

**Table 3.** Unconditional associations between the outcome variable (virus isolation positive) and the 11 explanatory variables in PDS

Variable	AIV positive	Bird	OR (95%CI)	P-value (ANOVA)
<b>District</b>				
Binh.Minh	25	164	Ref	<0.001
Long.Ho	35	189	1.26(0.72 - 2.22)	
Mang.Thit	6	150	0.23(0.09 - 0.58)	
Tam.Binh	75	178	4.05(2.41 - 6.81)	
<b>Species</b>				
Chicken	38	397	Ref	<0.001
Duck	103	196	10.46(6.76 - 16.19)	
Environment	0	18	NA	
Goose	0	3	NA	
Muscovy duck	0	67	NA	
<b>Mix species</b>				
No	2	40	Ref	0.004
Yes	139	641	5.26(1.25 - 22.08)	
<b>Gender</b>				
Female	139	551	Ref	<0.001
Male	2	130	0.05(0.01 - 0.19)	
<b>Year old</b>				
31-40	0	90		<0.001
41-50	2	128	Ref	
51-60	138	348	41.4(10.07 - 170.13)	
>60	1	115	0.55(0.05 - 6.18)	
<b>Career experience (year)</b>				
1-5	0	149	NA	<0.001
6-10	25	94	Ref	
>10	116	438	0.99(0.6 - 1.65)	
<b>Selling poultry meat</b>				
No	85	492	Ref	<0.001
Yes	56	189	2.02(1.36 - 2.98)	
<b>Working area</b>				
Within commune	0	30	NA	<0.001
Within district	6	120	Ref	
Within province	25	198	2.75(1.09 - 6.9)	
Interprovincial	110	333	9.37(4 - 21.97)	
<b>Working range (km)</b>				
<10	6	100	Ref	<0.001
10-50	0	104	NA	
51-100	27	213	2.27(0.91 - 5.7)	
101-200	0	75	NA	
201-500	108	189	20.89(8.72 - 50.07)	
<b>Frequency of poultry gathering</b>				
once per day	33	492	Ref	<0.001
twice per day	41	92	11.18(6.5 - 19.23)	
thrice per day	67	97	31.06(17.8 - 54.22)	
<b>Flock size (head)</b>				
<50	6	179	Ref	<0.001
50-100	2	40	1.52(0.29 - 7.81)	
101-500	2	124	0.47(0.09 - 2.38)	
501-1000	107	259	20.3(8.67 - 47.52)	
>1000	24	79	12.58(4.89 - 32.36)	