

## EQA round: NF2/24 - Peripheral Blood Smears - Photos

Deadline: 13.9.2024

Setup: all data

AV = assigned value

N<sub>tot</sub> = total number of the resultsN<sub>eva</sub> = number of the results assessed

CVE = consensus of the experts

N<sub>rel</sub> = relative number of the resultsN<sub>suc</sub> = number of successful results

&gt;&gt;&gt; ... expected result

S<sub>rel</sub> = relative success

&gt; ... acceptable result

± ... result not assessed

Sample Test Group	Frequency of the results				Success		
	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]

## Photo 1

## (821) Object no. 1: type of cell

All results			1	2,3	Neutrophil segment			
	CVE >>>	42	98		Basophiles			

## (822) Object no. 1: morphology

All results			2	4,7	Not specified			
	CVE >>>	31	72		No changes			
			2	4,7	Hypergranulation/toxic granulation			
			1	2,3	Hypersegmented granulocytes			
	>	8	19		Vacuolisation			

## (823) Object no. 2: type of cell

All results	CVE >>>	43	100		Neutrophil segment			
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## (824) Object no. 2: morphology

All results			2	4,7	No changes			
			1	2,3	Hypogranulation/agranulation			
			2	4,7	Hypergranulation/toxic granulation			
			2	4,7	Hypersegmented granulocytes			
			1	2,3	Döhle bodies			
	CVE >>>	41	95		Vacuolisation			

## (841) RBC - morphology

All results	>	21	49		Anisocytosis			
		4	9,3		Macrocytosis			
		5	12		Normocytosis			
		1	2,3		Poikilocytosis			
		1	2,3		Anisochromia			
		2	4,7		Hypochromia			
		4	9,3		Acanthocytes			
		1	2,3		Dacryocytes			
		2	4,7		Echinocytes			
	>	21	49		Ovalocytes			
	>	9	21		Knizocytes			
	>	11	26		Spherocytes			
		2	4,7		Schistocytes (and other fragmentocytes)			
	CVE >>>	43	100		Stomatocytes			
		3	7		Target cells			
		2	4,7		Rouleaux formation			

## (842) Platelets - morphology

All results	CVE >>>	41	95		Anisocytosis			
	>	9	21		Platelet aggregates			
	CVE >>>	36	84		Platelets hypo-/agranulation			
	CVE >>>	27	63		Large platelets			
		1	2,3		Small platelets			
		1	2,3		Platelet satellitism			

## (835) Overall assessment (score)

		43				43	43	100
Maximum score achievable:	40 points	Criterion (60 % out of the maximum):		24 points				
Minimum score achieved:	25 points (62,5 %)							
Maximum score achieved:	40 points (100 %)							

All results	>>>	43	100		Satisfactory result			
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## Photo 2

## (821) Object no. 1: type of cell

All results	>	11	26		Neutrophil bar			
	CVE >>>	32	74		Neutrophil segment			

## (822) Object no. 1: morphology

All results			7	16	No changes			
	CVE >>>	24	56		Hypogranulation/agranulation			
	>	25	58		Vacuolisation			

## (823) Object no. 2: type of cell

All results	CVE >>>	42	98		Blast			
		1	2,3		Neutrophil metamyelocyte			

## (824) Object no. 2: morphology

All results			1	2,3	No changes			
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Setup: all data

Sample Test Group	AV	N <sub>tot</sub>	Frequency of the results		Success		
			N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
	CVE >>>	42	98	Auer rods			
		1	2,3	Granules (pseudo) Chediak-Higashi			
<b>(841) RBC - morphology</b>							
All results	CVE >>>	35	81	Anisocytosis			
		2	4,7	Macrocytosis			
	>	13	30	Poikilocytosis			
	>	6	14	Anisochromia			
		1	2,3	Polychromasia			
		2	4,7	Acanthocytes			
	CVE >>>	36	84	Dacryocytes			
		2	4,7	Drepanocytes			
		4	9,3	Echinocytes			
	CVE >>>	38	88	Eliptocytes			
	CVE >>>	37	86	Ovalocytes			
	>	6	14	Knizocytes			
	>	29	67	Spherocytes			
	CVE >>>	38	88	Schistocytes (and other fragmentocytes)			
		5	12	Stomatocytes			
		2	4,7	Howell-Jolly bodies			
		4	9,3	Rouleaux formation			
<b>(842) Platelets - morphology</b>							
All results	CVE >>>	41	95	No changes			
		2	4,7	Small platelets			
<b>(835) Overall assessment (score)</b>							
		43			43	40	93
Maximum score achievable: 50 points		Criterion (60 % out of the maximum): 30 points					
Minimum score achieved: 10 points (20 %)							
Maximum score achieved: 50 points (100 %)							
All results		3	7	Unacceptable result			
	>>>	40	93	Satisfactory result			

