

Summary statistics - qualitative results**EQA round: DIF1/24 - Peripheral Blood Morphology Evaluation**

Deadline: 15.3.2024

Setup: all data

AV = assigned value CVE = consensus of the experts >>> ... expected result > ... acceptable result ± ... result not assessed	N_{tot} = total number of the results N_{rel} = relative number of the results	N_{eva} = number of the results assessed N_{suc} = number of successful results S_{rel} = relative success
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Sample Test Group	AV	N_{tot}	N_{rel}	Frequency of the results Result [%]	Success N_{eva}	N_{suc}	S_{rel} [%]
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Sample A

(921) WBC - morphology

All results	2	1,3	Not specified
	5	3,3	No changes
	1	0,7	Hypergranulation/toxic granulation
	5	3,3	Agranulation
	2	1,3	Neutrophil hypersegmentation
	2	1,3	Hyposegmentation / asegmentation / pelgeroid
CVE >>>	33	22	Atypical/reactive/pathological monocytes/promono.
	19	12	Denuded nuclei/cells, nuclear shadows / smudge cells
	1	0,7	Cytoplasmatic fragments
	>	35	Vacuolisation
CVE >>>	80	52	LGL/big lymphocytes
CVE >>>	113	74	Lymphocytes - reactive forms
	12	7,8	Lymphocytes - atypical forms (except "hairy")
	1	0,7	Nucleus fragments of neutrophiles

(922) WBC - count changes (relative)

All results	1	0,7	Not specified
	31	20	Normal count
CVE >>>	110	72	Neutropenia
CVE >>>	77	50	Lymphocytosis
	2	1,3	Eosinophilia
	>	44	Basophilia
	>	78	Monocytosis
	1	0,7	Monocytopenia
	3	2	Left shift

(923) RBC - morphology

All results	27	18	No changes
CVE >>>	91	59	Normocytosis
	3	2	Anisocytosis
	4	2,6	Poikilocytosis
CVE >>>	56	37	Eliptocytes, ovalocytes
	5	3,3	Spherocytes
	>	58	Stomatocytes
	1	0,7	Drepanocytes
	15	9,8	Dacyryocytes
	1	0,7	Acanthocytes
	1	0,7	Echinocytes
CVE >>>	96	63	Target cells
	5	3,3	Schistocytes (and other fragmentocytes)
	4	2,6	Polychromasia
	>	43	Hypochromia
	3	2	Howell-Jolly bodies
	7	4,6	Rouleaux formation
	1	0,7	Pappenheimer bodies

(924) Platelets - morphology

All results	CVE >>>	86	56	Large platelets
		4	2,6	Small platelets
CVE >>>	43	28	Platelet aggregates	
CVE >>>	152	99	Platelet satellitism	
	3	2	Platelets hypogranulation	

(925) Clinical recommendation - smear assessment

All results	CVE >>>	105	69	Blood smear is pathological
	>	48	31	Blood smear within physiological limits or with reactive changes

(926) Clinical recommendation - examination

All results	CVE >>>	99	65	An examination by the specialist/haematologist is recommended
	>	54	35	An examination by the specialist/haematologist is not necessary

(927) Estimation of diagnosis

All results	1	0,7	Not specified
	4	2,7	Physiological finding

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				Result	[%]	
	1	0,7	Anemia: Normocytosis			
	2	1,4	Anemia: Hypochromia			
	3	2	Anaemia: Thalassemia and other congenital anaemias			
	1	0,7	Acute leukemia: AML (acute myeloid leukemia)			
	1	0,7	Myelodysplastic syndrome: Myelodysplastic syndrome			
	1	0,7	Chronic myeloproliferative disease: Exact determination impossible			
	7	4,8	Mature lymphocytic cells neoplasms: Exact determination impossible			
	>	19	Platelets disorders: Thrombocytopenia			
	>	70	Platelets disorders: Other			
	6	4,1	Other: Viral infection incl. inf. mononucleosis			
	>	79	Other: Other reactive changes			
	>	17	Other: Other disease			
(928) How do you rate the technical quality of the smear?		151				0
All results	±	137	91	Acceptable		
	±	14	9,3	Not acceptable (give a reason)		
(929) How do you rate the staining of the smear?		150				0
All results	±	136	91	Acceptable		
	±	14	9,3	Not acceptable (give a reason)		
(939) Overall assessment (score)		153				153 110 72
Maximum score achievable: 111 points				Criterion (60 % out of the maximum): 67 points		
Minimum score achieved: 33 points (29,7 %)						
Maximum score achieved: 105 points (94,6 %)						
All results		43	28	Unacceptable result		
	>>>	110	72	Satisfactory result		

