

EQA round: KO6/24 - Blood Count

Deadline: 20.9.2024

Setup: groups - P (manufacturer of instrument); minimal size of the groups n = 5

| | | |
|---------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------|
| RoM = robust average | AV = assigned value | D _{max} = acceptable difference |
| SD = standard deviation | CVP = consensus of all participants | LL = lower limit |
| CV = coefficient of variation | CVPG = consensus of the participants' groups | UL = upper limit |
| N _{tot} = total number of the results | U _{AV} = expanded uncertainty of the assigned value (k = 2) | N _{eva} = number of the results assessed |
| N _{out} = number of the results removed before calculation | | N _{suc} = number of successful results |
| | | S _{rel} = relative success |

| Test Sample Group | [unit] | RoM | SD | CV [%] | N _{tot} | N _{out} | Comparability | | | | | N _{eva} | N _{suc} | S _{rel} [%] |
|----------------------------------------|------------------------|-------|-------|-----------|------------------|------------------|---------------|------------------------|------------------|-----|-------|------------------|------------------|-------------------------|
| | | | | | | | AV | U _{AV} | D _{max} | LL | UL | | | |
| (150) WBC | [·10 ⁹ /L] | | | | 196 | | | | | | | 181 | 177 | 98 |
| Sample A | | 5,36 | 0,25 | 4,7 | 196 | | | | | | | 181 | 178 | 98 |
| (1) Abbott | | 5,19 | 0,24 | 4,6 | 17 | 0 | CVP | 5,4 | 0,038 | 15% | 4,59 | 6,21 | 17 | |
| (1) Abbott; (765) Abbott CELL-DYN Ruby | | 4,56 | 0,25 | 5,4 | 15 | 0 | CVPG | 4,56 | 0,16 | 15% | 3,87 | 5,25 | 0 | |
| (12) Beckman Coulter | | 5,23 | 0,21 | 4 | 17 | 0 | CVP | 5,4 | 0,038 | 15% | 4,59 | 6,21 | 17 | |
| (63) Sysmex | | 5,48 | 0,12 | 2,3 | 105 | 0 | CVP | 5,4 | 0,038 | 15% | 4,59 | 6,21 | 105 | |
| (177) Mindray | | 5,26 | 0,4 | 7,5 | 27 | 0 | CVP | 5,4 | 0,038 | 15% | 4,59 | 6,21 | 27 | |
| (179) Siemens | | 5,27 | 0,2 | 3,8 | 6 | 0 | CVP | 5,4 | 0,038 | 15% | 4,59 | 6,21 | 6 | |
| Other | | | | | 9 | 0 | | | | | | | 9 | |
| | | | | | | | | 4x 157, 1x 204, 4x 999 | | | | | | |
| Sample B | | 5,13 | 0,22 | 4,3 | 196 | | | | | | | 181 | 178 | 98 |
| (1) Abbott | | 4,97 | 0,24 | 4,8 | 17 | 0 | CVP | 5,15 | 0,035 | 15% | 4,37 | 5,93 | 17 | |
| (1) Abbott; (765) Abbott CELL-DYN Ruby | | 4,81 | 0,16 | 3,3 | 15 | 0 | CVPG | 4,81 | 0,1 | 15% | 4,08 | 5,54 | 0 | |
| (12) Beckman Coulter | | 4,97 | 0,19 | 3,8 | 17 | 0 | CVP | 5,15 | 0,035 | 15% | 4,37 | 5,93 | 17 | |
| (63) Sysmex | | 5,24 | 0,12 | 2,3 | 105 | 0 | CVP | 5,15 | 0,035 | 15% | 4,37 | 5,93 | 105 | |
| (177) Mindray | | 5,04 | 0,34 | 6,7 | 27 | 0 | CVP | 5,15 | 0,035 | 15% | 4,37 | 5,93 | 27 | |
