

Additional file 5: Parameter values used in within-farm transmission models.

Reference	Subtype	Average duration of the latent period (days)		Average duration of the infectious period (days)		Transmission parameter (day ⁻¹)		Case fatality risk (%)		Reproduction number	
		Value	Sources	Value	Sources	Value	Sources	Value	Sources	Value	Sources
Tiensin et al. [31]	H5N1 HP	-	-	Min: 1 Max: 4	[94–97]	Min: 0.60 (0.43-0.84) Max: 2.30 (1.92-2.76)	Estimated	100	[98, 99]	Min: 2.18 (1.94-2.46) Max: 3.49 (2.70-4.50)	Estimated
Ssematimba et al. [54]	H5N2 HP	1	[100, 101]	4	[100, 101]	3.2 (2.3-4.3)	Estimated	100	[100–105]	12.8 (9.2-17.2)	Estimated
Bonney et al. [55]	H5N2 LP	0.63	[106–108]	11.78	[93, 106–110]	Min: 0.5 (0.4-1.0) Max: 6.0 (1.2-5.8)	Estimated	1	Assumed	-	-
Hobbelen et al. [59]	H5N8 HP	Min: 1 Max: 2	[111–113]	Min: 1.1 Max: 8.5	[111–123]	Min: 0.95 (0.3-2.3) Max: 34.4 (27.3-44.1)	Estimated	Min: 20 Max: 100	[111–123]	-	-
Vergne et al. [61]	H5N8 HP	0.17 (0.03-0.38)	Estimated	4.3 (2.8-5.7)	Estimated	4.1 (2.8-5.8)	Estimated	70 (61-78)	Estimated	17.5 (9.4-29.3)	Estimated
Gonzales et al. [63]	H7N3 LP	-	-	Min: 7.69 (5.88-11.11) Max: 9.09 (6.25-20.0)	Estimated	Min: 0.50 (0.45-0.55) Max: 0.72 (0.68-0.77)	Estimated	0	Assumed	Min: 4.7 (3.0-8.6) Max: 5.6 (4.3-7.7)	Estimated
Bos et al. [69]	H7N7 HP	-	-	Min: 4 Max: 15	[124]	4.50 (2.68-7.57)	Estimated	70	[124]	-	-
Backer et al. [70]	H7N7 HP	1	[124–126]	4	[124, 125, 127]	1.9 (0.61-8.1)	Estimated	70	[124, 125]	7.6	Estimated

When several values were used, minimum and maximum values are indicated. For estimated parameter values, the mean and 95% confidence interval (or median and 95% credible interval for Vergne et al. [61]) are indicated. The unit of the transmission parameter β was always day⁻¹, as all models assumed frequency-dependent contact rates and homogenous mixing between birds within a farm. All articles were population-based models, except the metapopulation model of Backer et al. [70].