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<b>Title</b>	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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18 **Supplementary Table 1:** Univariable analysis examining associations between variables. P-values in bold highlight variables subsequently included in  
 19 logistic regression models (n=179).

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

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23 **Supplementary Table 2:** Associations between IFN- $\gamma$  production and independent variables  
 24 (n=179)

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

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

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

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31 **Supplementary Figure 1:** Column A shows individual IFN- $\gamma$  and MAP value recorded for  
 32 each cow both pre and post-SICCT. Column B shows box plots of IFN- $\gamma$  and MAP ELISA  
 33 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- $\gamma$   
 36 and MAP ELISA antibody response (n=179). IFN- $\gamma$  \*1000 to aid visualization.

