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A summary of tracking avian influenza A(H5N1) specimens and viruses shared with WHO from 2003 to 2007

Between 2003 and 2007, Member States shared 8815 human and animal specimens from avian influenza A(H5N1) suspected/confirmed cases with WHO (Data provided in the table below). From these specimens, 788 viruses were isolated and maintained in WHO laboratories. Based on these viruses, 14 viruses have been selected for further development into A(H5N1) vaccine viruses. So far, 8 reverse genetics engineered vaccine viruses, suitable for vaccine development and production, are available for distribution. 292 institutions have received one or more of the 8 WHO selected and developed vaccine viruses, and 47 institutions have received wild type vaccine viruses.

			accine virases.		Vaccine viruses			
Specimen providing country, area or territory	Year 2006	Provided to WHO	Number of specimens* (samples and isolates) received from countries through GISN	Number of virus isolates present (not including those received from other WHO labs)	Number of viruses selected for vaccine virus development	Number of recipients of RG vaccine viruses		Number of recipients of other wild type viruses
China		WHO CC Atlanta		20			1	-
1. P.	2007	WHO CC Atlanta	2	2	0	45	1	0
India	2007	WHO CC Atlanta	4	2	0	0	0	1
la da a a sia	2005	WHO CC Atlanta	128	16	1	0	4	2
Indonesia	2006	WHO CC Atlanta	368	52	0	20	3	0
	2007	WHO CC Atlanta	62	13	0	8	0	0
Iraq	2007	WHO CC Atlanta	0	0	0	0	0	1
Mongolia	2005	WHO CC Atlanta	5	0	0	0	0	1
ŭ	2007	WHO CC Atlanta	0	0	0	0	0	1
Nigeria	2006	WHO CC Atlanta	5	2	0	0	0	1
Ü	2007	WHO CC Atlanta	14	1	0	0	0	0
	2001	WHO CC Atlanta	1	1	0	0	0	0
Republic of Korea	2003	WHO CC Atlanta	1	1	0	0	0	0
	2006	WHO CC Atlanta	1	1	0	0	0	0
	2007	WHO CC Atlanta	0	0	0	0	0	2
	2004	WHO CC Atlanta	35	6	0	0	0	2
Thailand	2005	WHO CC Atlanta	18	6	0	0	0	0
	2006	WHO CC Atlanta	5	1	0	0	0	0
	2004	WHO CC Atlanta	239	66	1	0	9	6
Viet Nam	2005	WHO CC Atlanta	171	98	0	3	3	4
viet ivam	2006	WHO CC Atlanta	11	7	0	18	5	1
	2007	WHO CC Atlanta	89	74	0	20	2	0
Azerbaijan	2006	WHO CC London	79	10	0	0	0	0
Egypt	2006	WHO CC London	10	5	0	0	0	3
West Bank and Gaza Strip	2006	WHO CC London	5	0	0	0	0	0
Iraq	2006	WHO CC London	30	2	0	0	0	2
Israel	2006	WHO CC London	11	0	0	0	0	0
Serbia	2006	WHO CC London	8	0	0	0	0	0
Turkey	2006	WHO CC London	335	6	0	0	0	6
runoy	2006	WHO CC London	4	0	0	0	0	0
Nigeria	2007	WHO CC London	52	2	0	0	0	0
Pakistan	2007	WHO CC London	10	2	0	0	0	0
Poland	2008	WHO CC London	2	0	0	0	0	0
Thailand	2006	WHO CC Melbourne	2	0	0	0	0	0
TTIAIIATIU			57		0		0	
Viet Nam	2004	WHO CC Tokyo	304	8 13	0	1 1	0	6 4
	2003	WHO CC Tokyo WHO CC Tokyo	9	0	0	0	0	0
Lao People's Democratic Republic		WHO CC Tokyo	-			+		
			6	0	0	0	0	0
	2006	WHO CC Tokyo WHO CC Tokyo	31	0	0	0	0	0
Myanmar -		•	18	3	0	0	0	2
		WHO CC Tokyo	7	0	0	0	0	0
	2007	WHO CC Tokyo	15	1 7	0	0	0	0
Indonesia		WHO CC Tokyo	27	7	0	0	0	0
0	2007	WHO CC Tokyo	3	0	0	0	0	0
Cambodia		WHO CC Tokyo	5	0	0	0	0	0
<u> </u>	2003	CHP HK	32	4	0	0	6	6
China, Hong Kong		CHP HK	4	0	0	0	0	0
SAR	2005	CHP HK	24	0	0	0	0	0
	2006	CHP HK	264	0	0	0	0	0

