

Setup: Slovakia

AV = assigned value

CVE = consensus of the experts

>>> ... expected result

> ... acceptable result

± ... result not assessed

N_{tot} = total number of the resultsN_{rel} = relative number of the resultsN_{eva} = number of the results assessedN_{suc} = number of successful resultsS_{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**

| | | | | | | | |
|-------------|---------|----|----|--|--|--|--|
| All results | | 2 | 10 | Not specified | | | |
| | | 1 | 5 | No changes | | | |
| | | 1 | 5 | Hypergranulation/toxic granulation | | | |
| | | 2 | 10 | Agranulation | | | |
| | | 2 | 10 | Neutrophil hypersegmentation | | | |
| | | 1 | 5 | Hyposegmentation / asegmentation / pelgeroid | | | |
| | > | 3 | 15 | Atypical/reactive/pathological monocytes/promono. | | | |
| | | 6 | 30 | Denuded nuclei/cells, nuclear shadows / smudge cells | | | |
| | | 1 | 5 | Cytoplasmatic fragments | | | |
| | > | 3 | 15 | Vacuolisation | | | |
| | CVE >>> | 7 | 35 | LGL/big lymphocytes | | | |
| | CVE >>> | 11 | 55 | Lymphocytes - reactive forms | | | |
| | | 1 | 5 | Lymphocytes - atypical forms (except "hairy") | | | |

(922) WBC - count changes (relative)

| | | | | | | | |
|-------------|---------|----|----|---------------|--|--|--|
| All results | | 4 | 20 | Normal count | | | |
| | CVE >>> | 12 | 60 | Neutropenia | | | |
| | CVE >>> | 7 | 35 | Lymphocytosis | | | |
| | | 1 | 5 | Eosinophilia | | | |
| | > | 7 | 35 | Basophilia | | | |
| | > | 10 | 50 | Monocytosis | | | |
| | | 1 | 5 | Left shift | | | |

(923) RBC - morphology

| | | | | | | | |
|-------------|---------|----|----|-------------------------|--|--|--|
| All results | | 2 | 10 | No changes | | | |
| | CVE >>> | 14 | 70 | Normocytosis | | | |
| | | 2 | 10 | Anisocytosis | | | |
| | | 1 | 5 | Poikilocytosis | | | |
| | CVE >>> | 6 | 30 | Eliptocytes, ovalocytes | | | |
| | | 2 | 10 | Spherocytes | | | |
| | > | 10 | 50 | Stomatocytes | | | |
| | | 1 | 5 | Drepanocytes | | | |
| | | 3 | 15 | Dacryocytes | | | |
| | CVE >>> | 14 | 70 | Target cells | | | |
| | | 1 | 5 | Polychromasia | | | |
| | > | 4 | 20 | Hypochromia | | | |
| | | 1 | 5 | Howell-Jolly bodies | | | |
| | | 2 | 10 | Rouleaux formation | | | |

(924) Platelets - morphology

| | | | | | | | |
|-------------|---------|----|-----|----------------------|--|--|--|
| All results | CVE >>> | 8 | 40 | Large platelets | | | |
| | | 2 | 10 | Small platelets | | | |
| | CVE >>> | 3 | 15 | Platelet aggregates | | | |
| | CVE >>> | 20 | 100 | Platelet satellitism | | | |

(925) Clinical recommendation - smear assessment

| | | | | | | | |
|-------------|---------|----|----|--|--|--|--|
| All results | CVE >>> | 15 | 75 | Blood smear is pathological | | | |
| | > | 5 | 25 | Blood smear within physiological limits or with reactive changes | | | |

(926) Clinical recommendation - examination

| | | | | | | | |
|-------------|---------|----|----|---|--|--|--|
| All results | CVE >>> | 16 | 80 | An examination by the specialist/haematologist is recommended | | | |
| | > | 4 | 20 | An examination by the specialist/haematologist is not necessary | | | |

(927) Estimation of diagnosis

| | | | | | | | |
|-------------|---|----|-----|--|--|--|--|
| All results | | 1 | 5,3 | Physiological finding | | | |
| | | 1 | 5,3 | Anemia: Hypochromia | | | |
| | | 1 | 5,3 | Chronic myeloproliferative disease: Exact determination impossible | | | |
| | | 1 | 5,3 | Mature lymphocytic cells neoplasms: Exact determination impossible | | | |
| | > | 5 | 26 | Platelets disorders: Thrombocytopenia | | | |
| | > | 12 | 63 | Platelets disorders: Other | | | |
| | | 1 | 5,3 | Other: Viral infection incl. inf. mononucleosis | | | |
| | > | 7 | 37 | Other: Other reactive changes | | | |

EQA round: DIF1/24 - Peripheral Blood Morphology Evaluation

Deadline: 15.3.2024

Setup: Slovakia

| Sample Test Group | Frequency of the results | | | | Success | | |
|---|--------------------------|------------------|----------------------|--|------------------|------------------|----------------------|
| | AV | N _{tot} | N _{rel} [%] | Result | N _{eva} | N _{suc} | S _{rel} [%] |
| (928) How do you rate the technical quality of the smear? | > | 1 | 5,3 | Other: Other disease | | | |
| All results | ± | 19 | 100 | Acceptable | | | 0 |
| (929) How do you rate the staining of the smear? | | 19 | | | | | 0 |
| All results | ± | 17 | 89 | Acceptable | | | |
| | ± | 2 | 11 | Not acceptable (give a reason) | | | |
| (939) Overall assessment (score) | | 20 | | | 20 | 10 | 50 |
| Maximum score achievable: 111 points | | | | Criterion (60 % out of the maximum): 67 points | | | |
| Minimum score achieved: 33 points (29,7 %) | | | | | | | |
| Maximum score achieved: 105 points (94,6 %) | | | | | | | |
| All results | | 10 | 50 | Unacceptable result | | | |
| | >>> | 10 | 50 | Satisfactory result | | | |

