

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of groups n = 5

EQA round: DA3/18 - Differential Count - Automatic

Dead line: 07.09.2018

| | | |
|--|--|--|
| RoM = robust average | AV = assigned value | Dmax = acceptable percent difference |
| SD = standard deviation | CRV = certified reference value | LL = lower limit |
| CV = coefficient of variation | RV = reference value | UL = upper limit |
| Ntot = total number of participants | CVE = consensus value from experts | Neva = number of evaluated participants |
| Nout = number of results excluded before calculation | CVP = consensus value from all participants | Nsuc = number of successful participants |
| | CVPG = consensus value from participants groups | Srel = success (relative) |
| | U _{AV} = expanded uncertainty of the assigned value (k = 2) | |

| Test | [unit] | | | | | | Comparability | | | | | | | | |
|--|--------------|-------|-------|--------|------------------|------------------|---------------|-----------------|------------------|------|-------|------------------|------------------|------------------|-----|
| | | RoM | SD | CV [%] | N _{tot} | N _{out} | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} | |
| (130) WBC | | | | | 172 | | | | | | | 172 | 167 | 97% | |
| — Samples and groups | f.10(exp9)/L | | | | | | | | | | | | | | |
| Sample A | | 5,60 | 0,21 | 3,8 | 172 | CVP | 5,6 | 0,040 | 15% | 4,76 | 6,44 | 172 | 170 | 99% | |
| (1) Abbott | | 5,71 | 0,16 | 2,7 | 15 | 0 | | | | | | 15 | | | |
| (12) Beckman Coulter | | 5,43 | 0,29 | 5,4 | 17 | 0 | | | | | | 17 | | | |
| (63) Sysmex | | 5,66 | 0,15 | 2,6 | 108 | 0 | | | | | | 108 | | | |
| (157) Nihon Kohden | | 5,45 | 0,22 | 4,1 | 7 | 0 | | | | | | 7 | | | |
| (177) MINDRAY | | 5,50 | 0,36 | 6,5 | 8 | 0 | | | | | | 8 | | | |
| (179) Siemens (Bayer) | | 5,23 | 0,40 | 7,7 | 17 | 0 | | | | | | 17 | | | |
| Sample B | | 5,16 | 0,20 | 3,8 | 172 | CVP | 5,16 | 0,037 | 15% | 4,38 | 5,94 | 172 | 169 | 98% | |
| (1) Abbott | | 5,11 | 0,15 | 2,9 | 15 | 0 | | | | | | 15 | | | |
| (12) Beckman Coulter | | 5,14 | 0,26 | 5,0 | 17 | 0 | | | | | | 17 | | | |
| (63) Sysmex | | 5,21 | 0,14 | 2,7 | 108 | 0 | | | | | | 108 | | | |
