

Table 3. Microscopic lesions in trachea on days 3, 7, and 14 post intraocular inoculation with low path H7N2 avian influenza virus isolates from Delmarva region in 2004. Trial 1 and Trial 2.

		Day post inoculation											
		DE/Hobo			MD/Minh Ma			DE/Viva			PA/1997		
		3	7	14	3	7	14	3	7	14	3	7	14
Trial 1	Lesion												
SPF leghorn	Cilial loss	- <sup>A</sup>	-	-	-	-	-	-	-	-	-	-	-
	Heterophilic infiltration	-	-	-	-	-	-	-	-	-	-	-	-
	Luminal exudate	-	-	-	-	-	2.0 <sup>B</sup> (1/5) <sup>C</sup>	-	-	-	-	-	-
Broiler	Cilial loss	-	2.5 (2/5)	-	3.5 (4/5)	3.6 (5/5)	2.5 (2/5)	2.4 (5/5)	3.6 (5/5)	-	2.0 (1/4)	3.0 (1/5)	3.0 (1/5)
	Heterophilic infiltration	-	1.0 (2/5)	-	1.5 (4/5)	1.0 (3/5)	-	1.8 (5/5)	1.0 (2/5)	-	-	1.0 (1/5)	-
	Luminal exudate	-	-	-	2.0 (3/5)	-	-	1.7 (4/5)	2.0 (1/5)	-	-	-	-
Turkey	Cilial loss	-	3.2 (4/5)	4.0 (1/5)	2.0 (1/5)	4.0 (5/5)	-	-	-	1.5 (2/5)	-	-	-
	Heterophilic Infiltration	-	1.0 (4/5)	1.0 (1/5)	2.0 (1/5)	1.4 (5/5)	-	-	-	-	-	-	-
	Luminal Exudate	-	2.0 (3/5)	-	1.0 (1/5)	2.2 (3/5)	-	-	-	-	-	-	-
Trial 2													
SPF leghorn	Cilial loss	-	-	-	-	-	-	-	-	-	-	-	-
	Heterophilic Infiltration	-	-	-	-	-	-	-	-	-	-	-	-
	Luminal Exudate	-	-	-	-	-	-	-	-	-	-	-	-
Commercial leghorn	Cilial loss	-	-	-	-	-	-	-	-	-	-	-	-
	Heterophilic Infiltration	-	-	-	-	-	-	-	-	-	-	-	-
	Luminal Exudate	-	-	-	-	-	-	-	-	-	-	-	-

<sup>A</sup> - = No lesion.

<sup>B</sup> Mean lesion score based on the following lesion score: 1= Rare lesion; 2=Minimal lesion; 3=Moderate lesion; 4=Severe lesion.

<sup>C</sup> Number of birds with lesions/total.

Table 4. Microscopic lesions in lung on days 3, 7, and 14 post intraocular inoculation with low path H7N2 avian influenza virus isolates from Delmarva region in 2004. Trial 1 and Trial 2.

		Day post inoculation											
		DE/Hobo			MD/Minh Ma			DE/Viva			PA/1997		
		3	7	14	3	7	14	3	7	14	3	7	14
Trial 1	Lesion												
SPF leghorn	Bronchitis	- <sup>A</sup>	-	-	-	-	-	-	-	-	-	-	-
	Pneumonia	-	-	-	-	1.0 <sup>B</sup> (1/5) <sup>C</sup>	-	-	2.0 (1/5)	-	-	-	-
	Broncho-pneumonia	-	-	-	-	-	-	-	-	-	-	-	-
Broiler	Bronchitis	-	-	-	1.5 (2/5)	2.4 (5/5)	-	1.0 (2/5)	0.6 (3/5)	-	-	-	-
	Pneumonia	-	-	2.0 (1/5)	-	-	-	1.0 (1/5)	0.6 (3/5)	1.0 (4/4)	2.0 (1/5)	2.0 (4/5)	-
	Broncho-pneumonia	-	2.0 (1/5)	-	1.0 (2/5)	2.7 (5/5)	1.5 (2/5)	-	-	-	-	2.0 (1/5)	2.5 (3/5)
Turkey	Bronchitis	-	1.0 (2/5)	1.0 (3/5)	-	-	-	-	-	-	-	-	-
	Pneumonia	-	-	-	-	1.0 (1/5)	2.0 (1/5)	-	-	-	-	-	-
	Broncho-pneumonia	-	-	-	-	1.7 (2/5)	2.0 (1/5)	-	-	-	-	-	-
Trial 2													
SPF leghorn	Bronchitis	-	-	-	-	-	-	-	-	-	-	-	-
	Pneumonia	-	-	-	-	-	-	-	-	-	-	-	-
	Broncho-pneumonia	-	-	-	-	-	-	-	-	-	-	-	-
Commercial leghorn	Bronchitis	-	-	-	-	-	-	-	-	-	-	2.0 (1/5)	-
	Pneumonia	-	-	-	-	-	-	-	-	-	-	3.0 (1/5)	-
	Broncho-pneumonia	-	-	-	-	-	-	-	-	-	-	-	-