## Photo 3

## (821) Object no. 1: type of cell

All results	CVE >>>	43	100	Eosinophil segment
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## (822) Object no. 1: morphology

All results		1	2,3	Not specified
	CVE >>>	37	86	No changes
		2	4,7	Hypogranulation/agranulation
		2	4,7	Hypossegmentation or pseudo Pelger anomaly
		1	2,3	Döhle bodies

## (823) Object no. 2: type of cell

All results		3	7	Blast
		1	2,3	Lymphocyte
	CVE >>>	38	88	Bare nuclei, smudge cell
		1	2,3	Basophile - immature form

## (824) Object no. 2: morphology

All results	>	34	79	Not specified
	>	8	19	No changes
		1	2,3	Lymphocytes - atypical forms

## (841) RBC - morphology

All results		1	2,3	No changes
	>	10	23	Anisocytosis
		6	14	Normocytosis
	CVE >>>	14	33	Hypochromia
	>	25	58	Dacryocytes
	>	31	72	Ovalocytes
	>	15	35	Knizocytes
		2	4,7	Spherocytes
	>	11	26	Schistocytes (and other fragmentocytes)
	>	41	95	Stomatocytes
		1	2,3	Target cells
	>	5	12	Howell-Jolly bodies
		1	2,3	Malaric plasmodia
	>	6	14	Pappenheimer bodies
		1	2,3	RBC agglutination
	>	14	33	Rouleaux formation

## (842) Platelets - morphology

All results		11	26	No changes
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Setup: all data

Sample Test Group	Frequency of the results				Success		
	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
		2	4,7	Anisocytosis			
	>	12	28	Megakaryocytic nucleus fragments			
	>	12	28	Platelet aggregates			
	CVE >>>	17	40	Platelets hypo-/agranulation			
	CVE >>>	13	30	Small platelets			
<b>(835) Overall assessment (score)</b>		43			43	30	70
Maximum score achievable: 30 points				Criterion (60 % out of the maximum): 18 points			
Minimum score achieved: 2 points (6,7 %)							
Maximum score achieved: 30 points (100 %)							
All results		13	30	Unacceptable result			
	>>>	30	70	Satisfactory result			

## Photo 4

## (821) Object no. 1: type of cell

All results	CVE >>>	43	100	Neutrophil segment
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## (822) Object no. 1: morphology

All results		1	2,3	No changes
	CVE >>>	16	37	Hypogranulation/agranulation
	CVE >>>	40	93	Hyposegmentation or pseudo Pelger anomaly
		1	2,3	Hypergranulation/toxic granulation
		1	2,3	Vacuolisation

## (841) RBC - morphology

All results	CVE >>>	41	95	Anisocytosis
		7	16	Microcytosis
		8	19	Macrocytosis
		8	19	Poikilocytosis
	>	5	12	Anisochromia
	>	10	23	Polychromasia
	>	23	53	Dacryocytes
		1	2,3	Ovalocytes
	CVE >>>	37	86	Spherocytes
	CVE >>>	37	86	Schistocytes (and other fragmentocytes)
	>	17	40	Stomatocytes
	CVE >>>	32	74	Basophilic stippling
	>	13	30	Howell-Jolly bodies
		2	4,7	Malaric plasmodia
	>	24	56	Pappenheimer bodies

## (835) Overall assessment (score)

		43			43	36	84
Maximum score achievable: 35 points				Criterion (60 % out of the maximum): 21 points			
Minimum score achieved: 14 points (40 %)							
Maximum score achieved: 35 points (100 %)							
All results		7	16	Unacceptable result			
	>>>	36	84	Satisfactory result			

## Summary for all samples

<b>(835) Overall assessment (score)</b>		43			43	37	86
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