Summary statistics - qualitative results

EQA round: DIF3/23 - Peripheral Blood Morphology Evaluation   Deadline: 15.9.2023

Setup: Slovakia

AV = assigned value	N_{tot} = total number of the results	N_{eva} = number of the results assessed
CVE = consensus of the experts	N_{rel} = relative number of the results	N_{suc} = number of successful results
>>> ... expected result		S_{rel} = relative success
> ... acceptable result		
± ... result not assessed		

Sample Test Group	AV	N_{tot}	N_{rel} [%]	Frequency of the results — Result	Success N_{eva}	N_{suc}	S_{rel} [%]

Sample A

(921) WBC - morphology

All results	>	2	13	No changes
		1	6,3	Giant bands and metamyelocytes
		4	25	Agranulation
		1	6,3	Neutrophil hypersegmentation
		4	25	Hyposegmentation / asegmentation / pelgeroid
		6	38	Atypical/reactive/pathological monocytes/promono.
		5	31	Denuded nuclei/cells, nuclear shadows / smudge cells
	>	5	31	Vacuolisation
		2	13	Lymphocytes - reactive forms
		3	19	Lymphocytes - atypical forms (except "hairy")
		1	6,3	Nucleus fragments of neutrophiles

(922) WBC - count changes (relative)

All results		1	6,3	Normal count
	CVE >>>	12	75	Neutrophilia
		1	6,3	Lymphocytosis
	CVE >>>	14	88	Lymphocytopenia
	>	4	25	Monocytosis
		1	6,3	Monocytopenia
		2	13	Left shift

(923) RBC - morphology

All results		3	19	Normocytosis
	CVE >>>	15	94	Anisocytosis
	CVE >>>	11	69	Poikilocytosis
	CVE >>>	12	75	Eliptocytes, ovalocytes
		1	6,3	Spherocytes
		1	6,3	Stomatocytes
	CVE >>>	12	75	Dacryocytes
	CVE >>>	12	75	Acanthocytes
	CVE >>>	3	19	Echinocytes
	CVE >>>	10	63	Schistocytes (and other fragmentocytes)
	>	3	19	Polychromasia
	>	6	38	Hypochromia
		3	19	Basophilic stippling
		1	6,3	Rouleaux formation

(924) Platelets - morphology

All results		4	25	No changes
	CVE >>>	11	69	Large platelets
		2	13	Small platelets
		1	6,3	Platelet aggregates

(925) Clinical recommendation - smear assessment

All results	CVE >>>	15	94	Blood smear is pathological
		1	6,3	Blood smear within physiological limits or with reactive changes

(926) Clinical recommendation - examination

All results	CVE >>>	15	94	An examination by the specialist/haematologist is recommended
		1	6,3	An examination by the specialist/haematologist is not necessary

(927) Estimation of diagnosis

All results	>	5	31	Anemia: Without closer determination
	>	5	31	Anemia: Normocytosis
		2	13	Anemia: Hypochromia
	CVE >>>	9	56	Myelodysplastic syndrome: Myelodysplastic syndrome
		1	6,3	Chronic myeloproliferative disease: CML (chronic myelogenous leukaemia)
		2	13	Chronic myeloproliferative disease: Myelofibrosis
		2	13	Other: Other disease

(928) How do you rate the technical quality of the smear?

		16			0
All results	±	15	94	Acceptable	
	±	1	6,3	Not acceptable (give a reason)	

Summary statistics - qualitative results

EQA round: DIF3/23 - Peripheral Blood Morphology Evaluation Deadline: 15.9.2023
Setup: Slovakia

Sample Test Group	AV	N_{tot}	N_{rel} [%]	Frequency of the results Result			Success N_{eva}	N_{suc}	S_{rel} [%]
(929) **How do you rate the staining of the smear?**		16					0		
All results	±	16	100	Acceptable					
(939) **Overall assessment**		16					16	14	88

Maximum score achievable: 111 points	Criterion (60 % out of the maximum): 67 points
Minimum score achieved: 39 points (35,1 %)	
Maximum score achieved: 110 points (99,1 %)	

All results		2	13	Unacceptable result		
	>>>	14	88	Correct result		

Sample B

(921) **WBC - morphology**

All results		2	13	No changes
		1	6,3	Agranulation
	>	6	38	Neutrophil hypersegmentation
		1	6,3	Atypical/reactive/pathological monocytes/promono.
	CVE >>>	12	75	Denuded nuclei/cells, nuclear shadows / smudge cells
	>	4	25	Vacuolisation
		4	25	LGL/big lymphocytes
		6	38	Lymphocytes - reactive forms
	CVE >>>	4	25	Lymphocytes - atypical forms (except "hairy")

(922) **WBC - count changes (relative)**

All results	CVE >>>	13	81	Normal count
		2	13	Basophilia
		1	6,3	Monocytosis

(923) **RBC - morphology**

All results		5	31	No changes
	CVE >>>	11	69	Normocytosis
		1	6,3	Anisocytosis
		1	6,3	Spherocytes
		4	25	Stomatocytes
	CVE >>>	6	38	Hypochromia
		1	6,3	Rouleaux formation

(924) **Platelets - morphology**

All results		2	13	No changes
	>	4	25	Large platelets
	CVE >>>	14	88	Platelet aggregates
		2	13	Platelets hypogranulation
		1	6,3	Megakaryocytic nucleus fragments

(925) **Clinical recommendation - smear assessment**

All results	CVE >>>	6	38	Blood smear is pathological
		10	63	Blood smear within physiological limits or with reactive changes

(926) **Clinical recommendation - examination**

All results	CVE >>>	9	56	An examination by the specialist/haematologist is recommended
		7	44	An examination by the specialist/haematologist is not necessary

(927) **Estimation of diagnosis**

All results	CVE >>>	2	13	Mature lymphocytic cells neoplasms: Exact determination impossible
	CVE >>>	3	19	Mature lymphocytic cells neoplasms: CLL (chronic lymphocytic leukaemia)
		4	25	Platelets disorders: Thrombocytopenia
		4	25	Platelets disorders: Other
		10	63	Other: Other reactive changes
		2	13	Other: Other disease

(928) **How do you rate the technical quality of the smear?**

		16				0	
All results	±	15	94	Acceptable			
	±	1	6,3	Not acceptable (give a reason)			

(929) **How do you rate the staining of the smear?**

		16				0	
All results	±	16	100	Acceptable			

Summary statistics - qualitative results

EQA round: DIF3/23 - Peripheral Blood Morphology Evaluation
Setup: Slovakia

Deadline: 15.9.2023

Sample Test Group	AV	N_{tot}	N_{rel} [%]	Result	N_{eva}	N_{suc}	S_{rel} [%]
(939) Overall assessment		16			16	12	75
Maximum score achievable: 87 points				Criterion (60 % out of the maximum): 53 points			
Minimum score achieved: 35 points (40,2 %)							
Maximum score achieved: 79 points (90,8 %)							
All results		4	25	Unacceptable result			
	>>>	12	75	Correct result			

Summary for all samples

	AV	N_{tot}			N_{eva}	N_{suc}	S_{rel}
(939) Overall assessment		16			16	11	69