<sup>A</sup> - = No lesion.

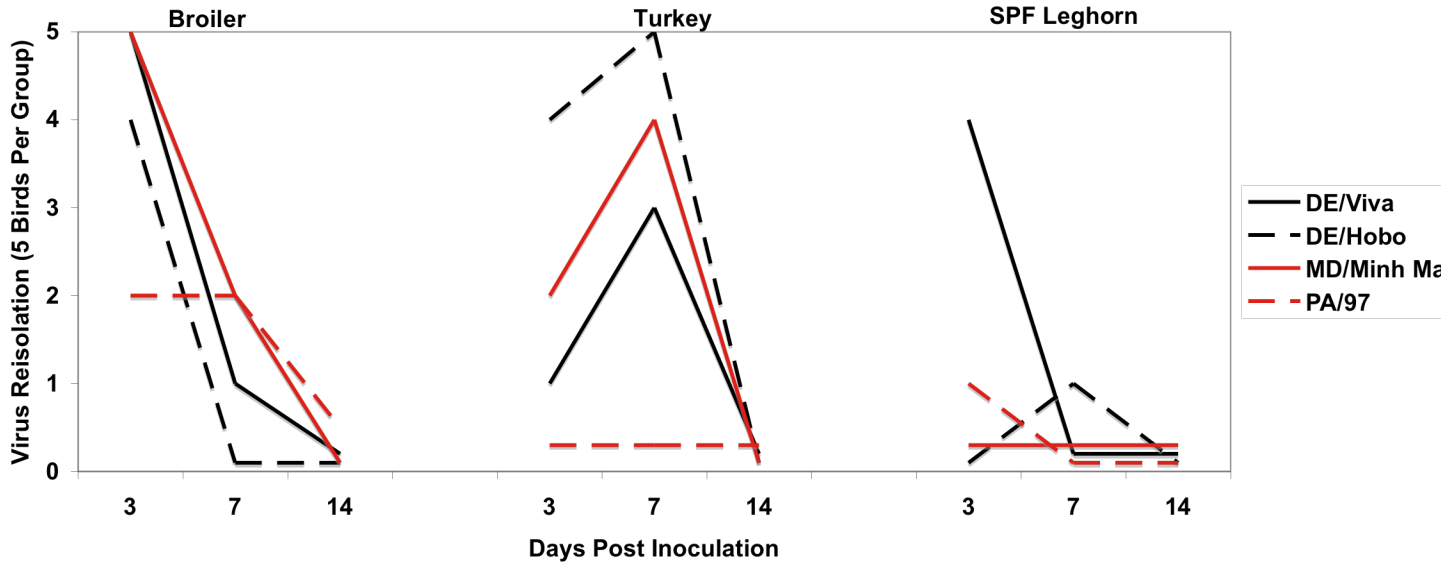
<sup>B</sup> Mean lesion score based on the following lesion score: 1= Rare lesion; 2=Minimal lesion; 3=Moderate lesion; 4=Severe lesion.

<sup>C</sup> Number of birds with lesions/total.

