

Title	Is TB testing associated with increased blood interferon-gamma levels?
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Supplementary Material

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2	Is TB testing lowering the risk of clinical Johne's disease in the Republic of Ireland?
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Supplementary Table 1: Univariable analysis examining associations between variables. P-values in bold highlight variables subsequently included in logistic regression models (n=179).

	Breed	Parity			Pre-	Post-			Difference IFN
	breeu	ranty	Pre-SICCT IFN	Post-SICCT IFN	SICCT MAP	SICCT MAP	Avian response	Bovine response	Pre/Post SICCT
Parity	0.99								
Pre-SICCT IFN	0.75	0.74							
Post-SICCT IFN	0.07	0.62	0.56						
Pre-SICCT MAP	0.23	0.12	0.23	0.83					
Post-SICCT Map	0.25	0.92	0.20	0.63	<0.001				
Avian response (mm)	0.95	0.42	0.41	0.78	0.09	<0.001			
Bovine response (mm)	0.79	0.56	0.09	0.32	0.002	<0.001	<0.001		
Difference IFN Pre/Post	0.07	0.70	<0.001	<0.001	0.93	0.43	0.90	0.17	
Difference MAP Pre/Post	0.46	0.40	0.36	0.51	0.22	<0.001	<0.001	<0.001	0.39

24 (n=179)

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Dependent Variable Independent Variable	Coefficient	P Value	95% Conf. Interval	Model (Model P value)
IFN-γ Production				
Post-SICCT vs. Pre- SICCT	0.03	< 0.001	0.02, 0.04	Testing Time point, Breed,
Non- Friesian vs. Friesians	-0.01	0.088	-0.02, 0.001	(<i>P</i> : <0.001)

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Supplementary Table 3: Significant associations between MAP ELISA response and independent variables (n=179)

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Dependent Variable	Coefficient	P Value	95% Conf. Interval	Model (Model P value)
Independent				,
Variable				
MAP ELISA				
Response				
Post-SICCT vs. Pre- SICCT	33.0	<0.001	26.8, 39.3	Testing Time point, Avian PPD DTH response, Bovine PPD DTH response
Avian PPD DTH response (millimetres)	3.9	< 0.001	2.0, 5.8	(P value: <0.001)
Bovine PPD DTH response (millimetres)	10.0	0.001	4.3, 15.7	

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- **Supplementary Figure 1**: Column A shows individual IFN-γ and MAP value recorded for
- each cow both pre and post-SICCT. Column B shows box plots of IFN-γ and MAP ELISA
- response both pre- and post-SICCT (n=179)

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- 35 **Supplementary Figure 2**: Scatter plot showing the relationship between post SICCT IFN-γ
- and MAP ELISA antibody response (n=179). IFN- γ *1000 to aid visualization.