| (157) Nihon Kohden | | 4,98 | 0,19 | 3,7 | 7 | 0 | | | | | | 7 | | | |
| (177) MINDRAY | | 5,10 | 0,31 | 6,1 | 8 | 0 | | | | | | 8 | | | |
| (179) Siemens (Bayer) | | 4,92 | 0,42 | 8,6 | 17 | 0 | | | | | | 17 | | | |
| (160) Neutrophiles | | | | | 172 | | | | | | | 157 | 153 | 97% | |
| — Samples and groups | f.10(exp9)/L | | | | | | | | | | | | | | |
| Sample A | | 3,97 | 0,20 | 5,1 | 172 | | | | | | | 157 | 155 | 99% | |
| (1) Abbott; (765) Abbott CELL-DYN Ruby | | 3,80 | 0,13 | 3,4 | 13 | 0 | CVPG | 3,8 | 0,087 | 25% | 2,85 | 4,75 | 0 | | |
| (12) Beckman Coulter | | 3,98 | 0,24 | 6,0 | 17 | 0 | CVP | 3,99 | 0,036 | 25% | 2,99 | 4,99 | 17 | | |
| (63) Sysmex | | 4,04 | 0,11 | 2,8 | 108 | 0 | CVP | 3,99 | 0,036 | 25% | 2,99 | 4,99 | 108 | | |
| (157) Nihon Kohden | | 3,53 | 0,19 | 5,5 | 7 | 0 | CVP | 3,99 | 0,036 | 25% | 2,99 | 4,99 | 7 | | |
| (177) MINDRAY | | 3,80 | 0,61 | 16 | 8 | 0 | CVP | 3,99 | 0,036 | 25% | 2,99 | 4,99 | 8 | | |
| (179) Siemens (Bayer) | | 3,81 | 0,25 | 6,6 | 17 | 0 | CVP | 3,99 | 0,036 | 25% | 2,99 | 4,99 | 17 | | |
| Other | | | | | 2 | 0 | | | | | | 0 | | | |
| | | | | | | | 2x 1/707 | | | | | | | | |
| Sample B | | 2,65 | 0,18 | 6,7 | 172 | | | | | | | 157 | 153 | 97% | |
| (1) Abbott; (765) Abbott CELL-DYN Ruby | | 1,78 | 0,15 | 8,5 | 13 | 0 | CVPG | 1,78 | 0,10 | 25% | 1,33 | 2,23 | 0 | | |
| (12) Beckman Coulter | | 2,72 | 0,15 | 5,6 | 17 | 0 | CVP | 2,68 | 0,025 | 25% | 2,01 | 3,35 | 17 | | |
| (63) Sysmex | | 2,70 | 0,089 | 3,3 | 108 | 0 | CVP | 2,68 | 0,025 | 25% | 2,01 | 3,35 | 108 | | |
| (157) Nihon Kohden | | 2,07 | 0,052 | 2,5 | 7 | 0 | CVP | 2,68 | 0,025 | 25% | 2,01 | 3,35 | 7 | | |
| (177) MINDRAY | | 2,65 | 0,43 | 16 | 8 | 0 | CVP | 2,68 | 0,025 | 25% | 2,01 | 3,35 | 8 | | |
| (179) Siemens (Bayer) | | 2,63 | 0,29 | 11 | 17 | 0 | CVP | 2,68 | 0,025 | 25% | 2,01 | 3,35 | 17 | | |
| Other | | | | | 2 | 0 | | | | | | 0 | | | |
| | | | | | | | 2x 1/707 | | | | | | | | |
| (161) Lymphocytes | | | | | 172 | | | | | | | 157 | 144 | 92% | |
| — Samples and groups | f.10(exp9)/L | | | | | | | | | | | | | | |
| Sample A | | 0,976 | 0,079 | 8,0 | 172 | | | | | | | 157 | 147 | 94% | |