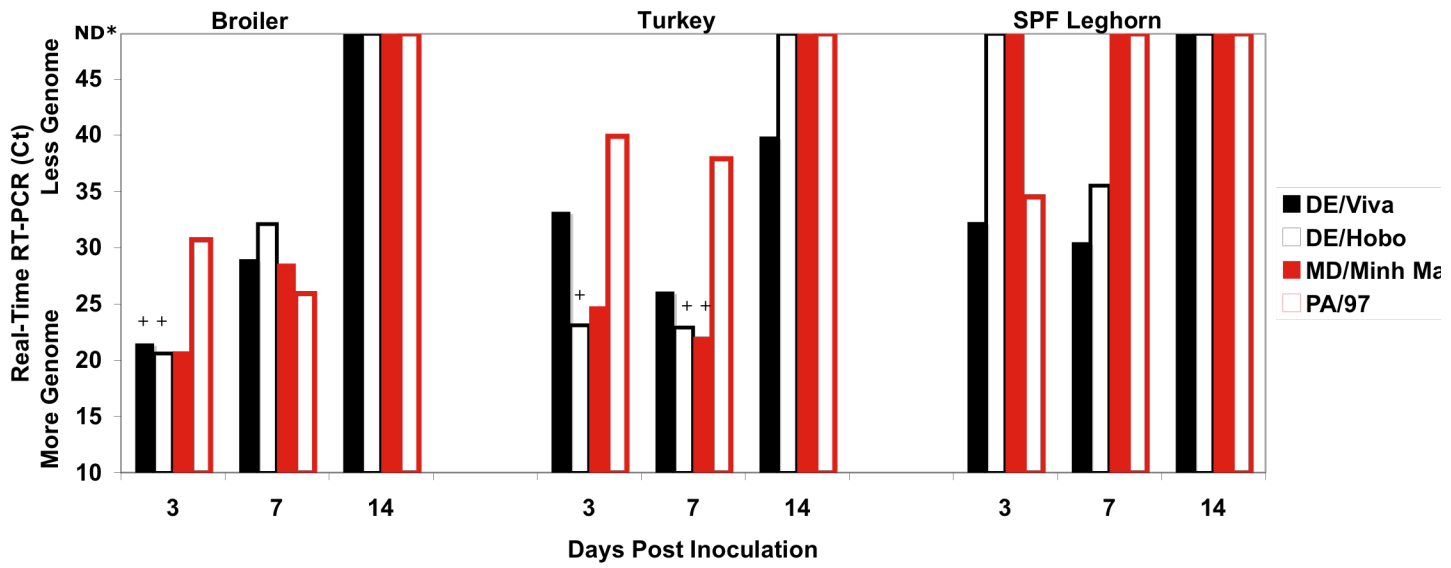
## Figure Legend

Figure 1. Trial 1. Evaluation of three-week-old broiler chickens, turkeys and SPF leghorns following inoculation with low path avian influenza virus H7N2 isolates DE/Viva, DE/Hobo, MD/Minh Ma, or PA/1997. (A) Virus reisolation from individual tracheal swabs. (B) Real-time RT-PCR and antigen capture tests performed on pooled tracheal swabs. [+] = Positive antigen capture tests. (C) Agar gel immunodiffusion (AGID) serum antibody responses. (D) Hemagglutination-inhibition (HI) serum antibody responses. Enzyme-linked immunosorbant assay (ELISA) serum antibody responses.

