

EQA round: IH4/20 - Blood Group Serology

Key: >>> ... marks correct (expected) result
> ... marks conditionally correct (acceptable) result
± ... marks the result not evaluated

N ... number of the results
Nrel ... relative number of the results

Test

| Sample | Group | N | Result | N _{rel} |
|--------|-------|---|--------|------------------|
|--------|-------|---|--------|------------------|

Set 1 and 2

(700) AB0 blood group

| | | | | |
|---------------------------------|-------|----------------|----------------|-------|
| E1 and S1 All results | >>> | 156 | Blood group: A | 100 % |
| _____ Total per sample: n = 156 | ----- | Success: 100 % | ----- | ----- |
| E2 and S2 All results | >>> | 156 | Blood group: 0 | 100 % |
| _____ Total per sample: n = 156 | ----- | Success: 100 % | ----- | ----- |
| Total success: 100 % | | | | |

(703) A subgroup

| | | | | |
|--------------------------------|-------|----------------|---------------|-------|
| E1 and S1 All results | >>> | 50 | A subgroup A1 | 100 % |
| _____ Total per sample: n = 50 | ----- | Success: 100 % | ----- | ----- |
| E2 and S2 All results | >>> | 50 | Not specified | 100 % |
| _____ Total per sample: n = 50 | ----- | Success: 100 % | ----- | ----- |
| Total success: 100 % | | | | |

(705) Rh D antigen (blood-donor)

| | | | | |
|--------------------------------|-------|----------------|-----------------|-------|
| E1 and S1 All results | >>> | 90 | Positive (RhD+) | 100 % |
| _____ Total per sample: n = 90 | ----- | Success: 100 % | ----- | ----- |
| E2 and S2 All results | >>> | 90 | Negative (RhD-) | 100 % |
| _____ Total per sample: n = 90 | ----- | Success: 100 % | ----- | ----- |
| Total success: 100 % | | | | |

(709) Rh D antigen (recipient)

| | | | | |
|---------------------------------|-------|----------------|-----------------|-------|
| E1 and S1 All results | >>> | 148 | Positive (RhD+) | 100 % |
| _____ Total per sample: n = 148 | ----- | Success: 100 % | ----- | ----- |
| E2 and S2 All results | >>> | 148 | Negative (RhD-) | 100 % |
| _____ Total per sample: n = 148 | ----- | Success: 100 % | ----- | ----- |
| Total success: 100 % | | | | |

(715) Antigen C

| | | | | |
|--------------------------------|-------|----------------|----------|-------|
| E1 and S1 All results | >>> | 66 | Positive | 100 % |
| _____ Total per sample: n = 66 | ----- | Success: 100 % | ----- | ----- |
| E2 and S2 All results | >>> | 66 | Negative | 100 % |
| _____ Total per sample: n = 66 | ----- | Success: 100 % | ----- | ----- |
| Total success: 100 % | | | | |

(716) Antigen c

| | | | | |
|--------------------------------|-------|----------------|----------|-------|
| E1 and S1 All results | >>> | 66 | Negative | 100 % |
| _____ Total per sample: n = 66 | ----- | Success: 100 % | ----- | ----- |
| E2 and S2 All results | >>> | 66 | Positive | 100 % |
| _____ Total per sample: n = 66 | ----- | Success: 100 % | ----- | ----- |
| Total success: 100 % | | | | |

(717) Antigen Cw

| | | | | |
|--------------------------------|-------|----------------|----------|-------|
| E1 and S1 All results | >>> | 53 | Negative | 100 % |
| _____ Total per sample: n = 53 | ----- | Success: 100 % | ----- | ----- |
| E2 and S2 All results | >>> | 53 | Negative | 100 % |
| _____ Total per sample: n = 53 | ----- | Success: 100 % | ----- | ----- |
| Total success: 100 % | | | | |

(718) Antigen E

| | | | | |
|--------------------------------|-------|----------------|----------|-------|
| E1 and S1 All results | >>> | 66 | Negative | 100 % |
| _____ Total per sample: n = 66 | ----- | Success: 100 % | ----- | ----- |
| E2 and S2 All results | >>> | 66 | Positive | 100 % |
| _____ Total per sample: n = 66 | ----- | Success: 100 % | ----- | ----- |
| Total success: 100 % | | | | |

