

Setup: Slovakia

AV = assigned value

N_{tot} = total number of the resultsN_{eva} = number of the results assessedN_{rel} = relative number of the resultsN_{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	20	Agranulation			
		2	10	Neutrophil hypersegmentation			
	CVE >>>	20	100	Denuded nuclei/cells, nuclear shadows / smudge cells			
		2	10	Vacuolisation			
		2	10	LGL/big lymphocytes			
		4	20	Lymphocytes - reactive forms			
	CVE >>>	15	75	Lymphocytes - atypical forms (except "hairy")			

(922) WBC - count changes (relative)

All results	CVE >>>	18	90	Neutropenia			
	CVE >>>	20	100	Lymphocytosis			
	CVE >>>	11	55	Monocytopenia			
		3	15	Left shift			

(923) RBC - morphology

All results		5	25	No changes			
	CVE >>>	9	45	Normocytosis			
		1	5	Anisocytosis			
		2	10	Poikilocytosis			
	CVE >>>	6	30	Eliptocytes, ovalocytes			
		5	25	Spherocytes			
		1	5	Stomatocytes			
		1	5	Dacryocytes			
		1	5	Acanthocytes			
		3	15	Echinocytes			
		1	5	Target cells			
		1	5	Schistocytes (and other fragmentocytes)			
		1	5	Polychromasia			
	CVE >>>	7	35	Hypochromia			
		1	5	Rouleaux formation			

(924) Platelets - morphology

All results	CVE >>>	15	75	No changes			
		4	20	Large platelets			
		4	20	Small platelets			

(925) Clinical recommendation - smear assessment

All results	CVE >>>	20	100	Blood smear is pathological			
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(926) Clinical recommendation - examination

All results	CVE >>>	20	100	An examination by the specialist/haematologist is recommended			
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(927) Estimation of diagnosis

All results		2	10	Anemia: Normocytosis			
		1	5	Anemia: Hypochromia			
		1	5	Acute leukemia: Without closer determination			
		1	5	Chronic myeloproliferative disease: Exact determination impossible			
		2	10	Mature lymphocytic cells neoplasms: Exact determination impossible			
	CVE >>>	14	70	Mature lymphocytic cells neoplasms: CLL (chronic lymphocytic leukaemia)			
		4	20	Mature lymphocytic cells neoplasms: PLL (prolymphocytic leukaemia)			
		2	10	Platelets disorders: Thrombocytopenia			
		1	5	Other: Other disease			

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

All results	±	20	100	Acceptable			0
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(929) How do you rate the staining of the smear?

All results	±	20	100	Acceptable			0
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Setup: Slovakia

Sample Test Group	Frequency of the results			Success			
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(939) Overall assessment		20			20	19	95
Maximum score achievable: 105 points				Criterion (60 % out of the maximum): 63 points			
Minimum score achieved: 56 points (53,3 %)							
Maximum score achieved: 91 points (86,7 %)							
All results		1	5	Unacceptable result			
	>>>	19	95	Correct result			

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

All results		1	5	No changes
		6	30	Agranulation
		1	5	Neutrophil hypersegmentation
		1	5	Hyosegmentation / asegmentation / pelgeroid
		1	5	Auer rods
	>	2	10	Atypical/reactive/pathological monocytes/promono.
CVE >>>	15	75	Denuded nuclei/cells, nuclear shadows / smudge cells	
		2	10	Cytoplasmatic fragments
CVE >>>	7	35	Vacuolisation	
		2	10	LGL/big lymphocytes
		3	15	Lymphocytes - atypical forms (except "hairy")
		1	5	Nucleus fragments of neutrophiles
		4	20	Abnormal/leukemic promyelocytes

(922) WBC - count changes (relative)

All results	CVE >>>	16	80	Neutropenia
		3	15	Lymphocytosis
		4	20	Lymphocytopenia
		1	5	Monocytosis
	>	12	60	Monocytopenia
	CVE >>>	15	75	Left shift

(923) RBC - morphology

All results		1	5	Normocytosis
	CVE >>>	9	45	Microcytosis
	CVE >>>	16	80	Anisocytosis
		1	5	Poikilocytosis
		1	5	Eliptocytes, ovalocytes
	>	10	50	Spherocytes
		5	25	Stomatocytes
		3	15	Dacryocytes
		1	5	Acanthocytes
		3	15	Polychromasia
	CVE >>>	6	30	Hypochromia
		1	5	Howell-Jolly bodies
		2	10	Rouleaux formation
		1	5	RBC agglutination

(924) Platelets - morphology

All results	>	12	60	No changes
	>	5	25	Large platelets
		4	20	Small platelets
		1	5	Platelet aggregates
	>	1	5	Platelets hypogranulation

(925) Clinical recommendation - smear assessment

All results	CVE >>>	20	100	Blood smear is pathological
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(926) Clinical recommendation - examination

All results	CVE >>>	20	100	An examination by the specialist/haematologist is recommended
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(927) Estimation of diagnosis

All results		1	5	Anemia: Normocytosis
		1	5	Anemia: Hypochromia
	>	13	65	Acute leukemia: Without closer determination
CVE >>>	10	50	Acute leukemia: AML (acute myeloid leukemia)	
		1	5	Myelodysplastic syndrome: Myelodysplastic syndrome
		1	5	Chronic myeloproliferative disease: Exact determination impossible
		2	10	Platelets disorders: Thrombocytopenia
		1	5	Other: Viral infection incl. inf. mononucleosis
		1	5	Other: Other reactive changes

EQA round: DIF1/23 - Peripheral Blood Morphology Evaluation

Deadline: 17.3.2023

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Sample Test Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(928) How do you rate the technical quality of the smear?		20				0	
All results	±	20	100	Acceptable			
(929) How do you rate the staining of the smear?		20				0	
All results	±	20	100	Acceptable			
(939) Overall assessment		20			20	15	75
Maximum score achievable: 93 points				Criterion (60 % out of the maximum): 56 points			
Minimum score achieved: 31 points (33,3 %)							
Maximum score achieved: 81 points (87,1 %)							
All results			5	25 Unacceptable result			
	>>>	15	75	Correct result			

Summary for all samples

(939) Overall assessment		20			20	15	75
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