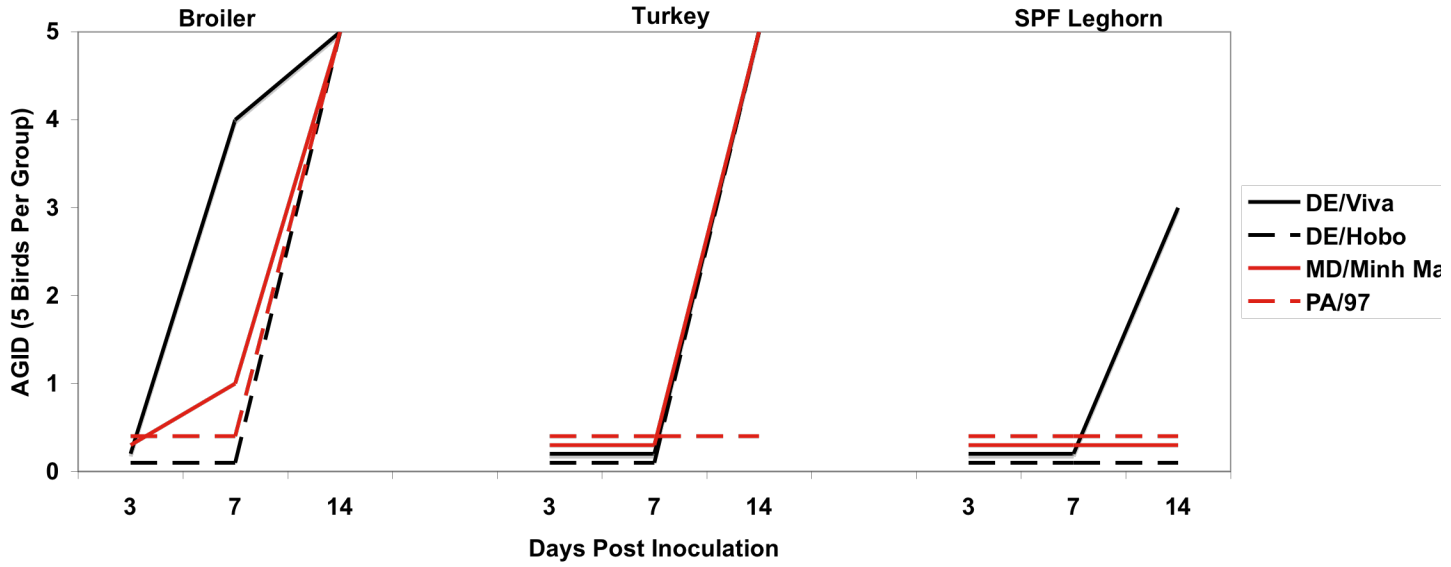
Figure 2. Trial 2. Evaluation of three-week-old SPF and commercial leghorns following inoculation with low path avian influenza virus H7N2 isolates DE/Viva, DE/Hobo, MD/Minh Ma, or PA/1997. (A) Virus reisolation from individual tracheal swabs. (B) Real-time RT-PCR and antigen capture tests performed on pooled tracheal swabs. [+] = Positive antigen capture tests. (C) Agar gel immunodiffusion (AGID) serum antibody responses. (D) Hemagglutination-inhibition (HI) serum antibody responses. Enzyme-linked immunosorbant assay (ELISA) serum antibody responses.



