

# SUMMARY STATISTICS

## EQA round: NF2/21 - Peripheral Blood Smears - Photos

Deadline (EQA round closed): 17.09.2021

Professional supervision: Czech Haematological Society

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

### Photo 1

Object no.1 WBC and other nucleous elements - types of cells	5	Blast	11 %
	>>> 40	Promyelocyte	87 %
	1	Neutrophil segment	2,2 %
WBC - morphology	2	No changes	4,3 %
	2	Hypogranulation/agranulation	4,3 %
	1	Hyposegmentation or pseudo Pelger anomaly	2,2 %
	1	Nucleocytoplasmatic asynchrony	2,2 %
	1	Lymphocytes - atypical forms	2,2 %
	>>> 41	Leukemic promyelocyte	89 %
Object no.2 WBC and other nucleous elements - types of cells	5	Blast	11 %
	>>> 38	Promyelocyte	83 %
	1	Neutrophil segment	2,2 %
	1	Lymphocyte	2,2 %
	1	Promonocyte	2,2 %
WBC - morphology	2	Hypogranulation/agranulation	4,3 %
	1	Hyposegmentation or pseudo Pelger anomaly	2,2 %
	> 15	Auer rods	33 %
	1	Nucleocytoplasmatic asynchrony	2,2 %
	1	Granules (pseudo) Chediak-Higashi	2,2 %
	1	Cytoplasmatic fragments	2,2 %
	1	Lymphocytes - reactive forms	2,2 %
	1	Lymphocytes - atypical forms	2,2 %
	>>> 38	Leukemic promyelocyte	83 %
RBC - morphology	2	No changes	4,3 %
	6	Normocytosis	13 %
	1	Macrocytosis	2,2 %
	>>> 20	Anisocytosis	43 %
	1	Poikilocytosis	2,2 %
	9	Spherocytes	20 %
	1	Stomatocytes	2,2 %
	> 22	Dacryocytes	48 %
	>>> 37	Schistocytes (and other fragmentocytes)	80 %
	> 7	Hypochromia	15 %
	2	Cabot rings	4,3 %
	2	Rouleaux formation	4,3 %
	1	RBC agglutination	2,2 %
	4	Anisochromia	8,7 %
	3	Knizocytes	6,5 %
	>>> 30	Ovalocytes	65 %
Platelets - morphology	9	No changes	20 %
	8	Anisocytosis	17 %
	>>> 37	Platelets hypo-/agranulation	80 %

### Photo 2

Object no.1 WBC and other nucleous elements - types of cells	1	Blast	2,2 %
	1	Promyelocyte	2,2 %
	1	Neutrophil myelocyte	2,2 %
	>>> 43	Lymphocyte	93 %
WBC - morphology	3	No changes	6,5 %
	1	Auer rods	2,2 %
	7	Vacuolisation	15 %

**Photo 2**

Object no.1 WBC - morphology	>>>	17	LGL/big lymphocytes	37 %
	>	24	Lymphocytes - reactive forms	52 %
		3	Lymphocytes - atypical forms	6,5 %
		1	Leukemic promyelocyte	2,2 %
Object no.2 WBC and other nucleous elements - types of cells	>>>	45	Monocyte	98 %
		1	Lymphocyte	2,2 %
WBC - morphology	>>>	35	No changes	76 %
	>	7	Atypical/reactive monocytes	15 %
		4	Vacuolisation	8,7 %
		1	Lymphocytes - reactive forms	2,2 %
	RBC - morphology		1	No changes
		6	Normocytosis	13 %
	>	11	Macrocytosis	24 %
	>	13	Anisocytosis	28 %
		6	Poikilocytosis	13 %
	>	25	Spherocytes	54 %
	>	16	Dacryocytes	35 %
	>>>	28	Schistocytes (and other fragmentocytes)	61 %
		4	Polychromasia	8,7 %
		2	Howell-Jolly bodies	4,3 %
		2	Pappenheimer bodies	4,3 %
	>	4	Anisochromia	8,7 %
	>	15	Ovalocytes	33 %

