

# SUMMARY STATISTICS

Filter: Slovakia

## EQA round: DIF2/19 - Peripheral Blood Morphology Evaluation

Dead line (EQA round closed): 24.05.2019

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	0,002	0,000 - 0,018	0,004
Promyelocytes	0	0,000 - 0,018	0,000	0,002	0,000 - 0,018	0,005
Neutrophil myelocytes	0	0,000 - 0,018	0,000	0,072	0,039 - 0,115	0,073
Neutrophil metamyelocytes	0	0,000 - 0,018	0,000	0,053	0,020 - 0,096	0,047
Neutrophil bars	0,001	0,000 - 0,018	0,005	0,059	0,031 - 0,102	0,060
Segmented neutrophil granulocytes	0,434	0,365 - 0,507	0,436	0,110	0,070 - 0,162	0,096
Eosinophil granulocytes - immature forms	0	0,000 - 0,018	0,000	0	0,000 - 0,018	0,000
Eosinophil segmented granulocytes	0,065	0,035 - 0,109	0,058	0,004	0,000 - 0,028	0,006
Basophilic granulocytes	0,013	0,003 - 0,043	0,010	0,002	0,000 - 0,018	0,002
Monocytes	0,085	0,050 - 0,133	0,075	0,530	0,458 - 0,601	0,492
Lymphocytes	0,405	0,336 - 0,477	0,413	0,169	0,121 - 0,229	0,204
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	0	0,000 - 2,000	0,008

Sample A				Sample B			
<b>WBC - morphology</b>							
1	Hypersegmented granulocytes	9,1 %	>>> 2	Agranulation			18 %
4	Denuded nuclei/cells, nuclear shadows / smudge cells	36 %	>>> 2	Hyopsegmentation / asegmentation / pelgeroid			18 %
>>> 9	Vacuolisation	82 %	1	Döhle bodies			9,1 %
> 7	Lymphocytes - reactive forms	64 %	>>> 8	Atypical/reactive monocytes			73 %
1	Lymphocytes - atypical forms	9,1 %	>>> 4	Denuded nuclei/cells, nuclear shadows / smudge cells			36 %
			> 7	Vacuolisation			64 %
			1	LGL/big lymphocytes			9,1 %
			3	Lymphocytes - reactive forms			27 %
			2	Nucleus fragments of neutrophils			18 %

<b>WBC - relative changes of count</b>							
> 4	Normal count	36 %	>>> 11	Neutropenia			100 %
> 3	Neutropenia	27 %	>>> 2	Lymphocytopenia			18 %
> 1	Lymphocytosis	9,1 %	>>> 10	Monocytosis			91 %
> 6	Eosinophilia	55 %	>>> 8	Left shift			73 %
> 1	Basophilia	9,1 %					
1	Monocytosis	9,1 %					

<b>RBC - morphology</b>							
>>> 7	No changes	64 %	>>> 9	Macrocytosis			82 %
7	Normocytosis	64 %	7	Anisocytosis			64 %
1	Spherocytes	9,1 %	1	Poikilocytosis			9,1 %
2	Rouleaux formation	18 %	>>> 3	Eliptocytes, ovalocytes			27 %
			2	Spherocytes			18 %
			2	Stomatocytes			18 %
			1	Drepanocytes			9,1 %
			>>> 9	Dacryocytes			82 %
			1	Echinocytes			9,1 %
			> 4	Schistocytes (and other fragmentocytes)			36 %
			>>> 6	Polychromasia			55 %
			1	Basophilic stippling			9,1 %
			2	Rouleaux formation			18 %

<b>Platelets - morphology</b>							
> 2	No changes	18 %	1	No changes			9,1 %
> 8	Large platelets	73 %	>>> 9	Large platelets			82 %
2	Small platelets	18 %	1	Small platelets			9,1 %
2	Platelet aggregates	18 %	>>> 2	Platelets hypogranulation			18 %

Sample A		Sample B	
<b>Platelets - morphology</b>			
2	Platelets hypogranulation	18 %	
<b>Clinical recommendation - smear</b>			
2	Blood smear is pathological	18 %	>>> 10 Blood smear is pathological 91 %
>>> 9	Blood smear within physiological limits or with reactive changes	82 %	
<b>Clinical recommendation - examination</b>			
2	An examination by the specialist/haematologist is recommended	18 %	>>> 11 An examination by the specialist/haematologist is recommended 100 %
>>> 9	An examination by the specialist/haematologist is not necessary	82 %	
<b>Diagnosis - anaemia</b>			
			1 Macrocytosis 9,1 %
<b>Diagnosis - myelodysplastic syndrome</b>			
			>>> 5 Myelodysplastic syndrome 45 %
<b>Diagnosis - chronic myeloproliferative disease</b>			
			> 7 Exact determination impossible 64 %
			1 CML (chronic myelogenous leukaemia) 9,1 %
<b>Diagnosis - platelets disorders</b>			
7	Thrombocytosis	64 %	
<b>Diagnosis - other</b>			
>>> 9	Other reactive changes	82 %	> Other disease
<b>Smear quality</b>			
10	Acceptable	91 %	10 Acceptable 91 %
1	Not acceptable (give a reason)	9,1 %	1 Not acceptable (give a reason) 9,1 %
<b>Staining</b>			
10	Acceptable	91 %	10 Acceptable 91 %
1	Not acceptable (give a reason)	9,1 %	1 Not acceptable (give a reason) 9,1 %

**Evaluation of the results - scoring system****DIF2/19**

Sample A	Sample B
<b>Maximal achievable score: 63</b>	<b>Maximal achievable score: 135</b>
Successful participants (success 60 % and more): 9 (it is 82 %)	Successful participants (success 60 % and more): 8 (it is 73 %)
Minimal success in this round: 46,0 %	Minimal success in this round: 48,1 %
Maximal success in this round: 100,0 %	Maximal success in this round: 88,9 %
<b>Number of participants: 11</b>	
in both samples: 7 (it is 64 %)	
in one sample: 3 (it is 27 %)	
in no sample: 1 (it is 9 %)	
<b>Number of participants that succeeded:</b>	