(719) Antigen e

| | | | | |
|--------------------------------|-------|----------------|----------|-------|
| E1 and S1 All results | >>> | 66 | Positive | 100 % |
| _____ Total per sample: n = 66 | ----- | Success: 100 % | ----- | ----- |
| E2 and S2 All results | >>> | 66 | Positive | 100 % |
| _____ Total per sample: n = 66 | ----- | Success: 100 % | ----- | ----- |
| Total success: 100 % | | | | |

(720) Antigen K

| | | | | |
|--------------------------------|-------|----------------|----------|-------|
| E1 and S1 All results | >>> | 71 | Negative | 100 % |
| _____ Total per sample: n = 71 | ----- | Success: 100 % | ----- | ----- |
| E2 and S2 All results | >>> | 71 | Negative | 100 % |
| _____ Total per sample: n = 71 | ----- | Success: 100 % | ----- | ----- |
| Total success: 100 % | | | | |

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| Test | Sample | Group | N | Result | N _{rel} |
|--------------------------------|--------|-------|----------------|----------|------------------|
| (721) Antigen k | | | | | |
| E1 and S1 All results | | | >>> 39 | Positive | 100 % |
| _____ Total per sample: n = 39 | | | Success: 100 % | | |
| E2 and S2 All results | | | >>> 39 | Positive | 100 % |
| _____ Total per sample: n = 39 | | | Success: 100 % | | |
| Total success: 100 % | | | | | |
| (722) Antigen M | | | | | |
| E1 and S1 All results | | | >>> 37 | Positive | 100 % |
| _____ Total per sample: n = 37 | | | Success: 100 % | | |
| E2 and S2 All results | | | >>> 37 | Positive | 100 % |
| _____ Total per sample: n = 37 | | | Success: 100 % | | |
| Total success: 100 % | | | | | |
| (723) Antigen N | | | | | |
| E1 and S1 All results | | | >>> 34 | Negative | 100 % |
| _____ Total per sample: n = 34 | | | Success: 100 % | | |
| E2 and S2 All results | | | >>> 34 | Positive | 100 % |
| _____ Total per sample: n = 34 | | | Success: 100 % | | |
| Total success: 100 % | | | | | |
| (724) Antigen S | | | | | |
| E1 and S1 All results | | | >>> 37 | Negative | 100 % |
| _____ Total per sample: n = 37 | | | Success: 100 % | | |
| E2 and S2 All results | | | >>> 37 | Positive | 100 % |
| _____ Total per sample: n = 37 | | | Success: 100 % | | |
| Total success: 100 % | | | | | |
| (725) Antigen s | | | | | |
| E1 and S1 All results | | | >>> 35 | Positive | 100 % |
| _____ Total per sample: n = 35 | | | Success: 100 % | | |
| E2 and S2 All results | | | >>> 35 | Negative | 100 % |
| _____ Total per sample: n = 35 | | | Success: 100 % | | |
| Total success: 100 % | | | | | |
| (726) Antigen P1 | | | | | |
| E1 and S1 All results | | | >>> 28 | Positive | 100 % |
| _____ Total per sample: n = 28 | | | Success: 100 % | | |
| E2 and S2 All results | | | >>> 28 | Negative | 100 % |
| _____ Total per sample: n = 28 | | | Success: 100 % | | |
| Total success: 100 % | | | | | |
| (727) Antigen Fya | | | | | |
| E1 and S1 All results | | | >>> 38 | Positive | 100 % |
| _____ Total per sample: n = 38 | | | Success: 100 % | | |
| E2 and S2 All results | | | 1 | Negative | 2,6 % |
| _____ Total per sample: n = 38 | | | >>> 37 | Positive | 97 % |
| _____ Total per sample: n = 38 | | | Success: 97 % | | |
| Total success: 97 % | | | | | |
| (728) Antigen Fyb | | | | | |
| E1 and S1 All results | | | >>> 38 | Positive | 100 % |
| _____ Total per sample: n = 38 | | | Success: 100 % | | |
| E2 and S2 All results | | | >>> 38 | Negative | 100 % |
| _____ Total per sample: n = 38 | | | Success: 100 % | | |
| Total success: 100 % | | | | | |
| (729) Antigen Jka | | | | | |
| E1 and S1 All results | | | >>> 37 | Positive | 100 % |
| _____ Total per sample: n = 37 | | | Success: 100 % | | |
| E2 and S2 All results | | | >>> 37 | Positive | 100 % |
| _____ Total per sample: n = 37 | | | Success: 100 % | | |
| Total success: 100 % | | | | | |
| (730) Antigen Jkb | | | | | |
| E1 and S1 All results | | | >>> 37 | Positive | 100 % |
| _____ Total per sample: n = 37 | | | Success: 100 % | | |
| E2 and S2 All results | | | >>> 37 | Negative | 100 % |
| _____ Total per sample: n = 37 | | | Success: 100 % | | |
| Total success: 100 % | | | | | |
| (731) Antigen Lua | | | | | |
| E1 and S1 All results | | | >>> 23 | Negative | 100 % |
| _____ Total per sample: n = 23 | | | Success: 100 % | | |
| E2 and S2 All results | | | >>> 23 | Negative | 100 % |
| _____ Total per sample: n = 23 | | | Success: 100 % | | |