| (179) Siemens | | 4,95 | 0,14 | 2,8 | 6 | 0 | CVP | 5,15 | 0,035 | 15% | 4,37 | 5,93 | 6 | |
| Other | | | | | 9 | 0 | | | | | | | 9 | |
| | | | | | | | | 4x 157, 1x 204, 4x 999 | | | | | | |
| (151) RBC | [·10 ¹² /L] | | | | 196 | | | | | | | 196 | 192 | 98 |
| Sample A | | 3,82 | 0,074 | 1,9 | 196 | | CVP | 3,82 | 0,013 | 7% | 3,55 | 4,09 | 196 | 192 |
| (1) Abbott | | 3,78 | 0,1 | 2,8 | 32 | 1 | | | | | | | 32 | |
| (12) Beckman Coulter | | 3,83 | 0,052 | 1,4 | 17 | 0 | | | | | | | 17 | |
| (63) Sysmex | | 3,82 | 0,059 | 1,5 | 105 | 0 | | | | | | | 105 | |
| (177) Mindray | | 3,82 | 0,1 | 2,7 | 27 | 0 | | | | | | | 27 | |
| (179) Siemens | | 3,93 | 0,082 | 2,1 | 6 | 0 | | | | | | | 6 | |
| Other | | | | | 9 | 0 | | | | | | | 9 | |
| | | | | | | | | 4x 157, 1x 204, 4x 999 | | | | | | |
| Sample B | | 3,73 | 0,068 | 1,8 | 196 | | CVP | 3,73 | 0,012 | 7% | 3,46 | 4 | 196 | 195 |
| (1) Abbott | | 3,71 | 0,08 | 2,2 | 32 | 0 | | | | | | | 32 | |
| (12) Beckman Coulter | | 3,75 | 0,038 | 1 | 17 | 0 | | | | | | | 17 | |
| (63) Sysmex | | 3,73 | 0,06 | 1,6 | 105 | 0 | | | | | | | 105 | |
| (177) Mindray | | 3,72 | 0,088 | 2,4 | 27 | 0 | | | | | | | 27 | |
| (179) Siemens | | 3,81 | 0,096 | 2,5 | 6 | 0 | | | | | | | 6 | |
| Other | | | | | 9 | 0 | | | | | | | 9 | |
| | | | | | | | | 4x 157, 1x 204, 4x 999 | | | | | | |
| (152) Haemoglobin | [g/L] | | | | 202 | | | | | | | 202 | 196 | 97 |
| Sample A | | 122 | 2 | 1,7 | 202 | | CVP | 122 | 0,35 | 6% | 114 | 130 | 202 | 199 |
| (1) Abbott | | 124 | 2,6 | 2,1 | 32 | 0 | | | | | | | 32 | |
| (12) Beckman Coulter | | 121 | 1,5 | 1,2 | 17 | 0 | | | | | | | 17 | |
| (61) Radiometer | | 126 | 3 | 2,4 | 6 | 0 | | | | | | | 6 | |
| (63) Sysmex | | 122 | 1,4 | 1,2 | 105 | 0 | | | | | | | 105 | |
| (177) Mindray | | 122 | 1,8 | 1,5 | 27 | 0 | | | | | | | 27 | |
| (179) Siemens | | 126 | 0,74 | 0,59 | 6 | 0 | | | | | | | 6 | |
| Other | | | | | 9 | 0 | | | | | | | 9 | |
| | | | | | | | | 4x 157, 1x 204, 4x 999 | | | | | | |
| Sample B | | 109 | 1,9 | 1,7 | 202 | | CVP | 109 | 0,32 | 6% | 102 | 116 | 202 | 198 |
| (1) Abbott | | 111 | 2,2 | 2 | 32 | 0 | | | | | | | 32 | |
| (12) Beckman Coulter | | 109 | 1,2 | 1,1 | 17 | 0 | | | | | | | 17 | |
| (61) Radiometer | | 113 | 3,7 | 3,3 | 6 | 0 | | | | | | | 6 | |
| (63) Sysmex | | 109 | 1,5 | 1,4 | 105 | 0 | | | | | | | 105 | |
| (177) Mindray | | 109 | 1,9 | 1,7 | 27 | 0 | | | | | | | 27 | |
| (179) Siemens | | 113 | 0,74 | 0,66 | 6 | 0 | | | | | | | 6 | |
| Other | | | | | 9 | 0 | | | | | | | 9 | |
| | | | | | | | | 4x 157, 1x 204, 4x 999 | | | | | | |
| (153) HCT | [-] | | | | 196 | | | | | | | 196 | 194 | 99 |
| Sample A | | 0,383 | 0,012 | 3 | 196 | | CVP | 0,383 | 0,002 | 10% | 0,344 | 0,422 | 196 | 194 |
