

Supplemental table 3(a). H5N8 HPAI- challenged ostriches

Day	#17 (challenged)				#18 (challenged)				#19 (challenged)				Mean shedding***	
	Clinical signs	Temp. °C	Tracheal shedding Log ₁₀ EID ₅₀ / ml (Ct)	Cloacal shedding Log ₁₀ EID ₅₀ / ml (Ct)	Clinical signs	Temp. °C	Tracheal shedding Log ₁₀ EID ₅₀ / ml (Ct)	Cloacal shedding Log ₁₀ EID ₅₀ / ml (Ct)	Clinical signs	Temp. °C	Tracheal shedding Log ₁₀ EID ₅₀ / ml (Ct)	Cloacal shedding Log ₁₀ EID ₅₀ / ml (Ct)	Tracheal Log ₁₀ EID ₅₀ / ml	Cloacal Log ₁₀ EID ₅₀ / ml
1	normal	39.5	6.73 (17.71)	1.07 (37.04)	normal	40.3	5.80 (20.89)	0	normal	39.1	3.32 (29.36)	0	6.30	1.06
2	normal	39.5	4.99 (23.65)	1.51 (35.54)	normal	39.9	4.40 (25.68)	0	normal	40	2.57 (31.90)*	0	4.62	1.5
3	normal	39.9	5.08 (23.37)	0	normal	39.4	4.57 (25.08)	0	normal	40	4.68 (24.71)	0.91 (37.58)	4.83	0.91
4	normal	39.6	5.59 (21.61)	1.19 (36.63)	normal	40.2	5.96 (20.35)	0	normal	40.5	5.68 (21.30)	1.75 (34.71)	5.77	1.55
5 [§]	normal	40	4.51 (25.31)**	1.86 (34.32)	mild unilateral conjunctivitis	40.2	4.99 (23.65)	0	normal	40.4	5.74 (21.09)	3.46 (28.88)	5.36	3.17
6	normal	39.8	4.11 (26.92)	2.11 (33.39)	mild unilateral conjunctivitis	40.8	5.93 (20.84)	3.39 (29.00)	normal	40.5	6.28 (19.67)	3.08 (30.20)	5.96	3.10
7	normal	40.6	5.12 (23.56)	2.43 (32.31)	mild conjunctivitis	40.8	6.09 (20.31)	3.84 (27.50)	normal	40.1	5.92 (20.87)	3.06 (30.16)	5.86	3.44
8	normal	40.2	4.32 (26.23)**	2.25 (32.92)	mild unilateral conjunctivitis	40.6	5.61 (21.91)	4.68 (24.63)	normal	40.1	4.75 (24.79)	3.83 (27.52)	5.21	4.26
9	normal	39.9	4.42 (25.51)*	2.53 (31.94)	mild unilateral conjunctivitis, haemorrhages on third eyelid	40	5.28 (22.56)	4.15 (26.44)	normal	39.6	5.52 (21.75)	4.18 (26.32)	5.26	3.99
10 [§]	normal	40.1	2.83 (30.94)*	2.41 (32.37)	conjunctivitis, haemorrhages on tongue/epiglottis and third eyelid	40.3	4.87 (23.96)	4.21 (26.21)	normal	39.6	4.80 (24.21)	3.53 (28.54)	4.66	3.82
11 [§]	normal	39.7	3.27 (29.42)*	1.55 (35.29)	mild unilateral conjunctivitis, haemorrhages on third eyelid	40.4	4.28 (25.97)	4.29 (25.94)	normal	39.1	4.60 (24.89)	4.24 (26.12)	4.31	4.09
12	normal	39.6	1.45 (35.43)*	1.34 (35.80)	mild conjunctivitis	40.1	4.56 (24.82)	1.85 (34.05)	normal	39.1	4.68 (24.42)	3.45 (28.61)	4.45	2.99
13	normal	39.1	2.02 (33.49)*	0	mild conjunctivitis	40.2	4.04 (26.92)	4.20 (26.06)	weakness and incoordination, torticollis	39.6	4.11 (26.36)**	2.55 (31.66)	3.90	3.90
14 [§]	normal	40.2	3.54 (28.29)*	0	tracheitis, mild unilateral conjunctivitis	40.6	3.37 (28.89)	2.21 (32.83)	weakness and incoordination, torticollis	39.7	3.22 (29.38)	2.83 (30.72)	3.40	2.62

