

# SUMMARY STATISTICS

Filter: Slovakia

## EQA round: DIF4/17 - Peripheral Blood Morphology Evaluation

Dead line (EQA round closed): 27.10.2017

Key:	ELG ... expert laboratories group	> ... possible result (found by ELG, but consensus not reached)
	AV, >>> ... assigned value type CVE (consensus of ELG)	
	RAR ... range of acceptable results	
	RoM ... robust average of all results	

	Sample A			Sample B		
	AV	RAR	RoM	AV	RAR	RoM
<b>WBC - differential count</b>						
Blasts	0	0,000 - 0,018	0,000	0,009	0,001 - 0,036	0,009
Promyelocytes	0	0,000 - 0,018	0,000	0,015	0,000 - 0,043	0,020
Neutrophil myelocytes	0	0,000 - 0,018	0,000	0,132	0,087 - 0,185	0,139
Neutrophil metamyelocytes	0	0,000 - 0,018	0,000	0,093	0,055 - 0,144	0,089
Neutrophil bars	0,006	0,000 - 0,028	0,006	0,198	0,140 - 0,262	0,191
Segmented neutrophil granulocytes	0,223	0,169 - 0,289	0,226	0,379	0,312 - 0,451	0,369
Eosinophil granulocytes - immature forms	0	0,000 - 0,018	0,000	0,002	0,000 - 0,018	0,001
Eosinophil segmented granulocytes	0,012	0,001 - 0,036	0,012	0,008	0,000 - 0,036	0,009
Basophilic granulocytes	0,007	0,000 - 0,028	0,004	0,010	0,001 - 0,036	0,010
Monocytes	0,027	0,008 - 0,057	0,026	0,060	0,031 - 0,102	0,057
Lymphocytes	0,726	0,658 - 0,786	0,722	0,089	0,054 - 0,139	0,098
Plasma cells	0	0,000 - 0,018	0,000	0	0,000 - 0,018	0,000
Erythroblasts (number)	0	0,000 - 2,000	0,000	1,000	0,000 - 4,000	1,260

Sample A				Sample B			
<b>WBC - morphology</b>							
1	Hypergranulation/toxic granulation	8,3 %	>>> 12	Hypergranulation/toxic granulation		100 %	
1	Hypogranulation/agranulation	8,3 %	>>> 2	Giant bands and metamyelocytes		17 %	
2	Hypersegmented granulocytes	17 %	> 5	Hyposegmentation or pseudo Pelger anomaly		42 %	
>>> 12	Denuded nuclei/cells, nuclear shadows / smudge cells	100 %	> 2	Denuded nuclei/cells, nuclear shadows / smudge cells		17 %	
> 2	Vacuolisation	17 %	> 7	Vacuolisation		58 %	
6	Lymphocytes - reactive forms	50 %	1	LGL/big lymphocytes		8,3 %	
1	"Hairy" lymphocytes	8,3 %	3	Lymphocytes - reactive forms		25 %	
>>> 9	Lymphocytes - atypical forms	75 %	1	Lymphocytes - atypical forms		8,3 %	

<b>WBC - relative changes of count</b>							
>>> 10	Neutropenia	83 %	1	Neutropenia		8,3 %	
>>> 12	Lymphocytosis	100 %	>>> 6	Neutrophilia		50 %	
1	Eosinophilia	8,3 %	>>> 11	Lymphocytopenia		92 %	
> 1	Monocytopenia	8,3 %	> 1	Basophilia		8,3 %	
1	Left shift	8,3 %	1	Monocytosis		8,3 %	
			>>> 12	Left shift		100 %	

<b>RBC - morphology</b>							
>>> 5	No changes	42 %	1	Normocytosis		8,3 %	
11	Normocytosis	92 %	>>> 12	Anisocytosis		100 %	
1	Anisocytosis	8,3 %	4	Poikilocytosis		33 %	
1	Spherocytes	8,3 %	>>> 7	Eliptocytes, ovalocytes		58 %	
3	Stomatocytes	25 %	>>> 2	Spherocytes		17 %	
1	Acanthocytes	8,3 %	> 8	Stomatocytes		67 %	
1	Schistocytes (and other fragmentocytes)	8,3 %	1	Drepanocytes		8,3 %	
1	Hypochromia	8,3 %	>>> 9	Dacryocytes		75 %	
2	Rouleaux formation	17 %	1	Acanthocytes		8,3 %	
			> 5	Schistocytes (and other fragmentocytes)		42 %	
			>>> 5	Polychromasia		42 %	
			>>> 2	Hypochromia		17 %	
			1	Basophilic stippling		8,3 %	
			1	Rouleaux formation		8,3 %	

<b>Platelets - morphology</b>							
>>> 7	No changes	58 %	1	No changes		8,3 %	
5	Large platelets	42 %	>>> 11	Large platelets		92 %	
1	Small platelets	8,3 %	1	Small platelets		8,3 %	
			> 2	Platelets hypogranulation		17 %	

Sample A		Sample B	
<b>Platelets - morphology</b>		>	Megakaryocytic nucleus fragments
<b>Clinical recommendation - smear</b>			
>>> 12	Blood smear is pathological	100 %	>>> 12 Blood smear is pathological 100 %
<b>Clinical recommendation - examination</b>			
>>> 12	An examination by the specialist/haematologist is recommended	100 %	>>> 12 An examination by the specialist/haematologist is recommended 100 %
<b>Diagnosis - myelodysplastic syndrome</b>			
		1	Myelodysplastic syndrome 8,3 %
<b>Diagnosis - chronic myeloproliferative disease</b>			
		>>> 4	Exact determination impossible 33 %
		> 7	CML 58 %
		> 6	Myelofibrosis 50 %
<b>Diagnosis - mature lymphocytic cells neoplasms</b>			
>	Exact determination impossible		
>>> 12	CLL	100 %	
> 3	Other lymphoproliferative diseases	25 %	
<b>Smear quality</b>			
11	Acceptable	92 %	11 Acceptable 92 %
1	Not acceptable	8,3 %	1 Not acceptable 8,3 %
<b>Staining</b>			
12	Acceptable	100 %	12 Acceptable 100 %
<b>Evaluation of the results - scoring system</b>			
<b>Sample A</b>		<b>Sample B</b>	
<b>Maximal achievable score: 87</b>		<b>Maximal achievable score: 117</b>	
Successful participants (success 60 % and more): 12 (it is 100 %)		Successful participants (success 60 % and more): 11 (it is 92 %)	
Minimal success in this round: 64,4 %		Minimal success in this round: 52,1 %	
Maximal success in this round: 98,9 %		Maximal success in this round: 88,9 %	
<b>Number of participants: 12</b>			
in both samples: 11 (it is 92 %)			
<b>Number of participants that succeeded:</b> in one sample: 1 (it is 8 %)			
in no sample: 0 (it is 0 %)			