

Setup: all data

AV = assigned value

CVE = consensus of the experts

&gt;&gt;&gt; ... expected result

&gt; ... acceptable result

± ... result not assessed

N<sub>tot</sub> = total number of the resultsN<sub>rel</sub> = relative number of the resultsN<sub>eva</sub> = number of the results assessedN<sub>suc</sub> = number of successful resultsS<sub>rel</sub> = relative success

Sample Test Group	Frequency of the results				Success		
	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]

**Photo 1****(821) Object no. 1: type of cell**

All results CVE &gt;&gt;&gt; 56 100 Neutrophil segment

**(822) Object no. 1: morphology**

All results

		1	1,8	Not specified
		2	3,6	No changes
	>	13	23	Hypogranulation/agranulation
		11	20	Hyposegmentation or pseudo Pelger anomaly
		1	1,8	Hypersegmented granulocytes
	CVE >>>	49	88	Döhle bodies

**(823) Object no. 2: type of cell**

All results

		1	1,8	Promyelocyte
		1	1,8	Neutrophil metamyelocyte
		4	7,1	Neutrophil segment
	CVE >>>	50	89	Monocyte

**(824) Object no. 2: morphology**

All results

		1	1,8	Not specified
		17	30	No changes
		4	7,1	Hypogranulation/agranulation
		3	5,4	Hyposegmentation or pseudo Pelger anomaly
	CVE >>>	26	46	Döhle bodies
	>	17	30	Atypical/reactive monocytes

**(841) RBC - morphology**

All results

		3	5,4	No changes
		6	11	Anisocytosis
	>	11	20	Normocytosis
		2	3,6	Anisochromia
	>	7	13	Hypochromia
		3	5,4	Dacryocytes
		1	1,8	Echinocytes
	>	11	20	Ovalocytes
	>	11	20	Knizocytes
		7	13	Spherocytes
		1	1,8	Schistocytes (and other fragmentocytes)
		14	25	Stomatocytes
	CVE >>>	46	82	Target cells
		1	1,8	Malaric plasmodia
		1	1,8	Pappenheimer bodies
	>	8	14	Rouleaux formation

**(842) Platelets - morphology**

All results

		1	1,8	No changes
	CVE >>>	30	54	Anisocytosis
		12	21	Platelets hypo-/agranulation
	CVE >>>	49	88	Large platelets
		3	5,4	Platelet satellitism

**(835) Overall assessment**

56 56 45 80

Maximum score achievable: 35 points

Criterion (60 % out of the maximum): 21 points

Minimum score achieved: 6 points (17,1 %)

Maximum score achieved: 35 points (100 %)

All results

		11	20	Unacceptable result
	>>>	45	80	Correct result

**Photo 2****(821) Object no. 1: type of cell**

All results

		1	1,8	Blast
	CVE >>>	55	98	Lymphocyte

**(822) Object no. 1: morphology**

All results

		1	1,8	Not specified
		4	7,1	No changes
	CVE >>>	46	82	Lymphocytes - atypical forms
		5	8,9	Lymphocytes - reactive forms
		1	1,8	Granules (pseudo) Chediak-Higashi

Setup: all data

Sample Test Group	Frequency of the results				Success		
	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
<b>(823) Object no. 2: type of cell</b>							
All results	CVE >>>	56	100	Eosinophil segment			
<b>(824) Object no. 2: morphology</b>							
All results	>	30	54	No changes			
		1	1,8	Hypergranulation/toxic granulation			
	CVE >>>	25	45	Vacuolisation			
<b>(825) Object no. 3: type of cell</b>							
All results	CVE >>>	56	100	Eosinophil segment			
<b>(826) Object no. 3: morphology</b>							
All results	>	23	41	No changes			
		4	7,1	Hypergranulation/toxic granulation			
		8	14	Hypersegmented granulocytes			
	CVE >>>	27	48	Vacuolisation			
<b>(841) RBC - morphology</b>							
All results	>	2	3,6	Anisocytosis			
		5	8,9	Normocytosis			
		1	1,8	Poikilocytosis			
		3	5,4	Anisochromia			
	CVE >>>	20	36	Hypochromia			
		1	1,8	Acanthocytes			
	>	21	38	Dacryocytes			
	>	42	75	Echinocytes			
	CVE >>>	38	68	Ovalocytes			
		1	1,8	Knizocytes			
		4	7,1	Spherocytes			
		14	25	Schistocytes (and other fragmentocytes)			
	CVE >>>	51	91	Stomatocytes			
		1	1,8	Target cells			
		2	3,6	Howell-Jolly bodies			
		1	1,8	Pappenheimer bodies			
	>	36	64	Rouleaux formation			
<b>(842) Platelets - morphology</b>							
All results		2	3,6	No changes			
	CVE >>>	47	84	Anisocytosis			
		1	1,8	Platelets hypo-/agranulation			
	CVE >>>	53	95	Large platelets			
		4	7,1	Small platelets			
<b>(835) Overall assessment</b>							
		56			56	47	84
Maximum score achievable: 55 points Criterion (60 % out of the maximum): 33 points							
Minimum score achieved: 18 points (32,7 %)							
Maximum score achieved: 55 points (100 %)							
All results		9	16	Unacceptable result			
	>>>	47	84	Correct result			