[§]green urine present; boldface- fever; *Virus isolation negative; **Virus isolation positive; *** Only applicable to positive animals; NA Not Applicable

Supplemental table 3(b). H5N8 HPAI- contact ostriches

Day	Clinical signs	#20 (contact)			#21 (contact)			#22 (contact)			Mean shedding***		
		Temp. °C	Tracheal shedding Log ₁₀ EID ₅₀ / ml (Ct)	Cloacal shedding Log ₁₀ EID ₅₀ / ml (Ct)	Clinical signs	Temp. °C	Tracheal shedding Log ₁₀ EID ₅₀ / ml (Ct)	Cloacal shedding Log ₁₀ EID ₅₀ / ml (Ct)	Clinical signs	Temp. °C	Tracheal shedding Log ₁₀ EID ₅₀ / ml (Ct)	Cloacal shedding Log ₁₀ EID ₅₀ / ml (Ct)	Tracheal Log ₁₀ EID ₅₀ / ml
1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2	normal	40.2	NS	NS	normal	39.6	NS	NS	normal	40.1	NS	NS	NS
3	normal	40	0	1.24 (36.45)	normal	39.9	0	0	normal	40	0	0	0
4	red trachea	40.3	0	0.94 (37.48)	normal	39.9	0	0	normal	40	0	0	0
5 [§]	red trachea	40.7	5.98 (20.27)	0	normal	40.1	1.26 (36.37)*	0	normal	40.1	0	0	5.68
6	red trachea	40.3	5.39 (22.65)	0	normal	39.8	1.18 (36.70)	2.72 (31.32)	normal	40	1.32 (36.27)	0	4.91
7	red trachea	40.7	3.96 (27.43)**	0	normal	40.1	1.31 (36.31)*	1.09 (36.86)	tracheitis	40.2	1.05 (37.17)*	0	3.49
8	normal	40.3	5.93 (20.84)	1.50 (35.48)	normal	40.3	4.01 (27.28)**	0	normal	40.4	3.55 (28.80)**	0.75 (38.04)	5.46
9	normal	41.1	3.26 (29.45)**	6.63 (17.97)	normal	40.2	6.12 (19.71)	2.00 (33.75)	normal	40.6	6.26 (19.21)	0.43 (39.10)	6.02
10 [§]	normal	41	6.37 (18.86)	3.73 (27.87)	normal	40.3	6.14 (19.65)	1.69 (34.80)	mild unilateral conjunctivitis	40.5	6.37 (18.84)	0.27 (39.65)	6.31
11 [§]	severe haemorrhages on inner eyelids and nostrils, blood on tracheal swab; died	39.4	6.21 (19.41)	5.08 (23.26)	normal	40.7	5.69 (21.18)	3.23 (29.57)	mild unilateral conjunctivitis, tracheitis	40.6	5.75 (20.97)	2.93 (30.60)	5.95
12					normal	41.1	4.96 (23.45)	4.54 (24.88)	normal	40.4	6.26 (19.01)	3.09 (29.84)	5.98
13					severe conjunctivitis, nasal haemorrhages, tracheitis, blood on both swabs, died	39	4.70 (24.33)	4.79 (24.03)	normal	39.2	5.08 (23.06)	3.49 (28.47)	4.93
14 [§]									normal	40.4	4.20 (26.04)	4.80 (23.99)	4.20

[§]green urine present; NS- not sampled; boldface- fever; *Virus isolation negative; **Virus isolation positive; *** Only applicable to positive animals; NA Not Applicable