

# SUMMARY STATISTICS

## EQA round: NF1/19 - Peripheral Blood Smears - Photos

Dead line (EQA round closed): 19.04.2019

Professional supervision: Czech Haematological Society  
National Reference Laboratory for Haematology

Key:	>>>	... marks correct (expected) result
	>	... marks conditionally correct (acceptable) result

### Photo 1

Object no.1 WBC and other nucleous elements - types of cells		1	Monocyte	10 %
	>>>	9	Lymphocyte	90 %
WBC - morphology		2	No changes	20 %
	>>>	8	LGL/big lymphocytes	80 %
		1	Lymphocytes - reactive forms	10 %
Object no.2 WBC and other nucleous elements - types of cells	>>>	9	Lymphocyte	90 %
		1	Bare nuclei, smudge cell	10 %
WBC - morphology		7	No changes	70 %
	>>>	2	Lymphocytes - atypical forms	20 %
Object no.3 WBC and other nucleous elements - types of cells	>>>	10	Lymphocyte	100 %
WBC - morphology	>	10	No changes	100 %
RBC - morphology	>	3	Normocytosis	30 %
		1	Spherocytes	10 %
		3	Stomatocytes	30 %
		1	Acanthocytes	10 %
	>	4	Echinocytes	40 %
	>>>	8	Target cells	80 %
	>>>	6	Schistocytes (and other fragmentocytes)	60 %
	>	2	Hypochromia	20 %
	>	6	Howell-Jolly bodies	60 %
		1	Rouleaux formation	10 %
		1	Pappenheimer bodies	10 %
	>	2	Ovalocytes	20 %
Platelets - morphology	>	7	No changes	70 %
		1	Large platelets	10 %
	>	2	Anisocytosis	20 %
	>	2	Platelets hypo-/agranulation	20 %

### Photo 2

Object no.1 WBC and other nucleous elements - types of cells		1	Neutrophil bar	10 %
	>>>	9	Monocyte	90 %
WBC - morphology	>	8	No changes	80 %
		1	Giant bands and metamyelocytes	10 %
	>	1	Atypical/reactive monocytes	10 %
		1	Vacuolisation	10 %
Object no.2 WBC and other nucleous elements - types of cells	>>>	10	Lymphocyte	100 %
WBC - morphology	>	4	No changes	40 %
	>	3	Lymphocytes - reactive forms	30 %
		2	"Hairy" lymphocytes	20 %
		1	Lymphocytes - atypical forms	10 %
Object no.3 WBC and other nucleous elements - types of cells	>>>	10	Neutrophil segment	100 %
WBC - morphology		4	No changes	40 %
	>>>	6	Hypogranulation/agranulation	60 %
		1	Hypersegmented granulocytes	10 %
		1	Hyposegmentation or pseudo Pelger anomaly	10 %
	>>>	4	Vacuolisation	40 %
RBC - morphology		1	Microcytosis	10 %
	>>>	8	Anisocytosis	80 %
	>>>	9	Spherocytes	90 %
		1	Echinocytes	10 %
		2	Schistocytes (and other fragmentocytes)	20 %

**Photo 2**

RBC - morphology		2	Polychromasia	20 %
		1	Howell-Jolly bodies	10 %
		2	Anisochromia	20 %
	>>>	3	Knizocytes	30 %
		2	Ovalocytes	20 %
Platelets - morphology	>>>	10	No changes	100 %

**Photo 3**

Object no.1 WBC and other nucleous elements - types of cells WBC - morphology	>>>	10	Lymphocyte	100 %
		2	No changes	20 %
	>>>	3	LGL/big lymphocytes	30 %
	>	6	Lymphocytes - reactive forms	60 %
Object no.2 WBC and other nucleous elements - types of cells WBC - morphology	>>>	10	Lymphocyte	100 %
		1	Cytoplasmatic fragments	10 %
	>	3	Vacuolisation	30 %
	>>>	4	LGL/big lymphocytes	40 %
	>	6	Lymphocytes - reactive forms	60 %
RBC - morphology		1	No changes	10 %
		2	Normocytosis	20 %
	>	1	Macrocytosis	10 %
	>	2	Anisocytosis	20 %
	>>>	9	Spherocytes	90 %
	>	2	Dacryocytes	20 %
		2	Polychromasia	20 %
		1	Howell-Jolly bodies	10 %
	>	1	Ovalocytes	10 %
	Platelets - morphology	>>>	9	No changes
		1	Anisocytosis	10 %
		1	Platelets hypo-/agranulation	10 %

**Photo 4**

Object no.1 WBC and other nucleous elements - types of cells WBC - morphology	>>>	10	Monocyte	100 %
		5	No changes	50 %
	>>>	4	Atypical/reactive monocytes	40 %
		2	Vacuolisation	20 %
Object no.2 WBC and other nucleous elements - types of cells WBC - morphology	>>>	10	Monocyte	100 %
		5	No changes	50 %
	>>>	4	Atypical/reactive monocytes	40 %
		2	Vacuolisation	20 %
Object no.3 WBC and other nucleous elements - types of cells WBC - morphology	>>>	10	Eosinophil segment	100 %
	>>>	9	No changes	90 %
		2	Hypersegmented granulocytes	20 %
RBC - morphology		2	No changes	20 %
		1	Normocytosis	10 %
		1	Macrocytosis	10 %
		1	Anisocytosis	10 %
	>>>	9	Stomatocytes	90 %
	>	3	Dacryocytes	30 %
	>	2	Echinocytes	20 %
		1	Rouleaux formation	10 %
	>	1	Ovalocytes	10 %
Platelets - morphology	>>>	7	No changes	70 %
		2	Anisocytosis	20 %
		2	Platelets hypo-/agranulation	20 %

**Evaluation of the results - scoring system**

**NF1/19**

	<b>Photo 1</b>	<b>Photo 2</b>	<b>Photo 3</b>	<b>Photo 4</b>
<b>Maximal achievable score:</b>	<b>35</b>	<b>45</b>	<b>30</b>	<b>40</b>
Successful participants (success 60 % and more):	7 (it is 70 %)	6 (it is 60 %)	8 (it is 80 %)	7 (it is 70 %)
Minimal success in this round:	25,7 %	37,8 %	36,7 %	52,5 %
Maximal success in this round:	100,0 %	100,0 %	100,0 %	100,0 %
<b>Number of participants: 10</b>				
<b>Number of participants that succeeded:</b>	{ <ul style="list-style-type: none"> <li>in all 4 photos: 5 (it is 50 %)</li> <li>in 3 photos: 1 (it is 10 %)</li> <li>in 2 photos: 2 (it is 20 %)</li> <li>in 1 photo: 1 (it is 10 %)</li> <li>in no photo: 1 (it is 10 %)</li> </ul>			