		T	1		Vaccine viruses			
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Specimen providing country, area or territory	Year	Provided to WHO laboratory	Number of specimens* (samples and isolates) received from countries through GISN	Number of virus isolates present (not including those received from other WHO labs)	Number of viruses selected for vaccine virus development	Number of recipients of RG vaccine viruses	Number of recipients of wild type viruses	Number of recipients of other wild type viruses
	2007	CHP HK	56	0	0	0	0	0
Viet Nam	2004	CHP HK	23	7	0	0	8	8
	2005	CHP HK	10	1	0	0	0	4
	2004 2005	IP Paris IP Paris	79 261	14 8	0	0	0	0 3
Cambodia	2005	IP Paris	29	2	0	0	0	0
	2007	IP Paris	64	1	0	0	2	0
Cameroon	2006	IP Paris	5	0	0	0	0	0
Congo	2006	IP Paris	4	0	0	0	0	0
Niger	2006	IP Paris	26	3	0	0	0	0
	2006	NAMRU-3	20	8	0	0	0	0
Afghanistan	2007	NAMRU-3	25	3	0	0	0	0
Azerbaijan	2006	NAMRU-3	23	2	0	0	0	1
Cameroon	2007	NAMRU-3	2	0	0	0	0	0
Djibouti	2006	NAMRU-3	16	0	0	0	0	0
	2003	NAMRU-3	47	0	0	0	0	0
Equat	2004	NAMRU-3	117	0	0	0		0
Egypt	2005 2006	NAMRU-3 NAMRU-3	184 265	0 17	0	0	0	0
	2007	NAMRU-3	145	9	0	0	0	0
	2005	NAMRU-3	36	0	0	0	0	0
Iraq	2006	NAMRU-3	129	14	0	0	0	1
Jordan	2006	NAMRU-3	4	1	0	0	0	0
Kazakhstan	2005	NAMRU-3	3	2	0	0	0	0
Kenya	2006	NAMRU-3	2	0	0	0	0	0
Lebanon	2005	NAMRU-3	2	0	0	0	0	0
Lebanon	2006	NAMRU-3	10	0	0	0	0	0
Saudi Arabia	2006	NAMRU-3	4	0	0	0	0	0
Ukraine	2006	NAMRU-3	120	4	0	0	0	0
Cambodia	2007	NIBSC	0	0	1	0	0	0
China, Hong Kong SAR	2003	NIBSC	0	0	1	23	0	0
Turkey	2005	NIBSC	0	0	1	36	0	0
Viet Nam	2004	NIBSC	0	0	1	79	0	0
China	2005	SJCRH	0	0	1	11	1	0
China, Hong Kong	2003	SJCRH	0	0	1	3	0	0
SAR	2006	SJCRH	0	0	2	1	0	0
Israel	2006	SJCRH	2	2	0	0	0	0
Kuwait	2007	SJCRH SJCRH	1 5	<u> </u>	0	0	0 1	0
Laos	2006 2007	SJCRH	39	39	0	0	0	0
Mongolia	2007	SJCRH	0	0	1	9	0	0
Pakistan	2007	SJCRH	3	3	0	0	0	0
Saudi Arabia	2007	SJCRH	1	1	0	0	0	0
	2008	SJCRH	1	1	0	0	0	0
Thailand	2005	SJCRH	3	3	0	0	0	0
Viet Nam	2004	SJCRH	0	0	1	14	1	0
Indonesia	2004	UHK	16	12	0	0	0	13
	2005	UHK	3829	43	0	0	0	20
Kuuroit	2006 2007	UHK UHK	341 14	28 7	0	0	0	4 0
Kuwait Malaysia	2007	UHK	14	2	0	0	0	2
	2004	UHK	2	2	0	0	0	1
	2007	UHK	2	2	0	0	0	1
Thailand	2004	UHK	11	8	0	0	0	0
Viet Nam	2004	UHK	68	27	0	0	0	16
	2005	UHK	168	31	0	0	0	6
	2006	UHK	23	10	0	0	0	2
	2007	UHK	36	33	0	0	0	1
	SUM		8815	788	14	292	47	134

^{*} Specimens include samples and isolates from humans, animals and the environment, from suspected and confirmed cases.

Global Influenza Surveillance Network; lab - laboratory; RG - reverse genetics; WHO CC Atlanta - WHO Collaborating Centre for the Surveillance, Epidemiology and Control of Influenza, Centers for Disease Control and Prevention, Atlanta, Georgia, USA; WHO CC London - WHO Collaborating Centre for Reference and Research on Influenza, National Institute for Medical Research, London, UK; WHO CC Melbourne - WHO Collaborating Centre for Reference and Research on Influenza, National Institute of Infectious Diseases, Tokyo, Japan; CHP HK - Centre for Health Protection, Kowloon, Hong Kong (SAR); IP Paris - Unité de Génétique Moléculaire des Virus Respiratoires, Institut Pas