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| Test | | N | Result | N _{rel} |
|---|----------------------|---------|------------------------|------------------|
| Sample | Group | | | |
| Total success: 100 % | | | | |
| (732) Antigen Lub | | | | |
| E1 and S1 All results | | 1 | Negative | 3,8 % |
| | | >>> 25 | Positive | 96 % |
| _____ Total per sample: n = 26 | _____ Success: 96 % | | | |
| E2 and S2 All results | | 1 | Negative | 3,8 % |
| | | >>> 25 | Positive | 96 % |
| _____ Total per sample: n = 26 | _____ Success: 96 % | | | |
| Total success: 96 % | | | | |
| (733) Antigen Lea | | | | |
| E1 and S1 All results | | >>> 34 | Negative | 97 % |
| | | 1 | Positive | 2,9 % |
| _____ Total per sample: n = 35 | _____ Success: 97 % | | | |
| E2 and S2 All results | | >>> 35 | Negative | 100 % |
| _____ Total per sample: n = 35 | _____ Success: 100 % | | | |
| Total success: 97 % | | | | |
| (734) Antigen Leb | | | | |
| E1 and S1 All results | | 1 | Negative | 2,9 % |
| | | >>> 34 | Positive | 97 % |
| _____ Total per sample: n = 35 | _____ Success: 97 % | | | |
| E2 and S2 All results | | >>> 35 | Positive | 100 % |
| _____ Total per sample: n = 35 | _____ Success: 100 % | | | |
| Total success: 97 % | | | | |
| (737) Direct Coombs (antiglobulin) test | | | | |
| E1 and S1 All results | | >>> 126 | Negative | 100 % |
| _____ Total per sample: n = 126 | _____ Success: 100 % | | | |
| E2 and S2 All results | | >>> 126 | Negative | 100 % |
| _____ Total per sample: n = 126 | _____ Success: 100 % | | | |
| Total success: 100 % | | | | |
| (741) Antibody screening (IAT, blood donor) | | | | |
| E1 and S1 All results | | >>> 81 | Positive | 100 % |
| _____ Total per sample: n = 81 | _____ Success: 100 % | | | |
| E2 and S2 All results | | >>> 81 | Positive | 100 % |
| _____ Total per sample: n = 81 | _____ Success: 100 % | | | |
| Total success: 100 % | | | | |
| (743) Antibody screening (IAT, recipient) | | | | |
| E1 and S1 All results | | >>> 137 | Positive | 100 % |
| _____ Total per sample: n = 137 | _____ Success: 100 % | | | |
| E2 and S2 All results | | >>> 137 | Positive | 100 % |
| _____ Total per sample: n = 137 | _____ Success: 100 % | | | |
| Total success: 100 % | | | | |
| (745) Antibody screening (IAT, pregnant) | | | | |
| E1 and S1 All results | | >>> 113 | Positive | 100 % |
| _____ Total per sample: n = 113 | _____ Success: 100 % | | | |
| E2 and S2 All results | | >>> 113 | Positive | 100 % |
| _____ Total per sample: n = 113 | _____ Success: 100 % | | | |
| Total success: 100 % | | | | |
| (747) Antibody screening (enzyme test) | | | | |
| E1 and S1 All results | | >>> 103 | Positive | 100 % |
| _____ Total per sample: n = 103 | _____ Success: 100 % | | | |
| E2 and S2 All results | | >>> 103 | Positive | 100 % |
| _____ Total per sample: n = 103 | _____ Success: 100 % | | | |
| Total success: 100 % | | | | |
| (750) Antibody identification | | | | |
| E1 and S1 All results | | >>> 43 | anti-E; anti-S | 98 % |
| | | 1 | anti-E; anti-S; anti-K | 2,3 % |
| _____ Total per sample: n = 44 | _____ Success: 98 % | | | |
| E2 and S2 All results | | >>> 43 | anti-D | 98 % |
| | | 1 | anti-D; anti-Cw | 2,3 % |
| _____ Total per sample: n = 44 | _____ Success: 98 % | | | |
| Total success: 98 % | | | | |
| (752) Antibody titre, Sample 1: 1st antibody | | | | |
| E1 and S1 All results | | ± 10 | titre 16 | 31 % |
| | | ± 10 | titre 32 | 31 % |
| | | ± 10 | titre 64 | 31 % |
| | | ± 2 | titre 128 | 6,3 % |