| (1) Abbott | | 0,377 | 0,013 | 3,6 | 32 | 0 | | | | | | | 32 | |
| (12) Beckman Coulter | | 0,374 | 0,007 | 1,8 | 17 | 0 | | | | | | | 17 | |
| (63) Sysmex | | 0,388 | 0,007 | 1,9 | 105 | 0 | | | | | | | 105 | |
| (177) Mindray | | 0,368 | 0,015 | 4 | 27 | 0 | | | | | | | 27 | |
| (179) Siemens | | 0,402 | 0,003 | 0,75 | 6 | 0 | | | | | | | 6 | |
| Other | | | | | 9 | 0 | | | | | | | 9 | |
| | | | | | | | | 4x 157, 1x 204, 4x 999 | | | | | | |

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Setup: groups - P (manufacturer of instrument); minimal size of the groups n = 5

| Test Sample Group | [unit] | RoM | SD | CV [%] | N _{tot} | N _{out} | Comparability | | | | | N _{eva} | N _{suc} | S _{rel} [%] | |
|-------------------------|-----------------------|-------|-------|-----------|------------------|------------------|--------------------------------|-----------------|------------------|-----|-------|------------------|------------------|-------------------------|-----|
| | | | | | | | AV | U _{AV} | D _{max} | LL | UL | | | | |
| Sample B | | 0,349 | 0,012 | 3,3 | 196 | | CVP | 0,349 | 0,002 | 10% | 0,314 | 0,384 | 196 | 195 | 99 |
| (1) Abbott | | 0,343 | 0,01 | 2,9 | 32 | 0 | | | | | | | 32 | | |
| (12) Beckman Coulter | | 0,341 | 0,003 | 0,94 | 17 | 0 | | | | | | | 17 | | |
| (63) Sysmex | | 0,356 | 0,007 | 1,8 | 105 | 0 | | | | | | | 105 | | |
| (177) Mindray | | 0,334 | 0,013 | 3,9 | 27 | 0 | | | | | | | 27 | | |
| (179) Siemens | | 0,361 | 0,004 | 1,2 | 6 | 0 | | | | | | | 6 | | |
| Other | | | | | 9 | 0 | | | | | | | 9 | | |
| | | | | | | | 4x 157, 1x 204, 4x 999 | | | | | | | | |
| (154) MCV | [fL] | | | | 196 | | | | | | | | 196 | 196 | 100 |
| Sample A | | 100 | 2,6 | 2,6 | 196 | | CVP | 100 | 0,45 | 10% | 90 | 110 | 196 | 196 | 100 |
| (1) Abbott | | 100 | 2,5 | 2,5 | 32 | 0 | | | | | | | 32 | | |
| (12) Beckman Coulter | | 97,9 | 1,3 | 1,3 | 17 | 0 | | | | | | | 17 | | |
| (63) Sysmex | | 101 | 1,2 | 1,2 | 105 | 0 | | | | | | | 105 | | |
| (177) Mindray | | 96,2 | 2,4 | 2,5 | 27 | 0 | | | | | | | 27 | | |
| (179) Siemens | | 102 | 1,3 | 1,2 | 6 | 0 | | | | | | | 6 | | |
| Other | | | | | 9 | 0 | | | | | | | 9 | | |
| | | | | | | | 4x 157, 1x 204, 4x 999 | | | | | | | | |
| Sample B | | 93,6 | 2,8 | 3 | 196 | | CVP | 93,6 | 0,49 | 10% | 84,2 | 103 | 196 | 196 | 100 |
| (1) Abbott | | 92,6 | 2,1 | 2,2 | 32 | 0 | | | | | | | 32 | | |
| (12) Beckman Coulter | | 90,7 | 0,99 | 1,1 | 17 | 0 | | | | | | | 17 | | |
| (63) Sysmex | | 95,3 | 1,2 | 1,2 | 105 | 0 | | | | | | | 105 | | |
| (177) Mindray | | 89,9 | 2,2 | 2,5 | 27 | 0 | | | | | | | 27 | | |
| (179) Siemens | | 95,2 | 0,74 | 0,78 | 6 | 0 | | | | | | | 6 | | |