| (1) Abbott; (765) Abbott CELL-DYN Ruby | | 1,26 | 0,12 | 9,5 | 13 | 0 | CVPG | 1,26 | 0,082 | 25% | 0,945 | 1,58 | 0 | | |
| (12) Beckman Coulter | | 0,904 | 0,073 | 8,0 | 17 | 1 | CVP | 0,962 | 0,012 | 25% | 0,721 | 1,21 | 17 | | |
| (63) Sysmex | | 0,965 | 0,045 | 4,6 | 108 | 1 | CVP | 0,962 | 0,012 | 25% | 0,721 | 1,21 | 108 | | |
| (157) Nihon Kohden | | 0,965 | 0,096 | 10 | 7 | 0 | CVP | 0,962 | 0,012 | 25% | 0,721 | 1,21 | 7 | | |
| (177) MINDRAY | | 1,09 | 0,19 | 18 | 8 | 0 | CVP | 0,962 | 0,012 | 25% | 0,721 | 1,21 | 8 | | |
| (179) Siemens (Bayer) | | 0,997 | 0,21 | 21 | 17 | 6 | CVP | 0,962 | 0,012 | 25% | 0,721 | 1,21 | 17 | | |
| Other | | | | | 2 | 0 | | | | | | 0 | | | |
| | | | | | | | 2x 1/707 | | | | | | | | |
| Sample B | | 1,80 | 0,12 | 6,5 | 172 | | | | | | | 157 | 150 | 96% | |
| (1) Abbott; (765) Abbott CELL-DYN Ruby | | 2,60 | 0,24 | 9,1 | 13 | 0 | CVPG | 2,6 | 0,16 | 25% | 1,95 | 3,25 | 0 | | |
| (12) Beckman Coulter | | 1,77 | 0,12 | 6,8 | 17 | 0 | CVP | 1,78 | 0,018 | 25% | 1,33 | 2,23 | 17 | | |
| (63) Sysmex | | 1,79 | 0,066 | 3,7 | 108 | 0 | CVP | 1,78 | 0,018 | 25% | 1,33 | 2,23 | 108 | | |
| (157) Nihon Kohden | | 2,00 | 0,14 | 7,1 | 7 | 0 | CVP | 1,78 | 0,018 | 25% | 1,33 | 2,23 | 7 | | |
| (177) MINDRAY | | 1,84 | 0,082 | 4,4 | 8 | 0 | CVP | 1,78 | 0,018 | 25% | 1,33 | 2,23 | 8 | | |
| (179) Siemens (Bayer) | | 1,59 | 0,34 | 22 | 17 | 0 | CVP | 1,78 | 0,018 | 25% | 1,33 | 2,23 | 17 | | |
| Other | | | | | 2 | 0 | | | | | | 0 | | | |
| | | | | | | | 2x 1/707 | | | | | | | | |
| (162) Monocytes | | | | | 172 | | | | | | | 172 | 171 | 99% | |
| — Samples and groups | f.10(exp9)/L | | | | | | | | | | | | | | |
| Sample A | | 0,520 | 0,072 | 14 | 172 | | CVP | 0,52 | 0,013 | 50% | 0,26 | 0,78 | 172 | 171 | 99% |
| (1) Abbott | | 0,522 | 0,067 | 13 | 15 | 0 | | | | | | 15 | | | |
| (12) Beckman Coulter | | 0,474 | 0,044 | 9,2 | 17 | 0 | | | | | | 17 | | | |
| (63) Sysmex | | 0,544 | 0,04 | 7,3 | 108 | 0 | | | | | | 108 | | | |
| (157) Nihon Kohden | | 0,593 | 0,019 | 3,1 | 7 | 0 | | | | | | 7 | | | |
| (177) MINDRAY | | 0,450 | 0,18 | 40 | 8 | 0 | | | | | | 8 | | | |

