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To:

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Date: 27th April 2009

Subject: R1 Report

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Thank you.

Dear [REDACTED]

Please find below the final "r1" value report for O UAE 3/2008 and O UAE 4/2009.

Yours sincerely,

[REDACTED]
Head: Epidemiology Division

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Report no: 08/09		2dmVNT					LPBE			
Field Isolate:	SAU Isolate ref:	2dmVNT test ref:	O Manisa	O Bfs	O Ind R2/75	O Kaufbeuren	ELISA test ref:	O 4625 (Isr 2/85)	O Ind 53/79	O 3039
O UAE 3/2008	B87/09	mn28/09	>1.00	1.00			SD 30/09	0.50	Did not trap	0.38
		mn29/09	0.46	0.40	0.58	0.45	SD 39/09	0.50		0.25
		mn 31/09			1.00	0.31				
		mean	>0.73	0.70	0.79	0.38	mean	0.50		0.32
O UAE 4/2009	B88/09	mn28/09	no virus growth	no virus growth			SD 30/09	0.13	0.25	0.03
		mn29/09	no virus growth	no virus growth						
	B117/09	mn 31/09	0.20	0.11	0.83		SD 39/09	Did not trap	Did not trap	0.67
		mn 39/09	no virus growth	no virus growth	no virus growth		SD 42/09			0.75
		Mean	0.20	0.11	0.83		Mean			0.71

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/Picomaviridae/Aphthovirus/index.html