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

All results	2	1,3	Not specified
	>	56	37 No changes
		12	7,8 Agranulation
		10	6,5 Neutrophil hypersegmentation
		2	1,3 Döhle bodies
		3	2 Atypical/reactive/pathological monocytes/promono.
		2	1,3 Denuded nuclei/cells, nuclear shadows / smudge cells
	>	30	20 Vacuolisation
		18	12 LGL/big lymphocytes
CVE >>>	67	44	Lymphocytes - reactive forms
		3	2 Lymphocytes - atypical forms (except "hairy")

(922) WBC - count changes (relative)

All results	3	2	Not specified
CVE >>>	118	77	Normal count
	28	18	Neutrophilia
	5	3,3	Lymphocytopenia
	5	3,3	Basophilia
	1	0,7	Monocytopenia
	3	2	Left shift

(923) RBC - morphology

All results	1	0,7	Normocytosis
CVE >>>	137	90	Microcytosis
	1	0,7	Macrocytosis
CVE >>>	145	95	Anisocytosis
	19	12	Poikilocytosis
	7	4,6	Eliptocytes, ovalocytes
CVE >>>	129	10	Spherocytes
	3	2	Stomatocytes
	7	4,6	Drepanocytes
	2	1,3	Dacryocytes
CVE >>>	120	78	Echinocytes
	25	Target cells	
CVE >>>	64	16	Schistocytes (and other fragmentocytes)
CVE >>>	137	42	Polychromasia
CVE >>>	140	90	Hypochromia
		92	Basophilic stippling

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Sample Test Group	AV	N _{tot}	N _{rel} [%]	Frequency of the results		Success N _{eva} N _{suc} S _{rel} [%]
				Result		
		9	5,9	Howell-Jolly bodies		
		9	5,9	Rouleaux formation		
		3	2	Pappenheimer bodies		
(924) Platelets - morphology						
All results	CVE >>>	31	20	No changes		
		120	78	Large platelets		
		6	3,9	Small platelets		
		1	0,7	Platelet satellitism		
		2	1,3	Platelets hypogranulation		
(925) Clinical recommendation - smear assessment						
All results	CVE >>>	143	93	Blood smear is pathological		
		10	6,5	Blood smear within physiological limits or with reactive changes		
(926) Clinical recommendation - examination						
All results	CVE >>>	145	95	An examination by the specialist/haematologist is recommended		
		8	5,2	An examination by the specialist/haematologist is not necessary		
(927) Estimation of diagnosis						
All results		1	0,7	Physiological finding		
		2	1,4	Anemia: Without closer determination		
		13	8,8	Anemia: Microcytosis		
		5	3,4	Anemia: Hypochromia		
		1	0,7	Anemia: Haemolytic		
	CVE >>>	132	90	Anaemia: Thalassemia and other congenital anaemias		
		1	0,7	Mature lymphocytic cells neoplasms: Exact determination impossible		
		1	0,7	Platelets disorders: Other		
		3	2	Other: Viral infection incl. inf. mononucleosis		
		13	8,8	Other: Other reactive changes		
		3	2	Other: Other disease		
(928) How do you rate the technical quality of the smear?		151				0
All results		±	147	97 Acceptable		
		±	4	2,6 Not acceptable (give a reason)		
(929) How do you rate the staining of the smear?		150				0
All results		±	142	95 Acceptable		
		±	8	5,3 Not acceptable (give a reason)		
(939) Overall assessment (score)		153				153 143 93
	Maximum score achievable: 111 points		Criterion (60 % out of the maximum): 67 points			
	Minimum score achieved: 32 points (28,8 %)					
	Maximum score achieved: 111 points (100 %)					
All results		10	6,5	Unacceptable result		
	>>>	143	93	Satisfactory result		

Summary for all samples

(939) Overall assessment (score)	153	153	108	71
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