



Institute for Animal Health

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To:

Email:

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From:

Date: 27th April 2009

Subject: R1 Report

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Thank you.

Dear [REDACTED]

Please find below the final "r1" value report for A IRN/2/2009, A IRN/6/2009, A IRN/23/2009 and A IRN/25/2009. The results for O IRN/7/2009 and O IRN/14/2009 will follow.

Yours sincerely

[REDACTED]
Head: Epidemiology Division

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Report no: 10/09		VNT							ELISA			
Field Isolate:	SAU Isolate ref:	2dmVNT test ref:	A Tur06	A22 Irq	A22 Irq	A Irn99	A May97	A Irn87	ELISA test ref:	A May 97	A22 Irq 24/64	A Irn 87
A Irn 2/2009	B111/09	mn33/09	0.93	0.35	0.39	0.09			SD 35/09	1.00	0.50	0.25
		mn37/09			0.38				SD 38/09	1.00	0.33	0.25
		mn38/09		0.35		0.14	fail	0.12				
		mn40/09					0.09	0.13				
		mean	0.93	0.35	0.39	0.12	0.09	0.13	Mean	1.00	0.42	0.25
A Irn 6/2009	B112/09	mn33/09	0.38	0.07	0.15	0.16			SD 35/09	>1	0.17	0.25
		mn37/09			0.09				SD 38/09	1.00	0.06	0.33
		mn38/09		0.12		0.31	fail	0.21				
		mn40/09					0.29	0.40				
		mean	0.38	0.10	0.12	0.24	0.29	0.31	Mean	≥1	0.12	0.29
A Irn 23/2009	B113/09	mn33/09	0.35	0.07	0.13	0.11			SD 35/09	>1	0.13	0.38
		mn37/09			0.11				SD 38/09	>1	0.25	0.25
									SD 41/09		0.08	
		mean	0.35	0.07	0.12	0.11			Mean	≥1	0.15	0.32
A Irn 25/2009	B114/09	mn33/09	0.35	0.08	0.10	0.10			SD 35/09	0.75	Did not trap	0.13
		mn37/09			0.04				SD 38/09	>1		0.25
									SD 41/09			0.33
			0.35	0.08	0.07	0.10			Mean	≥0.88		0.24

Interpretation of r_1 values

In the case of ELISA:

$r_1 = 0.4-1.0$. Suggests that there is a close relationship between field isolate and vaccine strain. A potent vaccine containing the vaccine strain is likely to confer protection.

$r_1 = 0.2-0.39$, Suggests that the field isolate is antigenically related to the vaccine strain. The vaccine strain might be suitable for use if no closer match can be found provided that a potent vaccine is used and animals are preferably immunised more than once.

$r_1 = <0.2$. Suggests that the field isolate is so different from the vaccine strain that the vaccine is unlikely to protect.

In the case of neutralisation:

$r_1 = \geq 0.3$. Suggests that there is a close relationship between field isolate and vaccine strain. A potent vaccine containing the vaccine strain is likely to confer protection.

$r_1 = < 0.3$. Suggests that the field isolate is so different from the vaccine strain that the vaccine is unlikely to protect.

N.B.

All of our phylogenetic trees can be accessed via the internet at:

http://www.iah.bbsrc.ac.uk/primary_index/current_research/virus/Picornaviridae/Aphthovirus/index.htm
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