H5N1)
Romania	-	-	H5	22/04/2021 (H5N5) 21/05/2021 (H5N8)	H5	14/04/2021 (H5N5)
Russia	-	-	H5	14/04/2021 (H5N8)	H5	14/04/2021 (H5N5)

Countries / Areas	Human cases		Poultry cases / other related samples		Wild bird cases / other related samples	
	Subtype of virus	Date of last report / onset of last reported case (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
				17/09/2021 (H5N1) 15/10/2021*		14/10/2021 (H5N1) 18/10/2021*
Serbia	-	-	-	-	H5	15/10/2021 (H5N8)
Slovakia	-	-	H5	16/07/2021 (H5N1)	H5	20/09/2021 (H5N8)
South Africa	-	-	H5	21/05/2021* 08/06/2021 (H5N8) 12/10/2021 (H5N1)	H5	30/09/2021 (H5N1)
Sweden	-	-	H5	26/04/2021 (H5N5) 28/05/2021 (H5N8)	H5	29/09/2021* 29/09/2021 (H5N4) 29/09/2021 (H5N5) 29/09/2021 (H5N8) 30/09/2021 (H5N1)
Switzerland	-	-	-	-	H5	08/09/2021 (H5N4)
Taiwan	-	-	H5	06/08/2021 (H5N5) 06/09/2021 (H5N2)	H5	13/09/2021 (H5N2)
Togo	-	-	H5	30/09/2021 (H5N1)	-	-
Ukraine	-	-	-	-	H5	15/10/2021*
United Kingdom	-	-	H5	13/09/2021 (H5N1) 13/09/2021 (H5N8)	H5	13/09/2021 (H5N8) 01/10/2021 (H5N1) 01/10/2021 (H5N3) 01/10/2021 (H5N5)
Vietnam	-	-	H5	05/07/2021 (H5N1) 20/09/2021 (H5N6) 20/09/2021 (H5N8)	-	-

Sources: WHO, OIE, NHC and other official websites

\* without further subtype information