

EQA round: NF1/25 - Peripheral Blood Smears - Photos

Deadline: 14.3.2025

Setup: all data

AV = assigned value

N_{tot} = total number of the resultsN_{eva} = number of the results assessed

CVE = consensus of the experts

N_{rel} = relative number of the resultsN_{suc} = number of successful results

>>> ... expected result

S_{rel} = relative success

> ... acceptable result

± ... result not assessed

| Sample Test Group | Frequency of the results | | | | Success | | |
|-------------------|--------------------------|------------------|----------------------|--------|------------------|------------------|----------------------|
| | AV | N _{tot} | N _{rel} [%] | Result | N _{eva} | N _{suc} | S _{rel} [%] |

Photo 1

(821) Object no. 1: type of cell

All results CVE >>> 54 100 Lymphocyte

(822) Object no. 1: morphology

All results CVE >>> 21 39 Lymphocytes - atypical forms
> 33 61 Lymphocytes - reactive forms

(823) Object no. 2: type of cell

All results CVE >>> 54 100 Bare nuclei, smudge cell

(824) Object no. 2: morphology

All results CVE >>> 45 83 Not specified
9 17 No changes

(825) Object no. 3: type of cell

All results CVE >>> 54 100 Lymphocyte

(826) Object no. 3: morphology

All results CVE >>> 1 1,9 Not specified
5 9,3 No changes
> 31 57 Lymphocytes - atypical forms
> 17 31 Lymphocytes - reactive forms

(841) RBC - morphology

All results 2 3,7 No changes
7 13 Anisocytosis
4 7,4 Macrocytosis
> 13 24 Normocytosis
2 3,7 Anisochromia
> 8 15 Hypochromia
6 11 Dacryocytes
> 12 22 Ovalocytes
> 13 24 Knizocytes
1 1,9 Spherocytes
3 5,6 Schistocytes (and other fragmentocytes)
CVE >>> 49 91 Stomatocytes
CVE >>> 41 76 Target cells
1 1,9 Howell-Jolly bodies

(842) Platelets - morphology

All results CVE >>> 1 1,9 No changes
CVE >>> 47 87 Anisocytosis
CVE >>> 29 54 Platelets hypo-/agranulation
CVE >>> 53 98 Large platelets

(835) Overall assessment (score)

54 54 50 93

Maximum score achievable: 55 points

Criterion (60 % out of the maximum): 33 points

Minimum score achieved: 12 points (21,8 %)

Maximum score achieved: 55 points (100 %)

All results >>> 4 7,4 Unacceptable result
>>> 50 93 Satisfactory result

Photo 2

(821) Object no. 1: type of cell

All results CVE >>> 54 100 Neutrophil segment

(822) Object no. 1: morphology

All results CVE >>> 1 1,9 Not specified
> 18 33 No changes
> 31 57 Hypergranulation/toxic granulation
8 15 Hypersegmented granulocytes
1 1,9 Döhle bodies
1 1,9 Vacuolisation

(823) Object no. 2: type of cell

All results CVE >>> 54 100 Neutrophil segment

(824) Object no. 2: morphology

All results CVE >>> 2 3,7 Not specified
>>> 41 76 No changes
2 3,7 Hypogranulation/agranulation
8 15 Hypersegmented granulocytes

