

EQA round: DIF1/25 - Peripheral Blood Morphology Evaluation

Deadline: 14.3.2025

Setup: Slovakia

AV = assigned value	N _{tot} = total number of the results	N _{eva} = number of the results assessed
CVE = consensus of the experts	N _{rel} = relative number of the results	N _{suc} = number of successful results
>>> ... expected result		S _{rel} = relative success
> ... acceptable result		
± ... result not assessed		

Sample Test Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]

Sample A**(921) WBC - morphology**

All results	>	4	25	No changes			
		2	13	Agranulation			
		4	25	Neutrophil hypersegmentation			
		1	6,3	Hyposegmentation / asegmentation / pelgeroid			
		1	6,3	Döhle bodies			
	>	7	44	Denuded nuclei/cells, nuclear shadows / smudge cells			
	>	6	38	Vacuolisation			
		4	25	LGL/big lymphocytes			
	>	3	19	Lymphocytes - reactive forms			
		2	13	Lymphocytes - atypical forms (except "hairy")			

(922) WBC - count changes (relative)

All results	CVE >>>	13	81	Normal count			
		1	6,3	Basophilia			
		1	6,3	Monocytosis			
	>	1	6,3	Left shift			

(923) RBC - morphology

All results	CVE >>>	15	94	Anisocytosis			
	>	8	50	Poikilocytosis			
	>	8	50	Spherocytes			
		4	25	Stomatocytes			
		3	19	Dacryocytes			
	CVE >>>	11	69	Acanthocytes			
	CVE >>>	7	44	Echinocytes			
	CVE >>>	15	94	Target cells			
	CVE >>>	12	75	Schistocytes (and other fragmentocytes)			
	CVE >>>	3	19	Polychromasia			
	CVE >>>	4	25	Hypochromia			
	CVE >>>	10	63	Basophilic stippling			
	CVE >>>	11	69	Howell-Jolly bodies			
	CVE >>>	6	38	Pappenheimer bodies			

(924) Platelets - morphology

All results		3	19	No changes			
	CVE >>>	13	81	Large platelets			
		1	6,3	Small platelets			
	>	2	13	Platelets hypogranulation			

(925) Clinical recommendation - smear assessment

All results	CVE >>>	16	100	Blood smear is pathological			
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(926) Clinical recommendation - examination

All results	CVE >>>	16	100	An examination by the specialist/haematologist is recommended			
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(927) Estimation of diagnosis

All results		1	6,3	Anemia: Without closer determination			
	CVE >>>	12	75	Anemia: Haemolytic			
	>	4	25	Anaemia: Thalassemia and other congenital anaemias			
		1	6,3	Chronic myeloproliferative disease: Exact determination impossible			
		3	19	Platelets disorders: Thrombocytosis			
		2	13	Other: Other disease			

(928) How do you rate the technical quality of the smear?

All results	±	16	100	Acceptable			0
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(929) How do you rate the staining of the smear?

All results	±	15	100	Acceptable			0
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(939) Overall assessment (score)

		16			16	15	94
Maximum score achievable:	123 points	Criterion (60 % out of the maximum):	74 points				
Minimum score achieved:	67 points (54,5 %)						
Maximum score achieved:	109 points (88,6 %)						

All results		1	6,3	Unacceptable result			
	>>>	15	94	Satisfactory result			

Sample Test Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
Sample B							
(921) WBC - morphology							
All results		3	19	Not specified			
		1	6,3	No changes			
		1	6,3	Hypergranulation/toxic granulation			
	>	3	19	Giant bands and metamyelocytes			
	>	5	31	Agranulation			
		3	19	Neutrophil hypersegmentation			
		1	6,3	Hyposegmentation / asegmentation / pelgeroid			
	>	6	38	Denuded nuclei/cells, nuclear shadows / smudge cells			
		1	6,3	Cytoplasmatic fragments			
	>	4	25	Vacuolisation			
(922) WBC - count changes (relative)							
All results		1	6,3	Neutropenia			
	>	6	38	Neutrophilia			
	CVE >>>	16	100	Lymphocytopenia			
	CVE >>>	13	81	Basophilia			
	>	6	38	Monocytopenia			
	CVE >>>	16	100	Left shift			
(923) RBC - morphology							
All results		2	13	Normocytosis			
		1	6,3	Macrocytosis			
	CVE >>>	15	94	Anisocytosis			
	>	1	6,3	Eliptocytes, ovalocytes			
		4	25	Spherocytes			
		1	6,3	Stomatocytes			
	>	5	31	Dacryocytes			
	>	4	25	Polychromasia			
		1	6,3	Hypochromia			
(924) Platelets - morphology							
All results	>	13	81	No changes			
	>	2	13	Large platelets			
		1	6,3	Small platelets			
	>	1	6,3	Platelets hypogranulation			
(925) Clinical recommendation - smear assessment							
All results	CVE >>>	16	100	Blood smear is pathological			
(926) Clinical recommendation - examination							
All results	CVE >>>	16	100	An examination by the specialist/haematologist is recommended			
(927) Estimation of diagnosis							
All results		1	6,3	Anemia: Normocytosis			
		2	13	Acute leukemia: Without closer determination			
		2	13	Acute leukemia: AML (acute myeloid leukemia)			
		1	6,3	Myelodysplastic syndrome: Myelodysplastic syndrome			
	>	2	13	Chronic myeloproliferative disease: Exact determination impossible			
	CVE >>>	13	81	Chronic myeloproliferative disease: CML (chronic myelogenous leukaemia)			
		1	6,3	Chronic myeloproliferative disease: Myelofibrosis			
(928) How do you rate the technical quality of the smear?							
All results		16				0	
	±	16	100	Acceptable			
(929) How do you rate the staining of the smear?							
All results		15				0	
	±	15	100	Acceptable			
(939) Overall assessment (score)							
		16			16	15	94
Maximum score achievable: 75 points Criterion (60 % out of the maximum): 45 points							
Minimum score achieved: 43 points (57,3 %)							
Maximum score achieved: 75 points (100 %)							
All results		1	6,3	Unacceptable result			
	>>>	15	94	Satisfactory result			

Summary for all samples

(939) Overall assessment (score)	16	16	15	94
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