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Supplementary Material

Prevalence of Avian influenza H9N2 Virus among Wild and Domesticated Bird Species across Pakistan

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Supplementary Table I.- Distribution of AIV ELISA positive serum samples across different cities of Pakistan in year 2013.

City	Jan n=24	Feb n=21	Mar n=23	Apr n=22	May n=43	Jun n=24	Jul n=16	Aug n=41	Sep n=6	Oct n=5	Nov n=15	Dec n=12	Total n=252
Abbottabad	0%	4.8%	13.0%	9.1%	0%	0%	12.5%	2.4%	0%	0%	0%	0%	9
Bannu	0%	0%	0%	0%	14%	0%	6.3%	0%	0%	0%	0%	0%	7
Chackadar	0%	4.8%	0%	0%	7%	0%	0%	0%	0%	0%	0%	0%	4
Charsada	0%	0%	0%	0%	2.3%	0%	0%	0%	0%	0%	0%	0%	1
Dadu	16.7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4
Darbar Adenzai	4.2%	4.8%	0%	0%	2.3%	0%	0%	0%	0%	0%	0%	0%	3
Dhok Banda	0%	0%	2	0%	0%	0%	0%	0%	0%	0%	0%	0%	2
Faisal Abad	0%	4.8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1
Gadar	0%	4.8%	0%	0%	2.3%	0%	0%	0%	0%	0%	0%	0%	2
Ghotki	0%	0%	0%	2	0%	0%	0%	7.3%	16.7%	0%	0%	0%	6
Gulabad	4.2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1
Huwaid	0%	0%	4.3%	0%	2.3%	0%	0%	0%	0%	0%	0%	0%	2
Islamabad	0%	0%	4.3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1
Jamshoro	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	33.3%	0%	5
Jandikhel	0%	0%	8.7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2
Kakki	0%	0%	8.7%	0%	2.3%	0%	0%	0%	0%	0%	0%	0%	3
Karachi	41.7%	8	0%	9.1%	0%	58.3%	56.3%	24.4%	83.3%	40%	60%	83.3%	79
Khawajal	4.2%	0%	0%	0%	2.3%	0%	0%	0%	0%	0%	0%	0%	2
Lowe Dir	0%	0%	0%	0%	9.3%	0%	0%	0%	0%	0%	0%	0%	4
Manshera	0%	0%	4.3%	18.2%	2.3%	0%	6.3%	0%	0%	0%	0%	0%	7
Mardan	0%	0%	0%	18.2%	0%	0%	0%	0%	0%	0%	0%	0%	4
Mitawala	0%	0%	8.7%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2
Quetta	29.2%	6	34.8%	27.2%	44.1%	37.5%	18.8%	17.1%	0%	0%	0%	0%	65
Rawalpindi	0%	0%	0%	0%	0%	4.2%	0%	0%	0%	0%	0%	0%	1
Safrona	0%	4.8%	0%	0%	2.3%	0%	0%	0%	0%	0%	0%	0%	2
Sargodha	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	6.7%	0%	1
Shamsikhel	0%	0%	4.3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1
Sukkar	0%	0%	0%	9.1%	0%	0%	0%	0%	0%	60%	0%	16.7%	7
Swat	0%	0%	0%	0%	4.7%	0%	0%	0%	0%	0%	0%	0%	2
Tharparkar	0%	0%	0%	0%	0%	0%	0%	48.8%	0%	0%	0%	0%	20
Tindodog	0%	4.8%	0%	0%	2.3%	0%	0%	0%	0%	0%	0%	0%	2

Supplementary Table II.- Distribution of AIV ELISA positive serum samples of different avian subtypes (H5, H7 and H9) during the year 2013 across various regions of Pakistan.

Locations	Jan			Feb			Mar	Apr			May			Jun	Jul	Aug	Sep	Oct			Nov		Dec
	H5	H7	H9	H5	H7	H9	H9	H5	H7	H9	H5	H7	H9	H9	H9	H9	H9	H5	H7	H9	H7	H9	H9
Abbottabad						6	1.4± 0.7*			3.83					6.9± 3.3*	6.2							
Bannu															2.5								
Chakadara						10																	
Dhok bandas							1.66±1.4*																
Darbaradenzai						8.6																	
Faisalabad				4.6	3	7.5																	
Gadar						9.5																	
Ghotki																1.9± 0.8*	2.3						
Huwaid							7.7																
Islamabad							4.5																
Jandikhel							6.7± 0.9*																
Kakki							5.5± 0.8*																
Karachi	3.8	1.8± 2.8*	7.3± 2.3*	2.8± 0.5*	2.5± 0.6*	5.8± 4*								5.5± 1.2	4.4± 1.7*	2.7± 1.3*		4.5	3.5	6± 4.3*		3.1± 1.2*	3± 1.5*
Mansehra							9.5	3.6	3.5	4.7± 3.5*	3	3	9		5								
Mitawala							1±0*																
Quetta							4.3± 0.3*							7.4	3± 0.5*	7.2± 1.2*							
Rawalpendi																							
Safrona						10																	
Sargodha																					4		
Shamsikhel							7.7																
Sukkar																							
Therparkar																2.7± 1.2*							
Tindodog						9.7																	

*Values show the average for HI antibody titer (M $\log_2$); ± shows standard deviation (SD); Values of HI antibody titer (MT $\log_2$) >4 were considered as positive.