| Other | | | | | 9 | 0 | | | | | | | 9 | | |
| | | | | | | | 4x 157, 1x 204, 4x 999 | | | | | | | | |
| (156) RDW | [%] | | | | 178 | | | | | | | | 173 | 170 | 98 |
| Sample A | | 13,4 | 0,36 | 2,6 | 178 | | CVPG | 13,1 | 0,26 | 10% | 11,7 | 14,5 | 173 | 171 | 99 |
| (1) Abbott | | 13,1 | 0,59 | 4,5 | 30 | 0 | CVPG | 13,1 | 0,26 | 10% | 11,7 | 14,5 | 30 | | |
| (12) Beckman Coulter | | 14,4 | 0,2 | 1,4 | 17 | 0 | CVPG | 14,4 | 0,12 | 10% | 12,9 | 15,9 | 17 | | |
| (63) Sysmex | | 13,4 | 0,15 | 1,1 | 94 | 0 | CVPG | 13,4 | 0,038 | 10% | 12 | 14,8 | 94 | | |
| (177) Mindray | | 13,6 | 0,52 | 3,8 | 26 | 0 | CVPG | 13,6 | 0,25 | 10% | 12,2 | 15 | 26 | | |
| (179) Siemens | | 13,5 | 0,59 | 4,4 | 6 | 0 | CVPG | 13,5 | 0,83 | 10% | 12,1 | 14,9 | 6 | | |
| Other | | | | | 5 | 0 | | | | | | | 0 | | |
| | | | | | | | 3x 157, 1x 204, 1x 999 | | | | | | | | |
| Sample B | | 14,2 | 0,41 | 2,9 | 178 | | | | | | | | 173 | 172 | 99 |
| (1) Abbott | | 13,9 | 0,58 | 4,2 | 30 | 0 | CVPG | 13,9 | 0,26 | 10% | 12,5 | 15,3 | 30 | | |
| (12) Beckman Coulter | | 15,4 | 0,25 | 1,6 | 17 | 0 | CVPG | 15,4 | 0,15 | 10% | 13,8 | 17 | 17 | | |
| (63) Sysmex | | 14,1 | 0,17 | 1,2 | 94 | 0 | CVPG | 14,1 | 0,043 | 10% | 12,6 | 15,6 | 94 | | |
| (177) Mindray | | 14,5 | 0,57 | 3,9 | 26 | 0 | CVPG | 14,5 | 0,27 | 10% | 13 | 16 | 26 | | |
| (179) Siemens | | 14,4 | 0,67 | 4,6 | 6 | 0 | CVPG | 14,4 | 0,93 | 10% | 12,9 | 15,9 | 6 | | |
| Other | | | | | 5 | 0 | | | | | | | 0 | | |
| | | | | | | | 3x 157, 1x 204, 1x 999 | | | | | | | | |
| (155) Platelets | [·10 ⁹ /L] | | | | 196 | | | | | | | | 196 | 192 | 98 |
| Sample A | | 278 | 14 | 5 | 196 | | CVP | 278 | 2,4 | 18% | 227 | 329 | 196 | 192 | 98 |
| (1) Abbott | | 269 | 17 | 6,3 | 32 | 0 | | | | | | | 32 | | |
| (12) Beckman Coulter | | 281 | 9,6 | 3,4 | 17 | 0 | | | | | | | 17 | | |
| (63) Sysmex | | 280 | 11 | 3,8 | 105 | 0 | | | | | | | 105 | | |
| (177) Mindray | | 284 | 16 | 5,8 | 27 | 0 | | | | | | | 27 | | |
| (179) Siemens | | 236 | 13 | 5,4 | 6 | 0 | | | | | | | 6 | | |
| Other | | | | | 9 | 0 | | | | | | | 9 | | |
| | | | | | | | 4x 157, 1x 204, 4x 999 | | | | | | | | |
| Sample B | | 185 | 9,8 | 5,3 | 196 | | CVP | 185 | 1,7 | 18% | 151 | 219 | 196 | 194 | 99 |
| (1) Abbott | | 177 | 15 | 8,3 | 32 | 0 | | | | | | | 32 | | |
| (12) Beckman Coulter | | 178 | 6,3 | 3,5 | 17 | 0 | | | | | | | 17 | | |
| (63) Sysmex | | 188 | 5,7 | 3 | 105 | 0 | | | | | | | 105 | | |
| (177) Mindray | | 187 | 11 | 5,6 | 27 | 0 | | | | | | | 27 | | |
| (179) Siemens | | 171 | 8,2 | 4,8 | 6 | 0 | | | | | | | 6 | | |
| Other | | | | | 9 | 0 | | | | | | | 9 | | |
| | | | | | | | 4x 157, 1x 204, 4x 999 | | | | | | | | |
