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### UK NEQAS for Paraneoplastic Antibodies

<b>Distribution : 185</b>	<b>October 2018</b>	<b>Participant : 94317</b>
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129 out of 151 participants returned data for this distribution. 85% response rate.




#### Nil Responses

14228C, 14398, 14513, 14513A, 14545, 14866, 14888, 93150, 93584, 94107, 94317, NOKLUS, YVSOLAB, ORG, BIOG, INFO, CODEX, TVN, SEQC, VAR, ORG\_G, ORG\_A

**Sample 185-1** was a sample from a patient with positive PCA- 1 (Yo) paraneoplastic antibodies.

**Sample 185-2** was a serum from a patient with negative paraneoplastic antibodies, but positive anti - smooth muscle antibodies by indirect immunofluorescence.

Sample	Analyte	Designated Response	Your Response	Score
185-1	Paraneoplastic Antibody	Positive	No Response	0
	Antibody Identification	PCA-1 (Yo)	No Response	0

Sample	Analyte	Designated Response	Your Response	Score	OMIS
185-2	Paraneoplastic Antibody	Negative	No Response	0	0 
	Antibody Identification	NEG	No Response	0	0 
				<b>Total MIS</b>	0 

The current window of analysis comprises the previous six distributions

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**Comments**

## Sample 185-1:

122/129 laboratories reported sample 185-1 as positive for paraneoplastic antibodies. Sample 185-1 should have produced a typical pattern comprising coarse speckled staining of the purkinje cells cytoplasm (associated with PCA-1 (Yo) antibody) and should have led to confirmation by a secondary testing method.

94 laboratories reported PCA-1 (Yo) antibody positive for sample 185-1 by primary screening testing. 110 participants correctly identified the PCA-1 (Yo) antibody by secondary testing methods.

## Sample 185-2:

119/129 laboratories reported sample 185-2 as negative for paraneoplastic antibodies. Sample 185-2 was from a patient with positive smooth muscle antibodies on indirect immunofluorescence. Some laboratories commented about the presence of anti-nuclear staining, and 22 participants noted the presence of anti-recoverin in this sample. 98/109 laboratories reported sample 185-2 as negative for paraneoplastic neurological antibodies by secondary testing methods.

The Total Misclassification scoring (**MIS**) system for the **qualitative** element of the scheme gives an indication of the number of instances where a laboratory's response is at variance with that defined for each specimen in a window of **six** distributions.

A panel of reference laboratories (10656, 10702, 11185, 14477, 14480) were in agreement in providing the target responses.

Laboratories have been given misclassification score (MIS) for each sample where they are at variance with the target response. The overall misclassification score (OMIS) now includes a running window of 12 samples over 12 months.

The categories of performance are:

	<b>Total MIS</b>
 <b>Good</b>	Zero
 <b>Adequate</b>	1-3
 <b>Poor</b>	> 3

For further performance criteria information please see our website at <http://www.immqas.org.uk>.

If laboratories require further assistance please contact the centre.

## Summary Page for Sample 185-1

Analyte	Positive	Negative	Referred
PARANEOPLASTIC ANTIBODIES	122	1	6
<b>Total Responses</b>			129
<b>Correct Response</b>			95 %

Antibody Identification	Returns	
NEG	1	
PCA-1 (Yo)	122	
<b>Total Responses</b>		123
<b>Correct Response</b>		99 %

Primary Testing		Returns
Analyte		
PCA-1 (Yo)		94
Other		1
Screen Only		2
<b>Total Responses</b>		97

Secondary Testing		Returns
Analyte		
PCA-1 (Yo)		110
Other		1
NEGATIVE		1
<b>Total Responses</b>		112

## Your Results for Sample 185-1

Analyte	Positive	Negative	Referred
PARANEOPLASTIC ANTIBODIES	False	False	False
ANTIBODY IDENTIFICATION	No Response		

## Your Primary Results for Sample 185-1

Analyte	Positive	Negative	Method	Substrate	Manufacturer	Dilution
Anna-1 (Hu)	False	False	Indirect Immunofluorescence	Monkey Cerebellum	A. Menarini - Zenit EIA	
Anna-2 (Ri)	False	False	Indirect Immunofluorescence	Monkey Cerebellum	A. Menarini - Zenit EIA	
PCA-1 (Yo)	False	False	Indirect Immunofluorescence	Monkey Cerebellum	A. Menarini - Zenit EIA	
CRMP5 (CV2)	False	False	Indirect Immunofluorescence	Monkey Cerebellum	A. Menarini - Zenit EIA	
AMPHIPHYSIN	False	False	Indirect Immunofluorescence	Monkey Cerebellum	A. Menarini - Zenit EIA	
Ma-2 (Ta)	False	False	Indirect Immunofluorescence	Monkey Cerebellum	A. Menarini - Zenit EIA	
GAD - Neurological	False	False	Indirect Immunofluorescence	Monkey Cerebellum	A. Menarini - Zenit EIA	
Other	False	False				
Screen Only	False	False				

