

## SUMMARY STATISTICS

Filter: Slovakia

## EQA round: DIF2/22 - Peripheral Blood Morphology Evaluation

Deadline (EQA round closed): 27.05.2022

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	0,000 - 0,018	0,000
Promyelocytes	0,917	0,867 - 0,950	0,882	0	0,000 - 0,018	0,000
Neutrophil myelocytes	0	0,000 - 0,018	0,011	0	0,000 - 0,018	0,000
Neutrophil metamyelocytes	0	0,000 - 0,018	0,004	0	0,000 - 0,018	0,000
Neutrophil bars	0,005	0,000 - 0,028	0,006	0	0,000 - 0,018	0,000
Segmented neutrophil granulocytes	0,030	0,011 - 0,064	0,035	0,042	0,017 - 0,077	0,046
Eosinophils - immature forms	0	0,000 - 0,018	0,000	0,036	0,014 - 0,071	0,039
Eosinophil segmented granulocytes	0	0,000 - 0,018	0,000	0,839	0,782 - 0,888	0,822
Basophilic granulocytes	0	0,000 - 0,018	0,001	0,022	0,005 - 0,050	0,012
Monocytes	0,005	0,000 - 0,018	0,007	0,007	0,000 - 0,028	0,013
Lymphocytes	0,040	0,017 - 0,077	0,047	0,059	0,030 - 0,102	0,063
Plasma cells	0	0,000 - 0,018	0,000	0	0,000 - 0,018	0,000
Erythroblasts (number)	1,000	0,000 - 4,000	1,195	0	0,000 - 2,000	0,000

## Sample A

## Sample B

## WBC - morphology

2	Agranulation	15 %	2	Hypergranulation/toxic granulation	15 %
>>> 13	Auer rods	100 %	1	Agranulation	7,7 %
1	Atypical/reactive/pathological monocytes/promono.	7,7 %	3	Hypersegmented granulocytes	23 %
>>> 8	Denuded nuclei/cells, nuclear shadows / smudge cells	62 %	1	Hyposegmentation / asegmentation / pelgeroid	7,7 %
2	Cytoplasmatic fragments	15 %	1	Atypical/reactive/pathological monocytes/promono.	7,7 %
1	Vacuolisation	7,7 %	> 4	Denuded nuclei/cells, nuclear shadows / smudge cells	31 %
1	Lymphocytes - atypical forms (except "hairy")	7,7 %	1	Cytoplasmatic fragments	7,7 %
			>>> 11	Vacuolisation	85 %
			2	LGL/big lymphocytes	15 %
			3	Lymphocytes - reactive forms	23 %
			1	Lymphocytes - atypical forms (except "hairy")	7,7 %

## WBC - relative changes of count

>>> 13	Neutropenia	100 %	>>> 13	Neutropenia	100 %
>>> 12	Lymphocytopenia	92 %	>>> 12	Lymphocytopenia	92 %
1	Monocytosis	7,7 %	>>> 13	Eosinophilia	100 %
>>> 10	Monocytopenia	77 %	> 4	Basophilia	31 %
> 8	Left shift	62 %	> 5	Monocytopenia	38 %
			1	Left shift	7,7 %

## RBC - morphology

2	No changes	15 %	>>> 4	No changes	31 %
3	Normocytosis	23 %	6	Normocytosis	46 %
>>> 8	Microcytosis	62 %	2	Anisocytosis	15 %
2	Anisocytosis	15 %	1	Eliptocytes, ovalocytes	7,7 %
1	Poikilocytosis	7,7 %	2	Spherocytes	15 %
> 4	Eliptocytes, ovalocytes	31 %	3	Stomatocytes	23 %
1	Spherocytes	7,7 %	1	Dacryocytes	7,7 %
2	Stomatocytes	15 %	3	Hypochromia	23 %
1	Drepanocytes	7,7 %	1	Basophilic stippling	7,7 %
3	Dacryocytes	23 %	1	Rouleaux formation	7,7 %
> 1	Schistocytes (and other fragmentocytes)	7,7 %	1	Pappenheimer bodies	7,7 %
>>>	Polychromasia				
3	Rouleaux formation	23 %			

## Sample A

## Sample B

## Platelets - morphology

>	9	No changes	69 %	>>>	8	No changes	62 %
>	3	Large platelets	23 %	>>>	3	Large platelets	23 %
>		Small platelets		>>>	1	Small platelets	7,7 %
>		Platelets hypogranulation		>>>	1	Platelet aggregates	7,7 %
				>>>	1	Platelets hypogranulation	7,7 %

## Clinical recommendation - smear

>>>	13	Blood smear is pathological	100 %	>>>	13	Blood smear is pathological	100 %
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## Clinical recommendation - examination

>>>	13	An examination by the specialist/haematologist is recommended	100 %	>>>	12	An examination by the specialist/haematologist is recommended	92 %
				>>>	1	An examination by the specialist/haematologist is not necessary	7,7 %

## Diagnosis - anaemia

2	Microcytosis	15 %
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## Diagnosis - acute leukaemia

3	Without closer determination	23 %	
>>>	10	AML (acute myeloid leukemia)	77 %

## Diagnosis - chronic myeloproliferative disease

>>>	6	Exact determination impossible	46 %
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## Diagnosis - platelets disorders

3	Thrombocytopenia	23 %
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## Diagnosis - other

2	Parasitic infection	15 %	
1	Other reactive changes	7,7 %	
3	Allergy	23 %	
>	6	Other disease	46 %

## Smear quality

13	Acceptable	100 %	12	Acceptable	92 %
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## Staining

13	Acceptable	100 %	12	Acceptable	92 %
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## Evaluation of the results - scoring system

## DIF2/22

## Sample A

## Maximal achievable score: 93

Successful participants (success 60 % and more): 12 (it is 92 %)  
 Minimal success in this round: 58,1 %  
 Maximal success in this round: 92,5 %

## Sample B

## Maximal achievable score: 87

Successful participants (success 60 % and more): 12 (it is 92 %)  
 Minimal success in this round: 50,6 %  
 Maximal success in this round: 97,7 %

## Number of participants: 13

in both samples: 11 (it is 85 %)

Number of the participants that succeeded: in one sample: 2 (it is 15 %)

in no sample: 0 (it is 0 %)