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UK NEQAS for Paraneoplastic Antibodies

Distribution : 224	August 2022	Participant : 14489
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148 out of 171 participants returned data for this distribution. 87% response rate.




Nil Responses

12197A, 12221, 14179, 91754, 93549, 95616B, PMS_NZ, PMS_AU, SEROBAC, ANAND, NOKLUS, YVSOLAB, INFO2, SC_GP, QUAL, ORG, BIOG, INFO, CODEX, TVN, SEQC, TVNR, VAR

Sample 224-1 was a sample from a patient with positive PCA- 1 (Yo) paraneoplastic antibodies.

Sample 224-2 was a serum from a patient with negative paraneoplastic antibodies but positive homogeneous staining of anti - nuclear antibodies on immunofluorescence.

Sample	Analyte	Designated Response	Your Response	Score
224-1	Paraneoplastic Antibody	Positive	Positive	0
	Antibody Identification	PCA-1 (Yo)	PCA-1 (Yo)	0

Sample	Analyte	Designated Response	Your Response	Score	OMIS
224-2	Paraneoplastic Antibody	Negative	Negative	0	0 
	Antibody Identification	NEG	NEG	0	0 
Total MIS				0	0 

The current window of analysis comprises the previous six distributions

Comments

Sample 224-1:

137/148 laboratories reported sample 224-1 as positive for paraneoplastic antibodies. Sample 224-1 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 224-1 by primary screening testing.

127 participants correctly identified the PCA-1 (Yo) antibody by secondary testing methods.

Sample 224-1 was an identical sample to 213-2.

Sample 224-2:

141/148 laboratories reported sample 224-2 as negative for paraneoplastic antibodies. Sample 224-2 contained homogenous anti-nuclear antibodies and stained neuronal nuclei with a lack of cytoplasmic staining in the Purkinje cells together with all the non-neuronal cerebellar nuclei being positive. This would have provided a clue into which direction any further investigation should take.

89 laboratories reported sample 224-2 as negative by primary screening.


136 participants correctly reported the sample as negative 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:

	Total MIS
 Good	Zero
 Adequate	1
 Poor	> 1

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 224-1

Analyte	Positive	Negative	Referred
PARANEOPLASTIC ANTIBODIES	137	8	3
Total Responses			148
Correct Response			93 %

Antibody Identification	Returns	
NEG	8	
PCA-1 (Yo)	137	
Total Responses		145
Correct Response		94 %

Primary Testing		Returns
Analyte		
PCA-1 (Yo)		94
Screen Only		2
NEGATIVE		2
Total Responses		98

Secondary Testing		Returns
Analyte		
Anna-1 (Hu)		1
Anna-2 (Ri)		1
PCA-1 (Yo)		127
NEGATIVE		8
Total Responses		137

Your Results for Sample 224-1

Analyte	Positive	Negative	Referred
PARANEOPLASTIC ANTIBODIES	True	False	False
ANTIBODY IDENTIFICATION	PCA-1 (Yo)		

Your Primary Results for Sample 224-1

Analyte	Positive	Negative	Method	Substrate	Manufacturer	Dilution
Anna-1 (Hu)	False	False				
Anna-2 (Ri)	False	False				
PCA-1 (Yo)	False	False				
CRMP5 (CV2)	False	False				
AMPHIPHYSIN	False	False				
Ma-2 (Ta)	False	False				
GAD - Neurological	False	False				
Other	False	False				
Screen Only	False	False				

Summary of Results for Sample 224-1 - 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
Monkey Cerebellum	0	0	88	0	0	0	0	0	0	2	0
A. Menarini - Zenit EIA	0	0	1	0	0	0	0	0	0	0	0
Euroimmun (Basic Substrate)	0	0	3	0	0	0	0	0	0	0	0
Euroimmun (Combi Substrate)	0	0	2	0	0	0	0	0	0	0	0
Euroimmun (Mosaic Substrate)	0	0	33	0	0	0	0	0	0	0	0
Inova	0	0	44	0	0	0	0	0	0	2	0
Trinity Biotech (Immco)	0	0	5	0	0	0	0	0	0	0	0
Rat Cerebellum	0	0	1	0	0	0	0	0	0	0	0
In House	0	0	1	0	0	0	0	0	0	0	0
Other ...	0	0	1	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
Other ...	0	0	2	0	0	0	0	0	1	0	0
Other ...	0	0	2	0	0	0	0	0	1	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
Rat Cerebellum	0	0	0	0	0	0	0	0	1	0	0
Vector Laboratories	0	0	0	0	0	0	0	0	1	0	0
Mouse Cerebellum	0	0	1	0	0	0	0	0	0	0	0
In House	0	0	1	0	0	0	0	0	0	0	0

