

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> [%]

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

All results		3	1,9	Not specified
		31	20	No changes
		6	3,8	Hypergranulation/toxic granulation
	>	25	16	Giant bands and metamyelocytes
	>	47	30	Agranulation
		7	4,4	Neutrophil hypersegmentation
		12	7,6	Hyposegmentation / asegmentation / pelgeroid
		1	0,6	Auer rods
		1	0,6	Atypical/reactive/pathological monocytes/promono.
		11	7	Denuded nuclei/cells, nuclear shadows / smudge cells
		2	1,3	Cytoplasmatic fragments
	>	70	44	Vacuolisation
		1	0,6	Lymphocytes - reactive forms
		4	2,5	Nucleus fragments of neutrophiles
		5	3,2	Abnormal/leukemic promyelocytes
		1	0,6	Granules (pseudo) Chediak-Higashi

**(922) WBC - count changes (relative)**

All results		10	6,3	Neutropenia
	CVE >>>	103	65	Neutrophilia
	CVE >>>	152	96	Lymphocytopenia
		6	3,8	Eosinophilia
	CVE >>>	148	94	Basophilia
		18	11	Monocytopenia
	CVE >>>	154	97	Left shift

**(923) RBC - morphology**

All results		4	2,5	No changes
		9	5,7	Normocytosis
		1	0,6	Microcytosis
		1	0,6	Macrocytosis
	CVE >>>	149	94	Anisocytosis
		4	2,5	Poikilocytosis
		12	7,6	Eliptocytes, ovalocytes
		14	8,9	Spherocytes
	>	37	23	Stomatocytes
		10	6,3	Dacryocytes
		1	0,6	Echinocytes
		1	0,6	Target cells
		1	0,6	Schistocytes (and other fragmentocytes)
	CVE >>>	65	41	Polychromasia
		4	2,5	Hypochromia
		8	5,1	Basophilic stippling
		3	1,9	Rouleaux formation

**(924) Platelets - morphology**

All results		1	0,6	Not specified
	>	43	27	No changes
	>	87	55	Large platelets
		6	3,8	Small platelets
		8	5,1	Platelet aggregates
	>	72	46	Platelets hypogranulation
		4	2,5	Megakaryocytic nucleus fragments

**(925) Clinical recommendation - smear assessment**

All results	CVE >>>	158	100	Blood smear is pathological
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**(926) Clinical recommendation - examination**

All results		1	0,6	Not specified
	CVE >>>	157	99	An examination by the specialist/haematologist is recommended

**(927) Estimation of diagnosis**

All results		4	2,5	Anemia: Normocytosis
		1	0,6	Anemia: Microcytosis
		2	1,3	Acute leukemia: Without closer determination
		3	1,9	Acute leukemia: AML (acute myeloid leukemia)

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> [%]
		1	0,6	Myelodysplastic syndrome: Myelodysplastic syndrome			
		18	11	Chronic myeloproliferative disease: Exact determination impossible			
	CVE >>>	141	90	Chronic myeloproliferative disease: CML (chronic myelogenous leukaemia)			
		1	0,6	Mature lymphocytic cells neoplasms: Exact determination impossible			
		1	0,6	Platelets disorders: Thrombocytopenia			
		4	2,5	Platelets disorders: Thrombocytosis			
		1	0,6	Other: Other disease			
(928) How do you rate the technical quality of the smear?		157				0	
All results	±	154	98	Acceptable			
	±	3	1,9	Not acceptable (give a reason)			
(929) How do you rate the staining of the smear?		157				0	
All results	±	108	69	Acceptable			
	±	49	31	Not acceptable (give a reason)			
(939) Overall assessment		158			158	154	97
Maximum score achievable: 87 points				Criterion (60 % out of the maximum): 53 points			
Minimum score achieved: 23 points (26,4 %)							
Maximum score achieved: 87 points (100 %)							
All results		4	2,5	Unacceptable result			
	>>>	154	97	Correct result			