| (157) MPV | [fL] | | | | 172 | | | | | | | | 166 | 156 | 94 |
| Sample A | | 9,47 | 1 | 11 | 172 | | | | | | | | 166 | 157 | 95 |
| (1) Abbott | | 7 | 1,3 | 19 | 25 | 0 | CVPG | 7 | 0,64 | 18% | 5,74 | 8,26 | 25 | | |
| (12) Beckman Coulter | | 8,37 | 0,37 | 4,5 | 17 | 0 | CVPG | 8,37 | 0,22 | 18% | 6,86 | 9,88 | 17 | | |
| (63) Sysmex | | 9,95 | 0,31 | 3,1 | 91 | 0 | CVPG | 9,95 | 0,079 | 18% | 8,15 | 11,8 | 91 | | |
| (177) Mindray | | 9,74 | 0,48 | 4,9 | 27 | 0 | CVPG | 9,74 | 0,23 | 18% | 7,98 | 11,5 | 27 | | |
| (179) Siemens | | 11 | 0,74 | 6,7 | 6 | 0 | CVPG | 11 | 1 | 18% | 9,02 | 13 | 6 | | |
| Other | | | | | 6 | 0 | | | | | | | 0 | | |
| | | | | | | | 3x 157, 1x 204, 1x 207, 1x 999 | | | | | | | | |
| Sample B | | 11,4 | 1,1 | 9,8 | 172 | | | | | | | | 166 | 159 | 96 |
| (1) Abbott | | 8,87 | 0,97 | 11 | 25 | 0 | CVPG | 8,87 | 0,47 | 18% | 7,27 | 10,5 | 25 | | |

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Setup: groups - P (manufacturer of instrument); minimal size of the groups n = 5

| Test Sample Group | [unit] | RoM | SD | CV [%] | N _{tot} | N _{out} | Comparability | | | | | N _{eva} | N _{suc} | S _{rel} [%] | |
|----------------------------------|-----------------------|------|-------|--------|------------------|------------------|--------------------------------|-----------------|------------------|-----|------|------------------|------------------|----------------------|-----|
| | | | | | | | AV | U _{AV} | D _{max} | LL | UL | | | | |
| (12) Beckman Coulter | | 10,3 | 0,36 | 3,5 | 17 | 0 | CVPG | 10,3 | 0,21 | 18% | 8,44 | 12,2 | 17 | | |
| (63) Sysmex | | 12 | 0,35 | 2,9 | 91 | 0 | CVPG | 12 | 0,09 | 18% | 9,84 | 14,2 | 91 | | |
| (177) Mindray | | 11,9 | 0,63 | 5,3 | 27 | 0 | CVPG | 11,9 | 0,3 | 18% | 9,75 | 14,1 | 27 | | |
| (179) Siemens | | 12,1 | 0,44 | 3,7 | 6 | 0 | CVPG | 12,1 | 0,62 | 18% | 9,92 | 14,3 | 6 | | |
| Other | | | | | 6 | 1 | | | | | | | 0 | | |
| | | | | | | | 3x 157, 1x 204, 1x 207, 1x 999 | | | | | | | | |
| (129) Immature platelet fraction | [%] | | | | 16 | | | | | | | | 11 | 10 | 91 |
| Sample A | | 3,47 | 0,87 | 25 | 16 | | | | | | | | 11 | 10 | 91 |
| (63) Sysmex | | 3,66 | 0,58 | 16 | 11 | 0 | CVPG | 3,66 | 0,43 | 40% | 2,19 | 5,13 | 11 | | |
| Other | | | | | 5 | 0 | | | | | | | 0 | | |
| | | | | | | | 2x 1, 3x 177 | | | | | | | | |
| Sample B | | 7,05 | 2,3 | 32 | 16 | | | | | | | | 11 | 10 | 91 |
| (63) Sysmex | | 8,11 | 0,9 | 11 | 11 | 0 | CVPG | 8,11 | 0,67 | 40% | 4,86 | 11,4 | 11 | | |
| Other | | | | | 5 | 0 | | | | | | | 0 | | |
| | | | | | | | 2x 1, 3x 177 | | | | | | | | |
| (158) PDW [%] | [%] | | | | 6 | | | | | | | | 0 | | |
| Sample A | | 33,6 | 24 | 71 | 6 | | | | | | | | 0 | | |