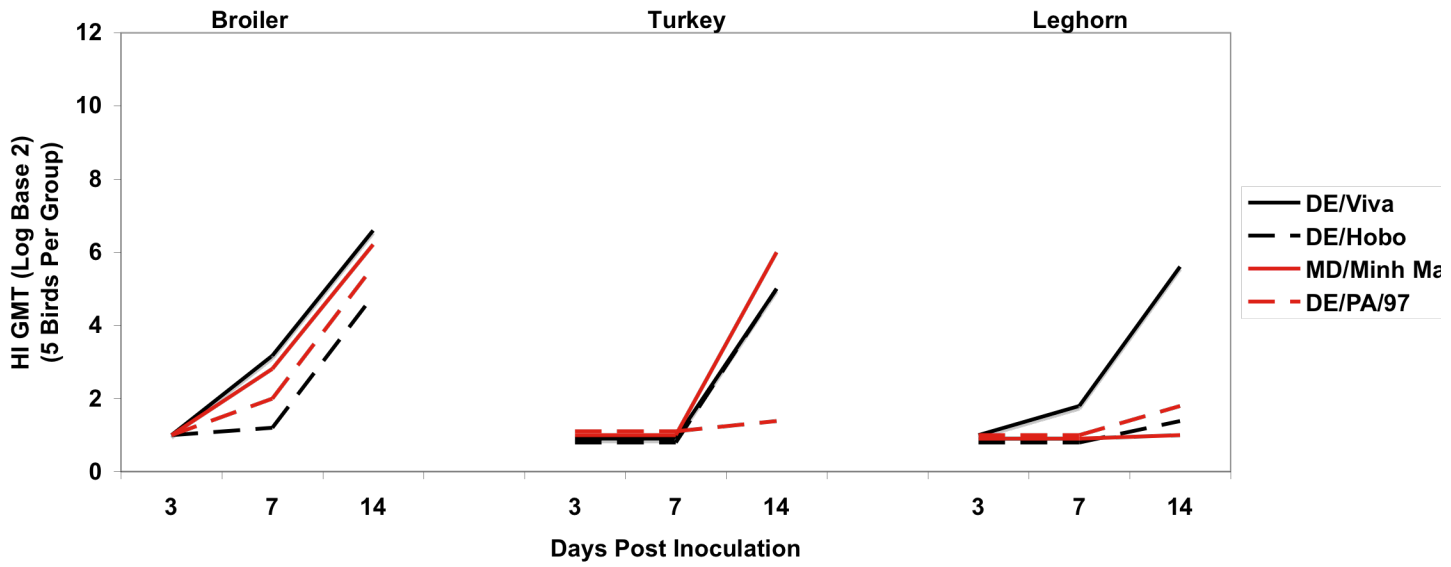
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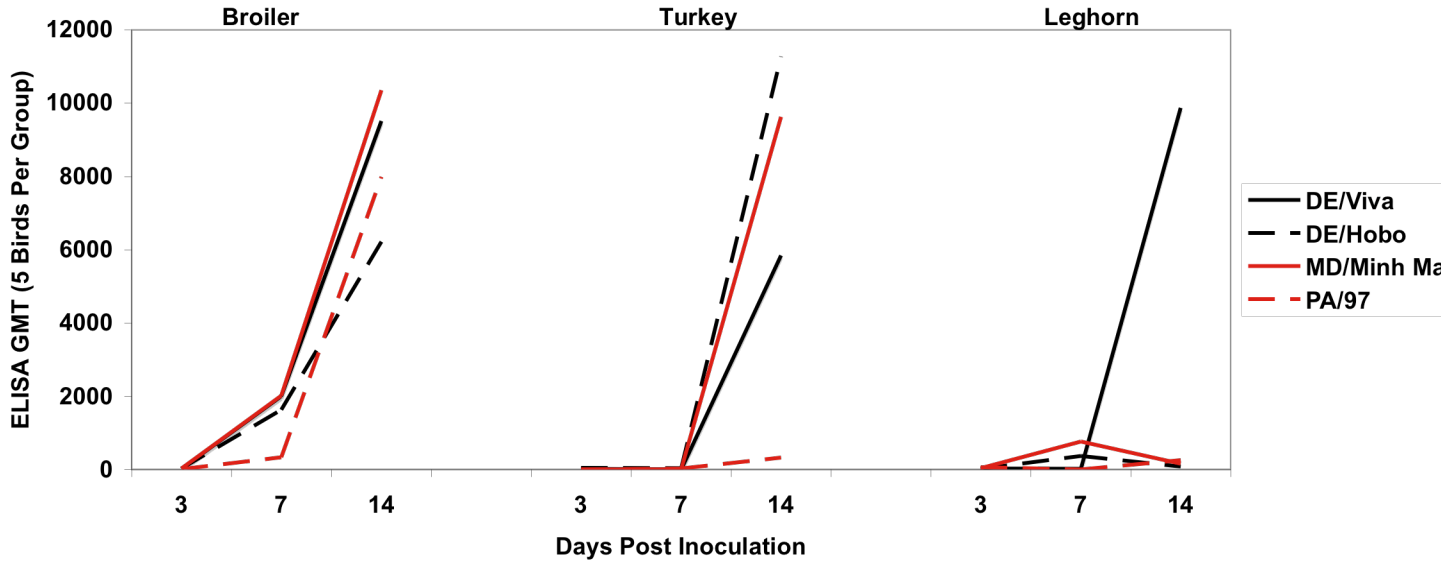
