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Your Results On Survey 1196: September 2012

Sample 12/34, was from a donor with borderline protein S levels.

This sample was provided together with clinical details for investigation of possible heritable thrombophilia. Analysis of your results, and those of other UK NEQAS participants, are given on the following pages.

Performance analysis of Protein C, Protein S, Antithrombin, APC resistance and Plasminogen assays is based on the quantile grading (A to E) system. Grades are recorded in upper and lower case, indicating whether the results were above (upper case) or below (lower case) the median. For cumulative grades, this will aid in assessment of bias. Sub-groups used for analysis include Antithrombin antigen (u/dl or mg/dl), Antithrombin activity (enzyme substrate), Protein C activity (chromogenic and clotting based assay), free Protein S (expressed as a % of total or free S in the standard) and APC resistance (by kit source). Protein S activity kit-specific medians are calculated but grades are not currently assigned. Method abbreviations used include 'IEA' (immunoelectrophoresis), 'chrom' (chromogenic) and 'EID' (electroimmunodiffusion). Grading assessment is not currently applied to subgroups of less than 20 users.

The following patient history was provided to accompany the sample:

The patient is a 22 year old man who suffered a broken leg and subsequently developed a DVT. This sample was taken 3 months after cessation of anticoagulant therapy. There is no family history.

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Survey : 1196

Assay	Protein C Antigen	Protein C Activity	Protein S Total Ag	Protein S Free Ag	Protein S Activity	Antithrombin Antigen	Antithrombin Activity	APC Resistance	Plasminogen
Sample No:	12/34	12/34	12/34	12/34	12/34	12/34	12/34	12/34	12/34
Your method	-	Chrom: IL HemosIL	-	HemosIL Protein S (latex)	-	-	Chrom: HemosIL (Xa) (liquid)	IL HemosIL	-
Your result	-	83	-	63	-	-	87	2.5	-
Units	-	u/dl	-	u/dl	-	-	u/dl	Ratio	-
Your normal range	-	70 - 140	-	60 - 140	-	-	70 - 120	2 - 3.6	-
Subgroup for analysis	-	Chrom.	-	% Free PS	-	-	Factor Xa	IL HemosIL	-
Participants in group	-	312	-	272	-	-	176	97	-
Total participants	34	324	23	272	69	29	324	252	58
Median result	-	88	-	65	-	-	89	2.81	-
% deviation	-	-5.7	-	-3.1	-	-	-2.2	-11	-
Your performance grade	-	c	-	a	-	-	a	d	-
Interquartile Range " A "- grade	-	85 - 92.7	-	63 - 68	-	-	86 - 93	2.73 - 2.9	-
Your cumulative grades	-	A / a / c	-	B / E / a	-	-	A / a / a	- / B / d	-
Cumulative performance	-	Within Consensus	-	Within Consensus	-	-	Within Consensus	Within Consensus	-
Your interpretation	-	Normal	-	Normal	-	-	Normal	Normal	-
Overall Interpretations (%)									
Normal	96.8	98.4	57.1	41.9	42.2	86.2	93.5	95.8	98.2
Borderline	3.2	0.3	28.6	19.6	18.8	13.8	4.6	1.7	0
Abnormal	0	1.3	14.3	38.5	39.1	0	2	2.5	1.8
Notes	-	-	-	-	-	-	-	-	-

Your Diagnosis:

* - Where there are less than 20 users in a particular subgroup, performance grades have not been assigned.

** - Performance is only assigned when based on 2 or more results.

Overall diagnosis:

Of 104 centres providing an overall diagnosis, 50 (48%) reported low PS or PS deficiency, of which 2 also reported borderline AT levels, 1 of these also reported borderline PC. 19 (18%) reported borderline PS levels, 1 reported AT deficiency and 1 reported borderline AT. 32 centres (30%) reported normal results, of which 28 performed a full thrombophilia screen.