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Setup: all data

| Sample Test Group | Frequency of the results | | | | Success | | |
|---|--------------------------|--|-------------------------|---|------------------|------------------|-------------------------|
| | AV | N _{tot} | N _{rel} [%] | Result | N _{eva} | N _{suc} | S _{rel} [%] |
| | | 2 | 3,7 | Döhle bodies | | | |
| | | 1 | 1,9 | Vacuolisation | | | |
| (825) Object no. 3: type of cell | | | | | | | |
| All results | | 1 | 1,9 | Promyelocyte | | | |
| | CVE >>> | 35 | 65 | Neutrophil myelocyte | | | |
| | > | 14 | 26 | Neutrophil metamyelocyte | | | |
| | | 4 | 7,4 | Lymphocyte | | | |
| (826) Object no. 3: morphology | | | | | | | |
| All results | | 3 | 5,6 | Not specified | | | |
| | | 18 | 33 | No changes | | | |
| | | 1 | 1,9 | Hypogranulation/agranulation | | | |
| | | 1 | 1,9 | Hypergranulation/toxic granulation | | | |
| | | 1 | 1,9 | Giant bands and metamyelocytes | | | |
| | | 2 | 3,7 | Döhle bodies | | | |
| | | 3 | 5,6 | Lymphocytes - atypical forms | | | |
| | | 1 | 1,9 | Lymphocytes - reactive forms | | | |
| | CVE >>> | 27 | 50 | Vacuolisation | | | |
| | | 2 | 3,7 | Nucleocytoplasmatic asynchrony | | | |
| (841) RBC - morphology | | | | | | | |
| All results | CVE >>> | 52 | 96 | Anisocytosis | | | |
| | | 3 | 5,6 | Microcytosis | | | |
| | | 2 | 3,7 | Macrocytosis | | | |
| | | 2 | 3,7 | Poikilocytosis | | | |
| | | 3 | 5,6 | Hypochromia | | | |
| | | 1 | 1,9 | Acanthocytes | | | |
| | | 1 | 1,9 | Eliptocytes | | | |
| | > | 22 | 41 | Ovalocytes | | | |
| | CVE >>> | 49 | 91 | Knizocytes | | | |
| | | 7 | 13 | Spherocytes | | | |
| | | 3 | 5,6 | Schistocytes (and other fragmentocytes) | | | |
| | > | 42 | 78 | Stomatocytes | | | |
| | CVE >>> | 53 | 98 | Target cells | | | |
| | | 1 | 1,9 | Howell-Jolly bodies | | | |
| (842) Platelets - morphology | | | | | | | |
| All results | CVE >>> | 53 | 98 | Anisocytosis | | | |
| | > | 14 | 26 | Platelets hypo-/agranulation | | | |
| | > | 20 | 37 | Large platelets | | | |
| | | 1 | 1,9 | Small platelets | | | |
| | > | 8 | 15 | Platelet satellitism | | | |
| (835) Overall assessment (score) | | | | | | | |
| | | 54 | | | 54 | 49 | 91 |
| 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 | | 5 | 9,3 | Unacceptable result | | | |
| | >>> | 49 | 91 | Satisfactory result | | | |

Photo 3

(821) Object no. 1: type of cell

| | | | | | | | |
|-------------|---------|----|-----|----------------------------|--|--|--|
| All results | | 1 | 1,9 | Neutrophil segment | | | |
| | | 2 | 3,7 | Eosinophil - immature form | | | |
| | CVE >>> | 51 | 94 | Eosinophil segment | | | |

(822) Object no. 1: morphology

| | | | | | | | |
|-------------|---------|----|-----|---|--|--|--|
| All results | | 2 | 3,7 | Not specified | | | |
| | CVE >>> | 47 | 87 | No changes | | | |
| | | 1 | 1,9 | Hyposegmentation or pseudo Pelger anomaly | | | |
| | | 2 | 3,7 | Hypergranulation/toxic granulation | | | |
| | | 2 | 3,7 | Vacuolisation | | | |

(841) RBC - morphology

| | | | | | | | |
|-------------|---------|----|-----|----------------|--|--|--|
| All results | | 1 | 1,9 | No changes | | | |
| | CVE >>> | 32 | 59 | Anisocytosis | | | |
| | | 12 | 22 | Microcytosis | | | |
| | | 1 | 1,9 | Normocytosis | | | |
| | | 2 | 3,7 | Poikilocytosis | | | |
| | | 10 | 19 | Anisochromia | | | |
| | | 1 | 1,9 | Hypochromia | | | |
| | CVE >>> | 25 | 46 | Polychromasia | | | |
| | > | 24 | 44 | Acanthocytes | | | |

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Setup: all data

| Sample Test Group | Frequency of the results | | | | Success | | |
|-------------------------|--------------------------|------------------|-------------------------|---|------------------|------------------|-------------------------|
| | AV | N _{tot} | N _{rel} [%] | Result | N _{eva} | N _{suc} | S _{rel} [%] |
| | | 5 | 9,3 | Dacryocytes | | | |
| | > | 23 | 43 | Echinocytes | | | |
| | | 5 | 9,3 | Ovalocytes | | | |
| | | 1 | 1,9 | Knizocytes | | | |
| | CVE >>> | 51 | 94 | Spherocytes | | | |
| | | 5 | 9,3 | Schistocytes (and other fragmentocytes) | | | |
| | CVE >>> | 41 | 76 | Stomatocytes | | | |
| | CVE >>> | 36 | 67 | Basophilic stippling | | | |
| | > | 6 | 11 | Howell-Jolly bodies | | | |
| | CVE >>> | 41 | 76 | Pappenheimer bodies | | | |