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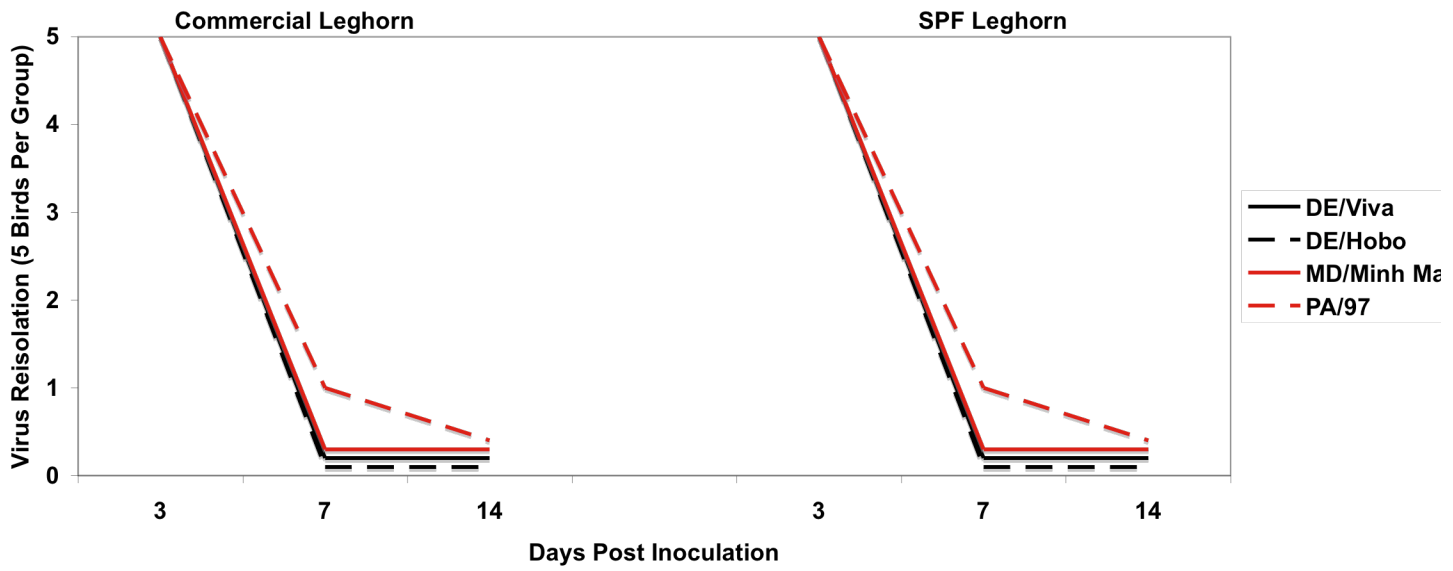
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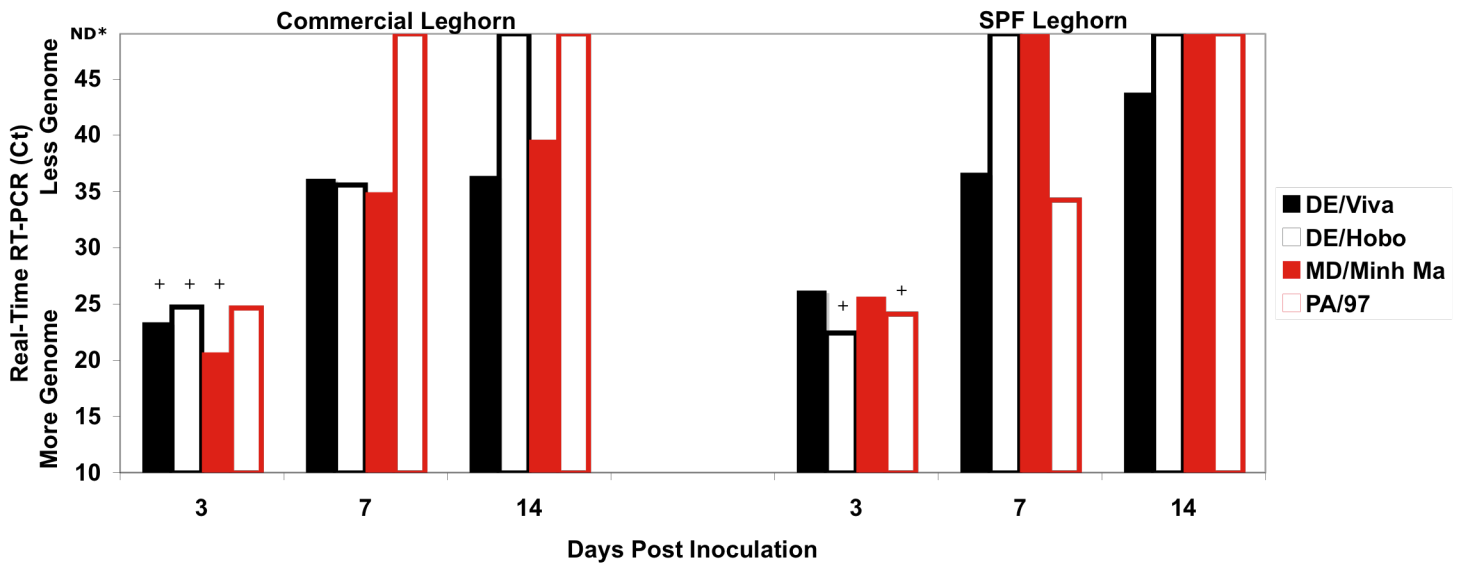