### Photo 3

<b>(821) Object no. 1: type of cell</b>							
All results	CVE >>>	56	100	Neutrophil segment			
<b>(822) Object no. 1: morphology</b>							
All results	>	35	63	No changes			
	>	20	36	Hypogranulation/agranulation			
		1	1,8	Hypersegmented granulocytes			
<b>(823) Object no. 2: type of cell</b>							
All results	CVE >>>	54	96	Monocyte			
		2	3,6	Lymphocyte			
<b>(824) Object no. 2: morphology</b>							
All results	CVE >>>	47	84	No changes			
		1	1,8	Lymphocytes - atypical forms			
		5	8,9	Atypical/reactive monocytes			
		1	1,8	Lymphocytes - reactive forms			
		2	3,6	Vacuolisation			
<b>(841) RBC - morphology</b>							
All results	>	13	23	Anisocytosis			
		1	1,8	Macrocytosis			
		7	13	Normocytosis			
		5	8,9	Poikilocytosis			
		2	3,6	Anisochromia			
		3	5,4	Hypochromia			

Setup: all data

Sample Test Group	Frequency of the results				Success		
	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
		2	3,6	Acanthocytes			
	>	16	29	Dacryocytes			
	>	21	38	Echinocytes			
		3	5,4	Eliptocytes			
	CVE >>>	49	88	Ovalocytes			
	>	28	50	Knizocytes			
		5	8,9	Spherocytes			
	CVE >>>	48	86	Schistocytes (and other fragmentocytes)			
	CVE >>>	39	70	Stomatocytes			
		3	5,4	Target cells			
		1	1,8	Howell-Jolly bodies			
		1	1,8	Pappenheimer bodies			
<b>(842) Platelets - morphology</b>							
All results		1	1,8	Not specified			
	CVE >>>	34	61	No changes			
	>	21	38	Anisocytosis			
		1	1,8	Platelets hypo-/agranulation			
		2	3,6	Small platelets			
<b>(835) Overall assessment</b>					56	48	86
Maximum score achievable: 35 points		Criterion (60 % out of the maximum): 21 points					
Minimum score achieved: 3 points (8,6 %)							
Maximum score achieved: 35 points (100 %)							
All results		8	14	Unacceptable result			
	>>>	48	86	Correct result			

**Photo 4****(821) Object no. 1: type of cell**

All results	CVE >>>	55	98	Neutrophil segment			
		1	1,8	Eosinophil segment			

**(822) Object no. 1: morphology**

All results		5	8,9	No changes			
	CVE >>>	51	91	Hypergranulation/toxic granulation			
		1	1,8	Hypersegmented granulocytes			
		3	5,4	Döhle bodies			

**(841) RBC - morphology**

All results	CVE >>>	49	88	Anisocytosis			
		2	3,6	Microcytosis			
		2	3,6	Macrocytosis			
	>	14	25	Poikilocytosis			
		5	8,9	Anisochromia			
	CVE >>>	47	84	Hypochromia			
		7	13	Polychromasia			
		1	1,8	Acanthocytes			
	CVE >>>	55	98	Dacryocytes			
		1	1,8	Drepanocytes			
	>	15	27	Ovalocytes			
	CVE >>>	43	77	Knizocytes			
	>	17	30	Spherocytes			
	CVE >>>	48	86	Schistocytes (and other fragmentocytes)			
	>	39	70	Stomatocytes			
	CVE >>>	55	98	Target cells			
		1	1,8	Howell-Jolly bodies			
		1	1,8	Pappenheimer bodies			
		1	1,8	RBC agglutination			
		2	3,6	Rouleaux formation			

**(842) Platelets - morphology**

All results		3	5,4	No changes			
	CVE >>>	51	91	Anisocytosis			
	CVE >>>	40	71	Platelets hypo-/agranulation			
		3	5,4	Large platelets			
		1	1,8	Small platelets			

**(835) Overall assessment**

Maximum score achievable: 50 points		Criterion (60 % out of the maximum): 30 points			56	52	93
Minimum score achieved: 23 points (46 %)							
Maximum score achieved: 50 points (100 %)							
All results		4	7,1	Unacceptable result			
	>>>	52	93	Correct result			

EQA round: NF1/23 - Peripheral Blood Smears - Photos

Deadline: 17.3.2023

Setup: all data

Sample Test Group	Frequency of the results			Success		
	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>

Summary for all samples						
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(835) Overall assessment		56			56	49	88
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