| Other | | | | | 6 | 0 | | | | | | | 0 | | |
| | | | | | | | 3x 157, 3x 179 | | | | | | | | |
| Sample B | | 37 | 30 | 81 | 6 | | | | | | | | 0 | | |
| Other | | | | | 6 | 0 | | | | | | | 0 | | |
| | | | | | | | 3x 157, 3x 179 | | | | | | | | |
| (165) PDW [fL] | [fL] | | | | 88 | | | | | | | | 88 | 82 | 93 |
| Sample A | | 10,9 | 0,77 | 7,1 | 88 | | CVP | 10,9 | 0,2 | 15% | 9,26 | 12,6 | 88 | 83 | 94 |
| (63) Sysmex | | 10,9 | 0,76 | 7 | 87 | 0 | | | | | | | 87 | | |
| Other | | | | | 1 | 0 | | | | | | | 1 | | |
| | | | | | | | 1x 999 | | | | | | | | |
| Sample B | | 15,7 | 0,97 | 6,2 | 88 | | CVP | 15,7 | 0,25 | 15% | 13,3 | 18,1 | 88 | 86 | 98 |
| (63) Sysmex | | 15,7 | 0,95 | 6,1 | 87 | 0 | | | | | | | 87 | | |
| Other | | | | | 1 | 0 | | | | | | | 1 | | |
| | | | | | | | 1x 999 | | | | | | | | |
| (166) PDW [-] | [-] | | | | 20 | | | | | | | | 20 | 20 | 100 |
| Sample A | | | | | 20 | | | | | | | | 20 | 20 | 100 |
| (177) Mindray | | 16,3 | 0,18 | 1,1 | 20 | 0 | CVP | 16,3 | 0,096 | 15% | 13,8 | 18,8 | 20 | | |
| Sample B | | | | | 20 | | | | | | | | 20 | 20 | 100 |
| (177) Mindray | | 16,4 | 0,15 | 0,92 | 20 | 0 | CVP | 16,4 | 0,083 | 15% | 13,9 | 18,9 | 20 | | |
| (160) Neutrophiles | [·10 ⁹ /L] | | | | 162 | | | | | | | | 134 | 130 | 97 |
| Sample A | | 2,84 | 0,26 | 9,1 | 162 | | | | | | | | 134 | 131 | 98 |
| (1) Abbott | | 2,04 | 0,61 | 30 | 28 | 1 | CVPG | 2,04 | 0,29 | 25% | 1,53 | 2,55 | 0 | | |
| (12) Beckman Coulter | | 2,85 | 0,23 | 8,1 | 17 | 0 | CVP | 2,92 | 0,033 | 25% | 2,19 | 3,65 | 17 | | |
| (63) Sysmex | | 2,95 | 0,12 | 4 | 91 | 0 | CVP | 2,92 | 0,033 | 25% | 2,19 | 3,65 | 91 | | |
| (177) Mindray | | 2,81 | 0,41 | 15 | 17 | 0 | CVP | 2,92 | 0,033 | 25% | 2,19 | 3,65 | 17 | | |
| (179) Siemens | | 2,87 | 0,16 | 5,7 | 6 | 0 | CVP | 2,92 | 0,033 | 25% | 2,19 | 3,65 | 6 | | |
| Other | | | | | 3 | 0 | | | | | | | 3 | | |
| | | | | | | | 2x 157, 1x 999 | | | | | | | | |
| Sample B | | 2,11 | 0,13 | 6,3 | 162 | | | | | | | | 134 | 132 | 99 |
| (1) Abbott | | 1,77 | 0,26 | 15 | 28 | 1 | CVPG | 1,77 | 0,12 | 25% | 1,32 | 2,22 | 0 | | |
| (12) Beckman Coulter | | 2,17 | 0,22 | 9,9 | 17 | 0 | CVP | 2,15 | 0,019 | 25% | 1,61 | 2,69 | 17 | | |
| (63) Sysmex | | 2,14 | 0,067 | 3,1 | 91 | 0 | CVP | 2,15 | 0,019 | 25% | 1,61 | 2,69 | 91 | | |
| (177) Mindray | | 2,16 | 0,26 | 12 | 17 | 0 | CVP | 2,15 | 0,019 | 25% | 1,61 | 2,69 | 17 | | |
| (179) Siemens | | 2,14 | 0,089 | 4,2 | 6 | 0 | CVP | 2,15 | 0,019 | 25% | 1,61 | 2,69 | 6 | | |
| Other | | | | | 3 | 0 | | | | | | | 3 | | |
| | | | | | | | 2x 157, 1x 999 | | | | | | | | |
| (161) Lymphocytes | [·10 ⁹ /L] | | | | 164 | | | | | | | | 136 | 132 | 97 |
| Sample A | | 1,9 | 0,13 | 6,6 | 164 | | | | | | | | 136 | 133 | 98 |