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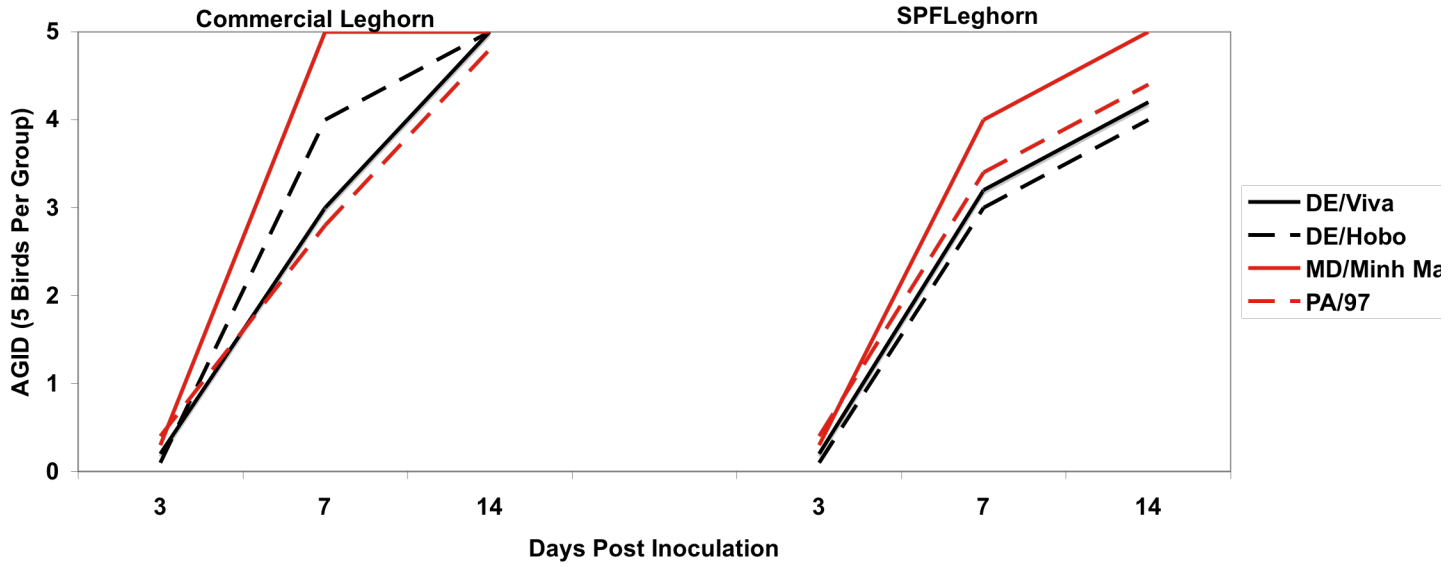
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