Summary statistics - qualitative results

EQA round: DIF2/24 - Peripheral Blood Morphology Evaluation Deadline: 24.5.2024

Setup: Slovakia

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

N_{eva} = number of the results assessed	
N_{suc} = number of successful results	
S_{rel} = relative success	

Sample Test Group	AV	N_{tot}	N_{rel} [%]	Result	N_{eva}	N_{suc}	S_{rel} [%]

Sample A

(921) **WBC - morphology**

All results	AV	N_{tot}	N_{rel} [%]	Result
		1	6,7	No changes
	>	3	20	Agranulation
		5	33	Hyposegmentation / asegmentation / pelgeroid
		1	6,7	Döhle bodies
	CVE >>>	13	87	Denuded nuclei/cells, nuclear shadows / smudge cells
		1	6,7	Cytoplasmatic fragments
	>	6	40	Vacuolisation
	>	4	27	Lymphocytes - atypical forms (except "hairy")

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

All results	AV	N_{tot}	N_{rel} [%]	Result
	CVE >>>	14	93	Neutropenia
	>	4	27	Lymphocytosis
	CVE >>>	9	60	Lymphocytopenia
		1	6,7	Eosinophilia
	CVE >>>	11	73	Monocytopenia
		5	33	Left shift

(923) **RBC - morphology**

All results	AV	N_{tot}	N_{rel} [%]	Result
		5	33	Normocytosis
	CVE >>>	12	80	Anisocytosis
	>	5	33	Spherocytes
		1	6,7	Stomatocytes
	>	5	33	Dacryocytes
		1	6,7	Target cells
		1	6,7	Basophilic stippling
		2	13	Howell-Jolly bodies

(924) **Platelets - morphology**

All results	AV	N_{tot}	N_{rel} [%]	Result
		1	6,7	Not specified
	CVE >>>	12	80	No changes
		2	13	Small platelets
	>	2	13	Platelets hypogranulation

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

All results	AV	N_{tot}	N_{rel} [%]	Result
	CVE >>>	15	100	Blood smear is pathological

(926) **Clinical recommendation - examination**

All results	AV	N_{tot}	N_{rel} [%]	Result
	CVE >>>	15	100	An examination by the specialist/haematologist is recommended

(927) **Estimation of diagnosis**

All results	AV	N_{tot}	N_{rel} [%]	Result
		4	27	Anemia: Normocytosis
	CVE >>>	8	53	Acute leukemia: Without closer determination
	>	3	20	Acute leukemia: ALL (acute lymphoblastic leukemia)
	>	2	13	Acute leukemia: AML (acute myeloid leukemia)
		1	6,7	Myelodysplastic syndrome: Myelodysplastic syndrome
		1	6,7	Mature lymphocytic cells neoplasms: Exact determination impossible
		3	20	Platelets disorders: Thrombocytopenia

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

	AV	N_{tot}	N_{rel} [%]	Result	N_{eva}
		15			0
All results	±	15	100	Acceptable	

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

	AV	N_{tot}	N_{rel} [%]	Result	N_{eva}
		15			0
All results	±	15	100	Acceptable	

(939) **Overall assessment (score)**

	AV	N_{tot}	N_{rel} [%]	Result	N_{eva}	N_{suc}	S_{rel} [%]
		15			15	15	100

Maximum score achievable: 87 points Criterion (60 % out of the maximum): 53 points
Minimum score achieved: 54 points (62,1 %)
Maximum score achieved: 86 points (98,9 %)

All results	AV	N_{tot}	N_{rel} [%]	Result
	>>>	15	100	Satisfactory result

Sample B

(921) **WBC - morphology**

All results	AV	N_{tot}	N_{rel} [%]	Result
		1	6,7	Not specified
	>	2	13	No changes

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Setup: Slovakia

Sample Test Group		AV	N_{tot}	N_{rel} [%]	Frequency of the results Result	N_{eva}	N_{suc}	S_{rel} [%]
		>	2	13	Hypergranulation/toxic granulation			
		>	1	6,7	Agranulation			
			2	13	Neutrophil hypersegmentation			
			1	6,7	Hyposegmentation / asegmentation / pelgeroid			
			1	6,7	Denuded nuclei/cells, nuclear shadows / smudge cells			
		>	7	47	Vacuolisation			
			1	6,7	Lymphocytes - reactive forms			
			1	6,7	Lymphocytes - atypical forms (except "hairy")			
(922) WBC - count changes (relative)								
All results		CVE >>>	12	80	Neutrophilia			
		CVE >>>	12	80	Lymphocytopenia			
		CVE >>>	9	60	Basophilia			
			4	27	Monocytopenia			
		CVE >>>	14	93	Left shift			
(923) RBC - morphology								
All results			2	13	Normocytosis			
			1	6,7	Macrocytosis			
		CVE >>>	13	87	Anisocytosis			
		>	6	40	Poikilocytosis			
		CVE >>>	11	73	Eliptocytes, ovalocytes			
		>	5	33	Spherocytes			
		>	3	20	Stomatocytes			
		CVE >>>	15	100	Dacryocytes			
		CVE >>>	5	33	Schistocytes (and other fragmentocytes)			
		CVE >>>	12	80	Polychromasia			
		CVE >>>	7	47	Basophilic stippling			
			1	6,7	Howell-Jolly bodies			
			2	13	Rouleaux formation			
			1	6,7	Pappenheimer bodies			
(924) Platelets - morphology								
All results			2	13	No changes			
		CVE >>>	13	87	Large platelets			
		>	2	13	Platelets hypogranulation			
		>	1	6,7	Megakaryocytic nucleus fragments			
(925) Clinical recommendation - smear assessment								
All results		CVE >>>	15	100	Blood smear is pathological			
(926) Clinical recommendation - examination								
All results		CVE >>>	15	100	An examination by the specialist/haematologist is recommended			
(927) Estimation of diagnosis								
All results			6	40	Anemia: Normocytosis			
		CVE >>>	15	100	Chronic myeloproliferative disease: Myelofibrosis			
(928) How do you rate the technical quality of the smear?			15			0		
All results		±	15	100	Acceptable			
(929) How do you rate the staining of the smear?			15			0		
All results		±	15	100	Acceptable			
(939) Overall assessment (score)			15			15	14	93
Maximum score achievable: 117 points Criterion (60 % out of the maximum): 71 points Minimum score achieved: 47 points (40,2 %) Maximum score achieved: 117 points (100 %)								
All results			1	6,7	Unacceptable result			
		>>>	14	93	Satisfactory result			

Summary for all samples

(939) **Overall assessment (score)**			15			15	14	93