**Photo 3**

Object no.1 WBC and other nucleous elements - types of cells		13	Monocyte	28 %	
	>>>	32	Lymphocyte	70 %	
WBC - morphology		1	No changes	2,2 %	
		10	Atypical/reactive monocytes	22 %	
		5	Vacuolisation	11 %	
	>>>	32	Lymphocytes - reactive forms	70 %	
		1	Lymphocytes - atypical forms	2,2 %	
RBC - morphology		4	Normocytosis	8,7 %	
		12	Microcytosis	26 %	
		1	Macrocytosis	2,2 %	
		9	Anisocytosis	20 %	
		2	Poikilocytosis	4,3 %	
		1	Eliptocytes	2,2 %	
		>	22	Spherocytes	48 %
		>>>	43	Stomatocytes	93 %
		>	19	Dacryocytes	41 %
			1	Acanthocytes	2,2 %
			3	Schistocytes (and other fragmentocytes)	6,5 %
		>>>	30	Hypochromia	65 %
			7	Howell-Jolly bodies	15 %
		>>>	30	Rouleaux formation	65 %
			5	Pappenheimer bodies	11 %
			2	RBC agglutination	4,3 %
		3	Anisochromia	6,5 %	
		4	Knizocytes	8,7 %	
	>	14	Ovalocytes	30 %	
Platelets - morphology	>>>	26	No changes	57 %	
	>	19	Small platelets	41 %	
		1	Anisocytosis	2,2 %	

**Photo 4**

Object no.1 WBC and other nucleous elements - types of cells	>>>	8	Blast	17 %
		6	Promyelocyte	13 %
		12	Neutrophil myelocyte	26 %
		11	Monocyte	24 %
		3	Lymphocyte	6,5 %
WBC - morphology	>	5	Promonocyte	11 %
		11	No changes	24 %
		7	Hypogranulation/agranulation	15 %
	>	11	Atypical/reactive monocytes	24 %

## Photo 4

Object no.1 WBC - morphology	1	Nucleocytoplasmatic asynchrony	2,2 %
	3	Lymphocytes - atypical forms	6,5 %
	3	Leukemic promyelocyte	6,5 %
RBC - morphology	2	Normocytosis	4,3 %
	3	Macrocytosis	6,5 %
	> 22	Anisocytosis	48 %
	5	Poikilocytosis	11 %
	8	Spherocytes	17 %
	>>> 46	Stomatocytes	100 %
	1	Drepanocytes	2,2 %
	>>> 41	Dacryocytes	89 %
	5	Target cells	11 %
	> 12	Schistocytes (and other fragmentocytes)	26 %
	1	Polychromasia	2,2 %
	>>> 19	Hypochromia	41 %
	1	Pappenheimer bodies	2,2 %
	1	RBC agglutination	2,2 %
	3	Anisochromia	6,5 %
>>> 40	Knizocytes	87 %	
> 7	Ovalocytes	15 %	
Platelets - morphology	> 7	No changes	15 %
	4	Large platelets	8,7 %
	>>> 39	Anisocytosis	85 %

## Evaluation of the results - scoring system

NF2/21

	Photo 1	Photo 2	Photo 3	Photo 4
<b>Maximal achievable score:</b>	<b>40</b>	<b>25</b>	<b>30</b>	<b>30</b>
Successful participants (success 60 % and more):	33 (it is 72 %)	31 (it is 67 %)	32 (it is 70 %)	33 (it is 72 %)
Minimal success in this round:	-15,0 %	4,0 %	-3,3 %	26,7 %
Maximal success in this round:	100,0 %	100,0 %	100,0 %	96,7 %
<b>Number of participants: 46</b>				
<b>Number of the participants that succeeded:</b>	in all 4 photos:	14 (it is 30 %)		
	in 3 photos:	15 (it is 33 %)		
	in 2 photos:	13 (it is 28 %)		
	in 1 photo:	2 (it is 4 %)		
	in no photo:	2 (it is 4 %)		