| (1) Abbott | | 2,23 | 0,23 | 10 | 28 | 1 | CVPG | 2,23 | 0,11 | 25% | 1,67 | 2,79 | 0 | | |
| (12) Beckman Coulter | | 1,85 | 0,11 | 6 | 17 | 0 | CVP | 1,86 | 0,016 | 25% | 1,39 | 2,33 | 17 | | |
| (63) Sysmex | | 1,86 | 0,059 | 3,2 | 92 | 0 | CVP | 1,86 | 0,016 | 25% | 1,39 | 2,33 | 92 | | |
| (177) Mindray | | 1,9 | 0,23 | 12 | 18 | 0 | CVP | 1,86 | 0,016 | 25% | 1,39 | 2,33 | 18 | | |
| (179) Siemens | | 1,72 | 0,096 | 5,6 | 6 | 0 | CVP | 1,86 | 0,016 | 25% | 1,39 | 2,33 | 6 | | |
| Other | | | | | 3 | 0 | | | | | | | 3 | | |
| | | | | | | | 2x 157, 1x 999 | | | | | | | | |
| Sample B | | 2,58 | 0,11 | 4,1 | 164 | | | | | | | | 136 | 135 | 99 |
| (1) Abbott | | 2,66 | 0,12 | 4,7 | 28 | 1 | CVPG | 2,66 | 0,059 | 25% | 1,99 | 3,33 | 0 | | |
| (12) Beckman Coulter | | 2,36 | 0,18 | 7,8 | 17 | 0 | CVP | 2,56 | 0,022 | 25% | 1,92 | 3,2 | 17 | | |
| (63) Sysmex | | 2,6 | 0,063 | 2,4 | 92 | 0 | CVP | 2,56 | 0,022 | 25% | 1,92 | 3,2 | 92 | | |
| (177) Mindray | | 2,48 | 0,23 | 9,3 | 18 | 0 | CVP | 2,56 | 0,022 | 25% | 1,92 | 3,2 | 18 | | |
| (179) Siemens | | 2,36 | 0,16 | 6,6 | 6 | 0 | CVP | 2,56 | 0,022 | 25% | 1,92 | 3,2 | 6 | | |
| Other | | | | | 3 | 0 | | | | | | | 3 | | |
| | | | | | | | 2x 157, 1x 999 | | | | | | | | |

EQA round: KO6/24 - Blood Count

Deadline: 20.9.2024

Setup: groups - P (manufacturer of instrument); minimal size of the groups n = 5

| Test Sample Group | [unit] | RoM | SD | CV [%] | N _{tot} | N _{out} | Comparability | | | | | N _{eva} | N _{suc} | S _{rel} [%] | |
|--------------------------|-----------------------|-------|-------|-----------|------------------|------------------|----------------|-----------------|------------------|-------|-------|------------------|------------------|-------------------------|-----|
| | | | | | | | AV | U _{AV} | D _{max} | LL | UL | | | | |
| (162) Monocytes | [·10 ⁹ /L] | | | | 162 | | | | | | | 162 | 159 | 98 | |
| Sample A | | 0,433 | 0,069 | 16 | 162 | | CVP | 0,433 | 0,013 | 50% | 0,216 | 0,65 | 162 | 160 | 99 |
| (1) Abbott | | 0,394 | 0,059 | 15 | 28 | 0 | | | | | | | 28 | | |
| (12) Beckman Coulter | | 0,368 | 0,046 | 12 | 17 | 0 | | | | | | | 17 | | |
| (63) Sysmex | | 0,47 | 0,031 | 6,5 | 91 | 0 | | | | | | | 91 | | |
| (177) Mindray | | 0,332 | 0,048 | 15 | 17 | 0 | | | | | | | 17 | | |
| (179) Siemens | | 0,39 | 0,074 | 19 | 6 | 0 | | | | | | | 6 | | |
| Other | | | | | 3 | 0 | | | | | | | 3 | | |
| | | | | | | | 2x 157, 1x 999 | | | | | | | | |
| Sample B | | 0,334 | 0,045 | 14 | 162 | | CVP | 0,334 | 0,009 | 50% | 0,167 | 0,501 | 162 | 159 | 98 |
| (1) Abbott | | 0,314 | 0,037 | 12 | 28 | 0 | | | | | | | 28 | | |