## Summary of Results for Sample 185-1 - PRIMARY TESTING

## Indirect Immunofluorescence

SUBSTRATE	ANNA-1 (Hu)	ANNA-2 (Ri)	PCA-1 (Yo)	CRMP 5 (CV2)	Amphip hysin	Ma-2 (Ta)	GAD Abs	Other	Negative	Positive Screen Only	Negative Screen Only
<b>Monkey Cerebellum</b>	<b>0</b>	<b>0</b>	<b>80</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>
Euroimmun	0	0	33	0	0	0	0	0	0	0	0
Trinity Biotech (Immco)	0	0	7	0	0	0	0	0	0	0	0
Instrumentation Lab	0	0	1	0	0	0	0	0	0	0	0
Inova	0	0	39	0	0	0	0	1	0	2	0
<b>Rat Cerebellum</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
In House	0	0	2	0	0	0	0	0	0	0	0
Other ...	0	0	1	0	0	0	0	0	0	0	0

## Other ...

SUBSTRATE	ANNA-1 (Hu)	ANNA-2 (Ri)	PCA-1 (Yo)	CRMP 5 (CV2)	Amphip hysin	Ma-2 (Ta)	GAD Abs	Other	Negative	Positive Screen Only	Negative Screen Only
<b>Other ...</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Other ...	0	0	5	0	0	0	0	0	0	0	0

## Immunohistochemistry

SUBSTRATE	ANNA-1 (Hu)	ANNA-2 (Ri)	PCA-1 (Yo)	CRMP 5 (CV2)	Amphip hysin	Ma-2 (Ta)	GAD Abs	Other	Negative	Positive Screen Only	Negative Screen Only
<b>Rat Cerebellum</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Other ...	0	0	1	0	0	0	0	0	0	0	0
Vector Laboratories	0	0	1	0	0	0	0	0	0	0	0

## Your Secondary Results for Sample 185-1

Analyte	Positive	Negative	Method	Substrate	Manufacturer
Anna-1 (Hu)	False	False	Immunoblotting	N/A	RAVO Diagnostika
Anna-2 (Ri)	False	False	Immunoblotting	N/A	RAVO Diagnostika
PCA-1 (Yo)	False	False	Immunoblotting	N/A	RAVO Diagnostika
CRMP5 (CV2)	False	False	Immunoblotting	N/A	RAVO Diagnostika
AMPHIPHYSIN	False	False	Immunoblotting	N/A	RAVO Diagnostika
Ma-2 (Ta)	False	False	Immunoblotting	N/A	RAVO Diagnostika
GAD - Neurological	False	False	Immunoblotting	N/A	RAVO Diagnostika
Other	False	False			

## Summary of Results for Sample 185-1 - SECONDARY TESTING

	ANNA-1 (Hu)	ANNA-2 (Ri)	PCA-1 (Yo)	CRMP 5 (CV2)	Amphip hysin	Ma-2 (Ta)	GAD Abs	Other	Negative
<b>Immunoblotting</b>	0	0	110	0	0	0	0	1	1
<b>Manufacturer</b>									
Euroimmun	0	0	70	0	0	0	0	1	1
In House	0	0	1	0	0	0	0	0	0
RAVO Diagnostika	0	0	25	0	0	0	0	0	0
RAVO Diagnostika PNS Blot	0	0	2	0	0	0	0	0	0
RAVO Diagnostika PNS 11 Blot	0	0	3	0	0	0	0	0	0
Euroimmun Euroline 12 Ag	0	0	9	0	0	0	0	0	0

## Summary Page for Sample 185-2

Analyte	Positive	Negative	Referred
PARANEOPLASTIC ANTIBODIES	6	117	6
<b>Total Responses</b>			129
<b>Correct Response</b>			91 %

Antibody Identification	Returns	
NEG	119	
ANNA-1 (HU)	1	
PCA-1 (Yo)	1	
CRMP5 (CV2)	1	
AMPHIPHYSIN	1	
<b>Total Responses</b>		123
<b>Correct Response</b>		97 %

Primary Testing	Returns	
Analyte	Returns	
Anna-1 (Hu)	4	
Other	6	
Screen Only	2	
NEGATIVE	82	
<b>Total Responses</b>		94

Secondary Testing	Returns	
Analyte	Returns	
PCA-1 (Yo)	1	
Other	10	
NEGATIVE	98	
<b>Total Responses</b>		109

## Your Results for Sample 185-2

Analyte	Positive	Negative	Referred
PARANEOPLASTIC ANTIBODIES	False	False	False
ANTIBODY IDENTIFICATION	No Response		