## Sample B

### (921) WBC - morphology

All results		7	4,4	Agranulation			
		1	0,6	Neutrophil hypersegmentation			
		5	3,2	Hyposegmentation / asegmentation / pelgeroid			
		2	1,3	Atypical/reactive/pathological monocytes/promono.			
	CVE >>>	133	84	Denuded nuclei/cells, nuclear shadows / smudge cells			
		2	1,3	Cytoplasmatic fragments			
	>	52	33	Vacuolisation			
		6	3,8	LGL/big lymphocytes			
		3	1,9	Lymphocytes - reactive forms			
		4	2,5	"Hairy" lymphocytes			
	CVE >>>	149	94	Lymphocytes - atypical forms (except "hairy")			
(922) WBC - count changes (relative)							
All results	CVE >>>	155	98	Neutropenia			
	CVE >>>	155	98	Lymphocytosis			
		1	0,6	Lymphocytopenia			
	>	46	29	Monocytopenia			
	>	54	34	Left shift			

### (923) RBC - morphology

All results		5	3,2	Normocytosis			
		4	2,5	Microcytosis			
		1	0,6	Macrocytosis			
	CVE >>>	155	98	Anisocytosis			
		22	14	Poikilocytosis			
	CVE >>>	146	92	Eliptocytes, ovalocytes			
		7	4,4	Spherocytes			
		8	5,1	Stomatocytes			
		15	9,5	Dacryocytes			
		7	4,4	Acanthocytes			
		26	16	Echinocytes			
		3	1,9	Target cells			
	>	45	28	Schistocytes (and other fragmentocytes)			
	CVE >>>	141	89	Polychromasia			
	CVE >>>	87	55	Hypochromia			
	CVE >>>	114	72	Basophilic stippling			
		7	4,4	Howell-Jolly bodies			
		1	0,6	Cabot rings			
		13	8,2	Rouleaux formation			
		1	0,6	Pappenheimer bodies			

### (924) Platelets - morphology

All results		1	0,6	Not specified			
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Setup: all data

Sample Test Group	Frequency of the results			Result	Success		
	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]		N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
	CVE >>>	97	61	No changes			
		18	11	Large platelets			
		6	3,8	Small platelets			
		2	1,3	Platelet aggregates			
	>	47	30	Platelets hypogranulation			
<b>(925) Clinical recommendation - smear assessment</b>							
All results	CVE >>>	158	100	Blood smear is pathological			
<b>(926) Clinical recommendation - examination</b>							
All results		1	0,6	Not specified			
	CVE >>>	156	99	An examination by the specialist/haematologist is recommended			
		1	0,6	An examination by the specialist/haematologist is not necessary			
<b>(927) Estimation of diagnosis</b>							
All results		1	0,6	Not specified			
		4	2,5	Anemia: Without closer determination			
		2	1,3	Anemia: Normocytosis			
		1	0,6	Anemia: Hypochromia			
		2	1,3	Anemia: Haemolytic			
		3	1,9	Acute leukemia: Without closer determination			
		1	0,6	Acute leukemia: ALL (acute lymphoblastic leukemia)			
	CVE >>>	140	89	Mature lymphocytic cells neoplasms: Exact determination impossible			
		8	5,1	Mature lymphocytic cells neoplasms: CLL (chronic lymphocytic leukaemia)			
		2	1,3	Mature lymphocytic cells neoplasms: HCL (hairy cell leukaemia)			
		5	3,2	Mature lymphocytic cells neoplasms: PLL (prolymphocytic leukaemia)			
		9	5,7	Platelets disorders: Thrombocytopenia			
		2	1,3	Other: Other disease			
<b>(928) How do you rate the technical quality of the smear?</b>							
All results		± 154	98	Acceptable			0
		± 3	1,9	Not acceptable (give a reason)			
<b>(929) How do you rate the staining of the smear?</b>							
All results		± 129	82	Acceptable			0
		± 28	18	Not acceptable (give a reason)			
<b>(939) Overall assessment</b>							
		158			158	154	97
Maximum score achievable: 111 points Criterion (60 % out of the maximum): 67 points							
Minimum score achieved: 56 points (50,5 %)							
Maximum score achieved: 111 points (100 %)							
All results		4	2,5	Unacceptable result			
	>>>	154	97	Correct result			

**Summary for all samples**

<b>(939) Overall assessment</b>	158	158	152	96
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