Summary statistics - qualitative results

EQA round: DIF4/23 - Peripheral Blood Morphology Evaluation

Deadline: 27.10.2023

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

Sample A

(921) WBC - morphology

		N_{tot}	N_{rel}	Result
All results		1	5	Giant bands and metamyelocytes
		3	15	Agranulation
	CVE >>>	19	95	Neutrophil hypersegmentation
		1	5	Döhle bodies
		1	5	Atypical/reactive/pathological monocytes/promono.
		5	25	Denuded nuclei/cells, nuclear shadows / smudge cells
		1	5	Cytoplasmatic fragments
	CVE >>>	10	50	Vacuolisation
		1	5	LGL/big lymphocytes
		5	25	Lymphocytes - reactive forms

(922) WBC - count changes (relative)

		N_{tot}	N_{rel}	Result
All results	CVE >>>	19	95	Neutrophilia
	CVE >>>	16	80	Lymphocytopenia
	CVE >>>	13	65	Basophilia
	>	1	5	Monocytopenia
	CVE >>>	18	90	Left shift

(923) RBC - morphology

		N_{tot}	N_{rel}	Result
All results	CVE >>>	15	75	Macrocytosis
	CVE >>>	18	90	Anisocytosis
		2	10	Poikilocytosis
	>	4	20	Eliptocytes, ovalocytes
		4	20	Spherocytes
	CVE >>>	18	90	Stomatocytes
	>	11	55	Dacryocytes
		1	5	Schistocytes (and other fragmentocytes)
	CVE >>>	9	45	Polychromasia
	>	5	25	Basophilic stippling
		2	10	Howell-Jolly bodies

(924) Platelets - morphology

		N_{tot}	N_{rel}	Result
All results		2	10	No changes
	CVE >>>	18	90	Large platelets
	>	7	35	Platelets hypogranulation
		1	5	Megakaryocytic nucleus fragments

(925) Clinical recommendation - smear assessment

		N_{tot}	N_{rel}	Result
All results	CVE >>>	20	100	Blood smear is pathological

(926) Clinical recommendation - examination

		N_{tot}	N_{rel}	Result
All results	CVE >>>	20	100	An examination by the specialist/haematologist is recommended

(927) Estimation of diagnosis

		N_{tot}	N_{rel}	Result
All results		3	15	Anemia: Macrocytosis
		1	5	Myelodysplastic syndrome: Myelodysplastic syndrome
	CVE >>>	10	50	Chronic myeloproliferative disease: Exact determination impossible
		2	10	Chronic myeloproliferative disease: CML (chronic myelogenous leukaemia)
		3	15	Chronic myeloproliferative disease: Polycythemia vera
	>	8	40	Chronic myeloproliferative disease: Myelofibrosis
		1	5	Platelets disorders: Other

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

		N_{tot}	N_{rel}	Result		N_{eva}
		20				0
All results	±	20	100	Acceptable		

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

		N_{tot}	N_{rel}	Result		N_{eva}
		20				0
All results	±	20	100	Acceptable		

(939) Overall assessment

		N_{tot}	N_{rel}	Result	N_{eva}	N_{suc}	S_{rel}
		20			20	19	95

Maximum score achievable: 117 points	Criterion (60 % out of the maximum): 71 points
Minimum score achieved: 70 points (59,8 %)	
Maximum score achieved: 116 points (99,1 %)	

		N_{tot}	N_{rel}	Result
All results		1	5	Unacceptable result
	>>>	19	95	Correct result

Summary statistics - qualitative results

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Setup: Slovakia

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

Sample B

(921) **WBC - morphology**

All results	>	8	40	No changes
		1	5	Agranulation
		2	10	Neutrophil hypersegmentation
		6	30	Denuded nuclei/cells, nuclear shadows / smudge cells
	>	7	35	Vacuolisation
		1	5	LGL/big lymphocytes
	>	9	45	Lymphocytes - reactive forms
		1	5	"Hairy" lymphocytes
		2	10	Lymphocytes - atypical forms (except "hairy")

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

All results		1	5	Not specified
	CVE >>>	18	90	Normal count
		1	5	Lymphocytosis

(923) **RBC - morphology**

All results	CVE >>>	14	70	No changes
		12	60	Normocytosis
		2	10	Eliptocytes, ovalocytes
		1	5	Stomatocytes
		1	5	Dacryocytes
		1	5	Target cells
		1	5	Schistocytes (and other fragmentocytes)
		1	5	Howell-Jolly bodies
		1	5	Rouleaux formation

(924) **Platelets - morphology**

All results		1	5	Not specified
	CVE >>>	12	60	No changes
	>	8	40	Large platelets
		1	5	Platelets hypogranulation

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

All results		1	5	Not specified
		2	10	Blood smear is pathological
	CVE >>>	17	85	Blood smear within physiological limits or with reactive changes

(926) **Clinical recommendation - examination**

All results		2	10	An examination by the specialist/haematologist is recommended
	CVE >>>	18	90	An examination by the specialist/haematologist is not necessary

(927) **Estimation of diagnosis**

All results	CVE >>>	3	15	Not specified
		2	10	Mature lymphocytic cells neoplasms: Exact determination impossible
		1	5	Mature lymphocytic cells neoplasms: PLL (prolymphocytic leukaemia)
		9	45	Other: Other reactive changes
		6	30	Other: Other disease

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

		20				0		
All results	±	19	95	Acceptable				
	±	1	5	Not acceptable (give a reason)				

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

		20				0		
All results	±	20	100	Acceptable				

(939) **Overall assessment**

		20				20	18	90

Maximum score achievable: 69 points   Criterion (60 % out of the maximum): 42 points
Minimum score achieved: 36 points (52,2 %)
Maximum score achieved: 69 points (100 %)

All results		2	10	Unacceptable result
	>>>		18	90	Correct result

Summary for all samples

(939) **Overall assessment**		20				20	17	85