Sample B

(921) WBC - morphology

| | | | | | | | |
|-------------|---------|---|----|--|--|--|--|
| All results | | 1 | 5 | Not specified | | | |
| | > | 4 | 20 | No changes | | | |
| | | 3 | 15 | Agranulation | | | |
| | | 5 | 25 | Neutrophil hypersegmentation | | | |
| | | 1 | 5 | Döhle bodies | | | |
| | | 1 | 5 | Denuded nuclei/cells, nuclear shadows / smudge cells | | | |
| | > | 2 | 10 | Vacuolisation | | | |
| | | 3 | 15 | LGL/big lymphocytes | | | |
| | CVE >>> | 9 | 45 | Lymphocytes - reactive forms | | | |
| | | 1 | 5 | Lymphocytes - atypical forms (except "hairy") | | | |

(922) WBC - count changes (relative)

| | | | | | | | |
|-------------|---------|----|----|-----------------|--|--|--|
| All results | | 2 | 10 | Not specified | | | |
| | CVE >>> | 12 | 60 | Normal count | | | |
| | | 6 | 30 | Neutrophilia | | | |
| | | 2 | 10 | Lymphocytopenia | | | |
| | | 1 | 5 | Monocytopenia | | | |
| | | 1 | 5 | Left shift | | | |

(923) RBC - morphology

| | | | | | | | |
|-------------|---------|----|----|---|--|--|--|
| All results | | 1 | 5 | Normocytosis | | | |
| | CVE >>> | 15 | 75 | Microcytosis | | | |
| | CVE >>> | 14 | 70 | Anisocytosis | | | |
| | | 4 | 20 | Poikilocytosis | | | |
| | | 3 | 15 | Elipocytes, ovalocytes | | | |
| | | 2 | 10 | Spherocytes | | | |
| | CVE >>> | 16 | 80 | Stomatocytes | | | |
| | | 2 | 10 | Drepanocytes | | | |
| | | 2 | 10 | Dacryocytes | | | |
| | CVE >>> | 15 | 75 | Target cells | | | |
| | | 2 | 10 | Schistocytes (and other fragmentocytes) | | | |
| | CVE >>> | 5 | 25 | Polychromasia | | | |
| | CVE >>> | 17 | 85 | Hypochromia | | | |
| | CVE >>> | 13 | 65 | Basophilic stippling | | | |
| | | 3 | 15 | Howell-Jolly bodies | | | |
| | | 3 | 15 | Rouleaux formation | | | |

(924) Platelets - morphology

| | | | | | | | |
|-------------|---------|----|----|-----------------|--|--|--|
| All results | | 8 | 40 | No changes | | | |
| | CVE >>> | 12 | 60 | Large platelets | | | |
| | | 1 | 5 | Small platelets | | | |

(925) Clinical recommendation - smear assessment

| | | | | | | | |
|-------------|---------|----|----|--|--|--|--|
| All results | CVE >>> | 16 | 80 | Blood smear is pathological | | | |
| | | 4 | 20 | Blood smear within physiological limits or with reactive changes | | | |

(926) Clinical recommendation - examination

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

(927) Estimation of diagnosis

| | | | | | | | |
|-------------|--|---|----|----------------------|--|--|--|
| All results | | 2 | 11 | Anemia: Microcytosis | | | |
|-------------|--|---|----|----------------------|--|--|--|

| Sample Test Group | Frequency of the results | | | Result | Success | | | |
|--|--------------------------|--|-------------------------|--------|--|------------------|-------------------------|----------|
| | AV | N _{tot} | N _{rel} [%] | | N _{eva} | N _{suc} | S _{rel} [%] | |
| | | | 1 | 5,3 | Anemia: Hypochromia | | | |
| | | | 1 | 5,3 | Anemia: Haemolytic | | | |
| | CVE | >>> | 15 | 79 | Anaemia: Thalassemia and other congenital anaemias | | | |
| | | | 3 | 16 | Other: Viral infection incl. inf. mononucleosis | | | |
| | | | 3 | 16 | Other: Other reactive changes | | | |
| | | | 2 | 11 | Other: Other disease | | | |
| (928) How do you rate the technical quality of the smear? | | | 19 | | | | | 0 |
| All results | | ± | 19 | 100 | Acceptable | | | |
| (929) How do you rate the staining of the smear? | | | 19 | | | | | 0 |
| All results | | ± | 18 | 95 | Acceptable | | | |
| | | ± | 1 | 5,3 | Not acceptable (give a reason) | | | |
| (939) Overall assessment (score) | | | 20 | | | | | 20 14 70 |
| Maximum score achievable: 111 points | | Criterion (60 % out of the maximum): 67 points | | | | | | |
| Minimum score achieved: 32 points (28,8 %) | | | | | | | | |
| Maximum score achieved: 105 points (94,6 %) | | | | | | | | |
| All results | | | 6 | 30 | Unacceptable result | | | |
| | | >>> | 14 | 70 | Satisfactory result | | | |

Summary for all samples

| | | | | | | |
|---|----|--|--|----|----|----|
| (939) Overall assessment (score) | 20 | | | 20 | 10 | 50 |
|---|----|--|--|----|----|----|