| (12) Beckman Coulter | | 0,306 | 0,026 | 8,5 | 17 | 0 | | | | | | | 17 | | |
| (63) Sysmex | | 0,356 | 0,025 | 7 | 91 | 0 | | | | | | | 91 | | |
| (177) Mindray | | 0,271 | 0,069 | 25 | 17 | 0 | | | | | | | 17 | | |
| (179) Siemens | | 0,245 | 0,052 | 21 | 6 | 0 | | | | | | | 6 | | |
| Other | | | | | 3 | 0 | | | | | | | 3 | | |
| | | | | | | | 2x 157, 1x 999 | | | | | | | | |
| (163) Eosinophils | [·10 ⁹ /L] | | | | 161 | | | | | | | 161 | 150 | 93 | |
| Sample A | | 0,124 | 0,022 | 17 | 161 | | CVP | 0,124 | 0,004 | 50% | 0,062 | 0,186 | 161 | 153 | 95 |
| (1) Abbott | | 0,109 | 0,033 | 30 | 28 | 0 | | | | | | | 28 | | |
| (12) Beckman Coulter | | 0,117 | 0,024 | 20 | 17 | 0 | | | | | | | 17 | | |
| (63) Sysmex | | 0,126 | 0,016 | 13 | 91 | 0 | | | | | | | 91 | | |
| (177) Mindray | | 0,141 | 0,021 | 15 | 17 | 0 | | | | | | | 17 | | |
| (179) Siemens | | 0,11 | 0,015 | 13 | 6 | 0 | | | | | | | 6 | | |
| Other | | | | | 2 | 0 | | | | | | | 2 | | |
| | | | | | | | 2x 157 | | | | | | | | |
| Sample B | | 0,116 | 0,018 | 15 | 161 | | CVP | 0,116 | 0,003 | 50% | 0,058 | 0,174 | 161 | 155 | 96 |
| (1) Abbott | | 0,108 | 0,02 | 19 | 28 | 0 | | | | | | | 28 | | |
| (12) Beckman Coulter | | 0,116 | 0,022 | 19 | 17 | 0 | | | | | | | 17 | | |
| (63) Sysmex | | 0,119 | 0,015 | 12 | 91 | 0 | | | | | | | 91 | | |
| (177) Mindray | | 0,123 | 0,019 | 16 | 17 | 0 | | | | | | | 17 | | |
| (179) Siemens | | 0,095 | 0,007 | 7,8 | 6 | 0 | | | | | | | 6 | | |
| Other | | | | | 2 | 0 | | | | | | | 2 | | |
| | | | | | | | 2x 157 | | | | | | | | |
| (164) Basophiles | [·10 ⁹ /L] | | | | 162 | | | | | | | 162 | 157 | 97 | |
| Sample A | | 0,07 | 0,042 | 60 | 162 | | CVP | 0,07 | 0,008 | asym. | 0 | 0,162 | 162 | 157 | 97 |
| (1) Abbott | | 0,068 | 0,062 | 91 | 28 | 0 | | | | | | | 28 | | |
| (12) Beckman Coulter | | 0,026 | 0,033 | 130 | 17 | 0 | | | | | | | 17 | | |
| (63) Sysmex | | 0,079 | 0,027 | 34 | 91 | 0 | | | | | | | 91 | | |
| (177) Mindray | | 0,04 | 0,022 | 54 | 18 | 0 | | | | | | | 18 | | |
| (179) Siemens | | 0,07 | 0,015 | 21 | 6 | 0 | | | | | | | 6 | | |
| Other | | | | | 2 | 0 | | | | | | | 2 | | |
| | | | | | | | 2x 157 | | | | | | | | |
| Sample B | | 0,03 | 0,023 | 76 | 162 | | CVP | 0,03 | 0,004 | asym. | 0 | 0,155 | 162 | 162 | 100 |
| (1) Abbott | | 0,047 | 0,049 | 100 | 28 | 0 | | | | | | | 28 | | |
| (12) Beckman Coulter | | 0,016 | 0,021 | 130 | 17 | 0 | | | | | | | 17 | | |
| (63) Sysmex | | 0,033 | 0,016 | 47 | 91 | 0 | | | | | | | 91 | | |
| (177) Mindray | | 0,017 | 0,014 | 83 | 18 | 0 | | | | | | | 18 | | |
| (179) Siemens | | 0,03 | 0,015 | 49 | 6 | 0 | | | | | | | 6 | | |
| Other | | | | | 2 | 0 | | | | | | | 2 | | |
| | | | | | | | 2x 157 | | | | | | | | |