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| Test | | N | Result | N _{rel} |
|---|-------------|--|--|------------------|
| Sample | Group | | | |
| Total per sample: n = 32 | | Success (only evaluated results): evaluation | | |
| (753) Antibody titre, Sample 1: 2nd antibody | | | | |
| E1 and S1 | All results | ± 2 | titre 4 | 6,3 % |
| | | ± 9 | titre 8 | 28 % |
| | | ± 13 | titre 16 | 41 % |
| | | ± 8 | titre 32 | 25 % |
| Total per sample: n = 32 | | Success (only evaluated results): evaluation | | |
| (756) Antibody titre, Sample 2: 1st antibody | | | | |
| E2 and S2 | All results | ± 9 | titre 256 | 28 % |
| | | ± 4 | titre 512 | 13 % |
| | | ± 1 | titre 32 | 3,1 % |
| | | ± 5 | titre 64 | 16 % |
| | | ± 13 | titre 128 | 41 % |
| Total per sample: n = 32 | | Success (only evaluated results): evaluation | | |
| Set 3 | | | | |
| (760) Crossmatch | | | | |
| S1 | All results | >>> 124 | Crossmatch successful | 100 % |
| Total per sample: n = 124 | | Success: 100 % | | |
| S2 | All results | >>> 124 | Crossmatch successful | 100 % |
| Total per sample: n = 124 | | Success: 100 % | | |
| Total success: 100 % | | | | |
| (761) Crossmatch (segment K1) | | | | |
| S1 | All results | >>> 124 | Negative test | 100 % |
| Total per sample: n = 124 | | Success: 100 % | | |
| S2 | All results | >>> 124 | Positive test | 100 % |
| Total per sample: n = 124 | | Success: 100 % | | |
| Total success: 100 % | | | | |
| (762) Serve transfusion product (segment K1) | | | | |
| S1 | All results | ± 1 | Impossible, risk of haemolysis | 0,81 % |
| | | ± 73 | Decision depends on results of other tests not performed in our laboratory | 59 % |
| | | ± 27 | Only if more suitable products are not available | 22 % |
| | | ± 23 | Possible | 19 % |
| Total per sample: n = 124 | | Success (only evaluated results): evaluation | | |
| S2 | All results | ± 124 | Impossible, risk of haemolysis | 100 % |
| Total per sample: n = 124 | | Success (only evaluated results): evaluation | | |
| (764) Crossmatch (segment K2) | | | | |
| S1 | All results | >>> 124 | Positive test | 100 % |
| Total per sample: n = 124 | | Success: 100 % | | |
| S2 | All results | >>> 124 | Negative test | 100 % |
| Total per sample: n = 124 | | Success: 100 % | | |
| Total success: 100 % | | | | |
| (765) Serve transfusion product (segment K2) | | | | |
| S1 | All results | ± 124 | Impossible, risk of haemolysis | 100 % |
| Total per sample: n = 124 | | Success (only evaluated results): evaluation | | |
| S2 | All results | ± 2 | Impossible, risk of haemolysis | 1,6 % |
| | | ± 68 | Decision depends on results of other tests not performed in our laboratory | 55 % |
| | | ± 4 | Only if more suitable products are not available | 3,2 % |
| | | ± 50 | Possible | 40 % |
| Total per sample: n = 124 | | Success (only evaluated results): evaluation | | |