## Your Primary Results for Sample 185-2

Analyte	Positive	Negative	Method	Substrate	Manufacturer	Dilution
Anna-1 (Hu)	False	False	Indirect Immunofluorescence	Monkey Cerebellum	A. Menarini - Zenit EIA	
Anna-2 (Ri)	False	False	Indirect Immunofluorescence	Monkey Cerebellum	A. Menarini - Zenit EIA	
PCA-1 (Yo)	False	False	Indirect Immunofluorescence	Monkey Cerebellum	A. Menarini - Zenit EIA	
CRMP5 (CV2)	False	False	Indirect Immunofluorescence	Monkey Cerebellum	A. Menarini - Zenit EIA	
AMPHIPHYSIN	False	False	Indirect Immunofluorescence	Monkey Cerebellum	A. Menarini - Zenit EIA	
Ma-2 (Ta)	False	False	Indirect Immunofluorescence	Monkey Cerebellum	A. Menarini - Zenit EIA	
GAD - Neurological	False	False	Indirect Immunofluorescence	Monkey Cerebellum	A. Menarini - Zenit EIA	
Other	False	False				
Screen Only	False	False				

## Summary of Results for Sample 185-2 - PRIMARY TESTING

## Indirect Immunofluorescence

	ANNA-1 (Hu)	ANNA-2 (Ri)	PCA-1 (Yo)	CRMP 5 (CV2)	Amphip hysin	Ma-2 (Ta)	GAD Abs	Other	Negative	Positive Screen Only	Negative Screen Only
<b>Monkey Cerebellum</b>	3	0	0	0	0	0	0	6	70	2	1
Euroimmun	0	0	0	0	0	0	0	2	31	0	0
Trinity Biotech (Immco)	0	0	0	0	0	0	0	0	7	0	0
Instrumentation Lab	0	0	0	0	0	0	0	0	1	0	0
Inova	3	0	0	0	0	0	0	4	31	2	1
<b>Rat Cerebellum</b>	0	0	0	0	0	0	0	0	3	0	0
In House	0	0	0	0	0	0	0	0	2	0	0
Other ...	0	0	0	0	0	0	0	0	1	0	0

## Other ...

	ANNA-1 (Hu)	ANNA-2 (Ri)	PCA-1 (Yo)	CRMP 5 (CV2)	Amphip hysin	Ma-2 (Ta)	GAD Abs	Other	Negative	Positive Screen Only	Negative Screen Only
<b>Other ...</b>	0	0	0	0	0	0	0	0	5	0	0
Other ...	0	0	0	0	0	0	0	0	5	0	0

## Immunohistochemistry

	ANNA-1 (Hu)	ANNA-2 (Ri)	PCA-1 (Yo)	CRMP 5 (CV2)	Amphip hysin	Ma-2 (Ta)	GAD Abs	Other	Negative	Positive Screen Only	Negative Screen Only
<b>Rat Cerebellum</b>	0	0	0	0	0	0	0	0	2	0	0
Other ...	0	0	0	0	0	0	0	0	1	0	0
Vector Laboratories	0	0	0	0	0	0	0	0	1	0	0



## Your Secondary Results for Sample 185-2

Analyte	Positive	Negative	Method	Substrate	Manufacturer
Anna-1 (Hu)	False	False	Immunoblotting	N/A	RAVO Diagnostika
Anna-2 (Ri)	False	False	Immunoblotting	N/A	RAVO Diagnostika
PCA-1 (Yo)	False	False	Immunoblotting	N/A	RAVO Diagnostika
CRMP5 (CV2)	False	False	Immunoblotting	N/A	RAVO Diagnostika
AMPHIPHYSIN	False	False	Immunoblotting	N/A	RAVO Diagnostika
Ma-2 (Ta)	False	False	Immunoblotting	N/A	RAVO Diagnostika
GAD - Neurological	False	False	Immunoblotting	N/A	RAVO Diagnostika
Other	False	False			

## Summary of Results for Sample 185-2 - SECONDARY TESTING

	ANNA-1 (Hu)	ANNA-2 (Ri)	PCA-1 (Yo)	CRMP 5 (CV2)	Amphip hysin	Ma-2 (Ta)	GAD Abs	Other	Negative
<b>Immunoblotting</b>	0	0	1	0	0	0	0	9	99
<b>Manufacturer</b>									
Euroimmun	0	0	1	0	0	0	0	6	62
In House	0	0	0	0	0	0	0	0	1
RAVO Diagnostika	0	0	0	0	0	0	0	0	25
RAVO Diagnostika PNS Blot	0	0	0	0	0	0	0	0	2
RAVO Diagnostika PNS 11 Blot	0	0	0	0	0	0	0	0	2
Euroimmun Euroline 12 Ag	0	0	0	0	0	0	0	3	7
	ANNA-1 (Hu)	ANNA-2 (Ri)	PCA-1 (Yo)	CRMP 5 (CV2)	Amphip hysin	Ma-2 (Ta)	GAD Abs	Other	Negative
<b>Other ...</b>	0	0	0	0	0	0	0	0	3
<b>Manufacturer</b>									
Other ...	0	0	0	0	0	0	0	0	3