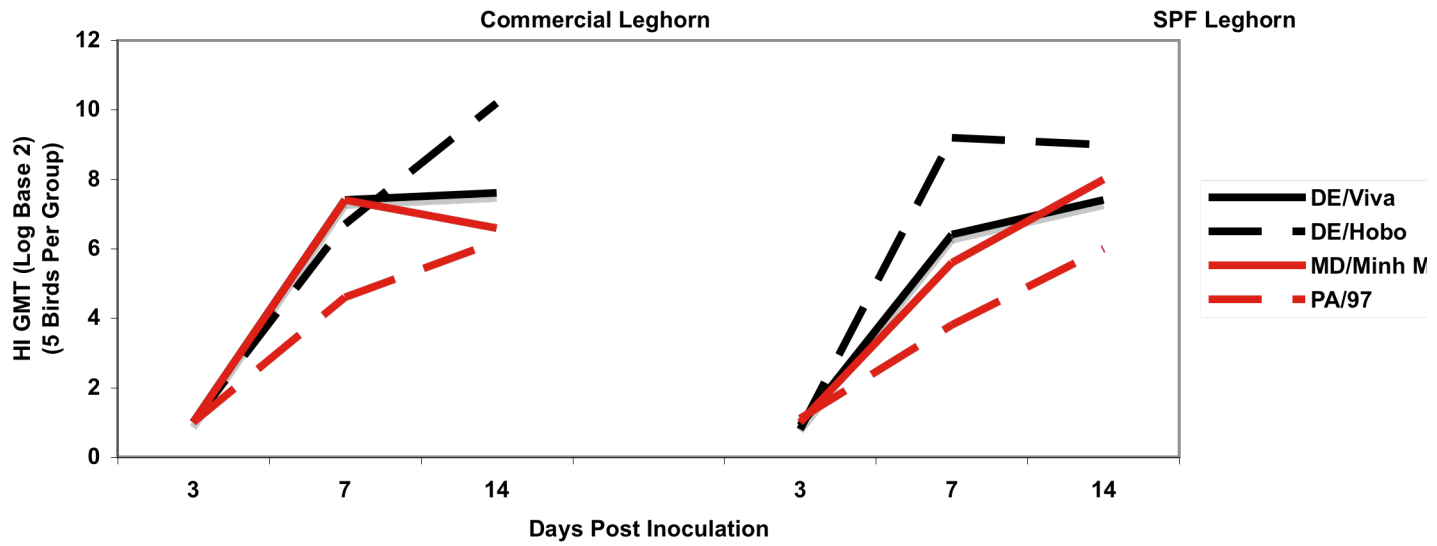
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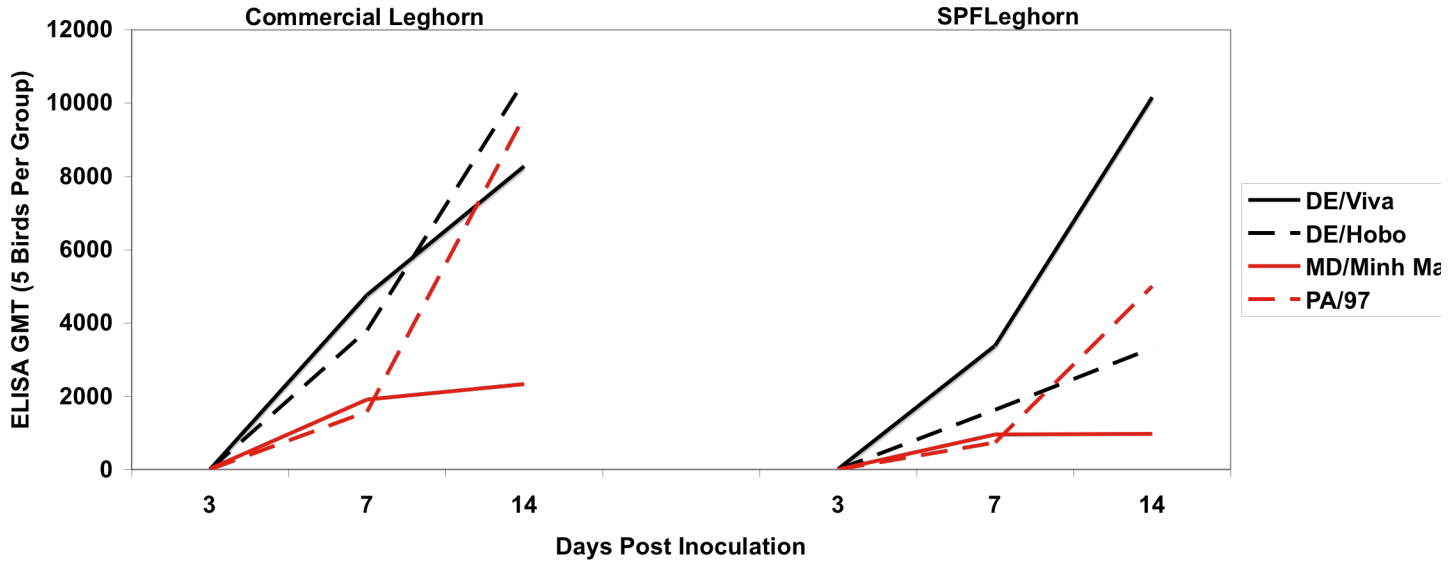
B.



C.



D.



E.