(842) Platelets - morphology

| | | | | | | | |
|-------------|---|----|-----|------------------------------|--|--|--|
| All results | > | 25 | 46 | No changes | | | |
| | | 7 | 13 | Anisocytosis | | | |
| | > | 24 | 44 | Platelets hypo-/agranulation | | | |
| | | 2 | 3,7 | Small platelets | | | |

(835) Overall assessment (score)

| | | | | | | | |
|---|--|--|--|--|----|----|----|
| | | 54 | | | 54 | 42 | 78 |
| Maximum score achievable: 40 points | | Criterion (60 % out of the maximum): 24 points | | | | | |
| Minimum score achieved: 6 points (15 %) | | | | | | | |
| Maximum score achieved: 40 points (100 %) | | | | | | | |

| | | | | | | | |
|-------------|-----|----|----|---------------------|--|--|--|
| All results | | 12 | 22 | Unacceptable result | | | |
| | >>> | 42 | 78 | Satisfactory result | | | |

Photo 4

(821) Object no. 1: type of cell

| | | | | | | | |
|-------------|---------|----|-----|--------------------|--|--|--|
| All results | CVE >>> | 53 | 98 | Neutrophil segment | | | |
| | | 1 | 1,9 | Eosinophil segment | | | |

(822) Object no. 1: morphology

| | | | | | | | |
|-------------|---------|----|----|--|--|--|--|
| All results | CVE >>> | 51 | 94 | Hypogranulation/agranulation | | | |
| | CVE >>> | 51 | 94 | Hyosegmentation or pseudo Pelger anomaly | | | |
| | > | 30 | 56 | Döhle bodies | | | |

(823) Object no. 2: type of cell

| | | | | | | | |
|-------------|---------|----|-----|----------|--|--|--|
| All results | CVE >>> | 54 | 100 | Monocyte | | | |
|-------------|---------|----|-----|----------|--|--|--|

(824) Object no. 2: morphology

| | | | | | | | |
|-------------|---------|----|-----|-----------------------------|--|--|--|
| All results | | 3 | 5,6 | Not specified | | | |
| | CVE >>> | 38 | 70 | No changes | | | |
| | > | 9 | 17 | Atypical/reactive monocytes | | | |
| | | 4 | 7,4 | Vacuolisation | | | |

(841) RBC - morphology

| | | | | | | | |
|-------------|---------|----|-----|---|--|--|--|
| All results | | 1 | 1,9 | No changes | | | |
| | | 9 | 17 | Anisocytosis | | | |
| | | 7 | 13 | Macrocytosis | | | |
| | | 8 | 15 | Normocytosis | | | |
| | | 2 | 3,7 | Anisochromia | | | |
| | > | 20 | 37 | Hypochromia | | | |
| | | 1 | 1,9 | Polychromasia | | | |
| | | 1 | 1,9 | Acanthocytes | | | |
| | > | 11 | 20 | Dacryocytes | | | |
| | | 4 | 7,4 | Echinocytes | | | |
| | > | 11 | 20 | Ovalocytes | | | |
| | CVE >>> | 38 | 70 | Knizocytes | | | |
| | | 1 | 1,9 | Spherocytes | | | |
| | | 1 | 1,9 | Schistocytes (and other fragmentocytes) | | | |
| | CVE >>> | 52 | 96 | Stomatocytes | | | |
| | | 1 | 1,9 | Howell-Jolly bodies | | | |
| | | 1 | 1,9 | Pappenheimer bodies | | | |
| | CVE >>> | 49 | 91 | Rouleaux formation | | | |

(835) Overall assessment (score)

| | | | | | | | |
|--|--|--|--|--|----|----|----|
| | | 54 | | | 54 | 51 | 94 |
| Maximum score achievable: 40 points | | Criterion (60 % out of the maximum): 24 points | | | | | |
| Minimum score achieved: 13 points (32,5 %) | | | | | | | |
| Maximum score achieved: 40 points (100 %) | | | | | | | |

| | | | | | | | |
|-------------|-----|----|-----|---------------------|--|--|--|
| All results | | 3 | 5,6 | Unacceptable result | | | |
| | >>> | 51 | 94 | Satisfactory result | | | |

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Setup: all data

| Sample Test Group | Frequency of the results | | | | Success | | |
|-------------------------|--------------------------|------------------|-------------------------|--------|------------------|------------------|-------------------------|
| | AV | N _{tot} | N _{rel} [%] | Result | N _{eva} | N _{suc} | S _{rel} [%] |

Summary for all samples

| | | | | | | | |
|----------------------------------|----|--|--|--|----|----|----|
| (835) Overall assessment (score) | 54 | | | | 54 | 49 | 91 |
|----------------------------------|----|--|--|--|----|----|----|