Your Secondary Results for Sample 224-1

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

Summary of Results for Sample 224-1 - SECONDARY TESTING

	ANNA-1 (Hu)	ANNA-2 (Ri)	PCA-1 (Yo)	CRMP 5 (CV2)	Amphip hysin	Ma-2 (Ta)	GAD Abs	Other	Negative
Immunoblotting	1	1	127	0	0	0	0	0	8
Manufacturer									
Euroimmun Euroline 12 Ag	1	1	68	0	0	0	0	0	2
Euroimmun Euroline Profile 2	0	0	23	0	0	0	0	0	0
Euroimmun Euroline Profile Plus RST	0	0	3	0	0	0	0	0	0
In House	0	0	1	0	0	0	0	0	0
RAVO Diagnostika PNS 11 Blot	0	0	6	0	0	0	0	0	0
RAVO Diagnostika PNS 11 Diver	0	0	7	0	0	0	0	0	1
RAVO Diagnostika PNS 14 Blot	0	0	8	0	0	0	0	0	1
RAVO Diagnostika PNS 9 Diver	0	0	7	0	0	0	0	0	3
RAVO Diagnostika PNS Blot	0	0	3	0	0	0	0	0	1
RAVO Diagnostika PNS+2 Blot	0	0	1	0	0	0	0	0	0

Summary Page for Sample 224-2

Analyte	Positive	Negative	Referred
PARANEOPLASTIC ANTIBODIES	2	141	5
Total Responses			148
Correct Response			95 %

Antibody Identification	Returns	
NEG	141	
ANNA-1 (HU)	1	
CRMP5 (CV2)	1	
Total Responses		143
Correct Response		99 %

Primary Testing	Returns	
Analyte	Returns	
Anna-1 (Hu)	4	
Anna-2 (Ri)	1	
Other	1	
Screen Only	1	
NEGATIVE	89	
Total Responses		96

Secondary Testing	Returns	
Analyte	Returns	
CRMP5 (CV2)	1	
NEGATIVE	136	
Total Responses		137

Your Results for Sample 224-2

Analyte	Positive	Negative	Referred
PARANEOPLASTIC ANTIBODIES	False	True	False
ANTIBODY IDENTIFICATION	NEG		

Your Primary Results for Sample 224-2

Analyte	Positive	Negative	Method	Substrate	Manufacturer	Dilution
Anna-1 (Hu)	False	False				
Anna-2 (Ri)	False	False				
PCA-1 (Yo)	False	False				
CRMP5 (CV2)	False	False				
AMPHIPHYSIN	False	False				
Ma-2 (Ta)	False	False				
GAD - Neurological	False	False				
Other	False	False				
Screen Only	False	False				

Summary of Results for Sample 224-2 - 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
Monkey Cerebellum	4	1	0	0	0	0	0	1	83	1	1
A. Menarini - Zenit EIA	0	0	0	0	0	0	0	0	1	0	0
Euroimmun (Basic Substrate)	0	0	0	0	0	0	0	0	4	0	0
Euroimmun (Combi Substrate)	0	0	0	0	0	0	0	0	3	0	0
Euroimmun (Mosaic Substrate)	0	0	0	0	0	0	0	0	33	0	0
Inova	4	1	0	0	0	0	0	1	37	1	1
Trinity Biotech (Immco)	0	0	0	0	0	0	0	0	5	0	0
Rat Cerebellum	0	0	0	0	0	0	0	0	1	0	0
In House	0	0	0	0	0	0	0	0	1	0	0
Other ...	0	0	0	0	0	0	0	0	1	0	0
Other ...	0	0	0	0	0	0	0	0	1	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
Other ...	0	0	0	0	0	0	0	0	3	0	0
Other ...	0	0	0	0	0	0	0	0	3	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
Rat Cerebellum	0	0	0	0	0	0	0	0	1	0	0
Vector Laboratories	0	0	0	0	0	0	0	0	1	0	0
Mouse Cerebellum	0	0	0	0	0	0	0	0	1	0	0
In House	0	0	0	0	0	0	0	0	1	0	0

Your Secondary Results for Sample 224-2

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

Summary of Results for Sample 224-2 - SECONDARY TESTING

	ANNA-1 (Hu)	ANNA-2 (Ri)	PCA-1 (Yo)	CRMP 5 (CV2)	Amphip hysin	Ma-2 (Ta)	GAD Abs	Other	Negative
Immunoblotting	0	0	0	1	0	0	0	0	140
Manufacturer									
Euroimmun Euroline 12 Ag	0	0	0	0	0	0	0	0	72
Euroimmun Euroline Profile 2	0	0	0	0	0	0	0	0	25
Euroimmun Euroline Profile Plus RST	0	0	0	0	0	0	0	0	3
In House	0	0	0	0	0	0	0	0	1
RAVO Diagnostika PNS 11 Blot	0	0	0	0	0	0	0	0	7
RAVO Diagnostika PNS 11 Diver	0	0	0	1	0	0	0	0	8
RAVO Diagnostika PNS 14 Blot	0	0	0	0	0	0	0	0	9
RAVO Diagnostika PNS 9 Diver	0	0	0	0	0	0	0	0	10
RAVO Diagnostika PNS Blot	0	0	0	0	0	0	0	0	4
RAVO Diagnostika PNS+2 Blot	0	0	0	0	0	0	0	0	1
	ANNA-1 (Hu)	ANNA-2 (Ri)	PCA-1 (Yo)	CRMP 5 (CV2)	Amphip hysin	Ma-2 (Ta)	GAD Abs	Other	Negative
Other ...	0	0	0	0	0	0	0	0	1
Manufacturer									
Other ...	0	0	0	0	0	0	0	0	1