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of groups n = 5

EQA round: DA3/18 - Differential Count - Automatic

Dead line: 07.09.2018

| Test | [unit] | RoM | SD | CV [%] | N _{tot} | N _{out} | Comparability | | | | | | | |
|---|---------------|-------|-------|--------|------------------|------------------|---------------|-----------------|------------------|-------|-------|------------------|------------------|------------------|
| | | | | | | | AV | U _{AV} | D _{max} | LL | UL | N _{eva} | N _{suc} | S _{rel} |
| (162) Monocytes | | | | | 172 | | | | | | | 172 | 171 | 99% |
| Samples and groups | f.10(exp9)/L] | | | | | | | | | | | | | |
| Sample A | | 0,520 | 0,072 | 14 | 172 | | | | | | | 172 | 171 | 99% |
| (179) Siemens (Bayer) | | 0,391 | 0,058 | 15 | 17 | 0 | CVP | 0,52 | 0,013 | 50% | 0,26 | 0,78 | | |
| Sample B | | 0,490 | 0,075 | 15 | 172 | | | | | | | 172 | 171 | 99% |
| (1) Abbott | | 0,457 | 0,076 | 17 | 15 | 0 | | | | | | | | |
| (12) Beckman Coulter | | 0,447 | 0,054 | 12 | 17 | 0 | | | | | | | | |
| (63) Sysmex | | 0,521 | 0,044 | 8,4 | 108 | 0 | | | | | | 108 | | |
| (157) Nihon Kohden | | 0,525 | 0,052 | 9,9 | 7 | 0 | | | | | | | | |
| (177) MINDRAY | | 0,400 | 0,059 | 15 | 8 | 0 | | | | | | | | |
| (179) Siemens (Bayer) | | 0,405 | 0,071 | 18 | 17 | 0 | | | | | | | | |
| (163) Eosinophiles | | | | | 172 | | | | | | | 167 | 156 | 93% |
| Samples and groups | f.10(exp9)/L] | | | | | | | | | | | | | |
| Sample A | | 0,079 | 0,017 | 21 | 172 | | | | | | | 167 | 160 | 96% |
| (1) Abbott | | 0,068 | 0,012 | 17 | 15 | 0 | CVP | 0,078 | ,0030 | asym. | 0 | 0,168 | | |
| (12) Beckman Coulter | | 0,094 | 0,019 | 20 | 17 | 0 | CVP | 0,078 | ,0030 | asym. | 0 | 0,168 | | |
| (63) Sysmex | | 0,076 | 0,012 | 16 | 108 | 0 | CVP | 0,078 | ,0030 | asym. | 0 | 0,168 | | |
| (157) Nihon Kohden | | 0,255 | 0,22 | 84 | 7 | 0 | CVP | 0,078 | ,0030 | asym. | 0 | 0,168 | | |
| (177) MINDRAY; (768) MINDRAY BC 5xxx series | | 0,290 | 0,03 | 10 | 5 | 0 | CVPG | 0,29 | 0,084 | 50% | 0,145 | 0,435 | | |
| (179) Siemens (Bayer) | | 0,075 | 0,017 | 23 | 17 | 0 | CVP | 0,078 | ,0030 | asym. | 0 | 0,168 | | |
| Other | | | | | 3 | 0 | | | | | | | | |
| | | | | | | | | | | | | | | |
| Sample B | | 0,159 | 0,029 | 19 | 172 | | | | | | | 167 | 158 | 95% |
| (1) Abbott | | 0,128 | 0,026 | 20 | 15 | 0 | CVP | 0,157 | ,0055 | 50% | 0,078 | 0,236 | | |
| (12) Beckman Coulter | | 0,155 | 0,051 | 33 | 17 | 0 | CVP | 0,157 | ,0055 | 50% | 0,078 | 0,236 | | |
| (63) Sysmex | | 0,164 | 0,015 | 8,9 | 108 | 0 | CVP | 0,157 | ,0055 | 50% | 0,078 | 0,236 | | |
| (157) Nihon Kohden | | 0,300 | 0,19 | 64 | 7 | 0 | CVP | 0,157 | ,0055 | 50% | 0,078 | 0,236 | | |
| (177) MINDRAY; (768) MINDRAY BC 5xxx series | | 0,265 | 0,11 | 42 | 5 | 0 | CVPG | 0,265 | 0,31 | 50% | 0,132 | 0,398 | | |
| (179) Siemens (Bayer) | | 0,095 | 0,021 | 22 | 17 | 0 | CVP | 0,157 | ,0055 | 50% | 0,078 | 0,236 | | |
| Other | | | | | 3 | 0 | | | | | | | | |
| | | | | | | | | | | | | | | |
| (164) Basophiles | | | | | 172 | | | | | | | 172 | 169 | 98% |
| Samples and groups | f.10(exp9)/L] | | | | | | | | | | | | | |
| Sample A | | 0,032 | 0,014 | 44 | 172 | | | | | | | 172 | 172 | 100% |
| (1) Abbott | | 0,069 | 0,019 | 27 | 15 | 0 | | | | | | | | |
| (12) Beckman Coulter | | 0,012 | 0,02 | 160 | 17 | 0 | | | | | | | | |
| (63) Sysmex | | 0,031 | 0,009 | 31 | 108 | 0 | | | | | | 108 | | |
| (157) Nihon Kohden | | 0,065 | 0,052 | 80 | 7 | 0 | | | | | | | | |
| (177) MINDRAY | | 0,025 | 0,007 | 30 | 8 | 0 | | | | | | | | |
| (179) Siemens (Bayer) | | 0,034 | 0,005 | 17 | 17 | 0 | | | | | | | | |
| Sample B | | 0,040 | 0,018 | 44 | 172 | | | | | | | 172 | 169 | 98% |
| (1) Abbott | | 0,132 | 0,019 | 15 | 15 | 0 | | | | | | | | |
| (12) Beckman Coulter | | 0,003 | 0,005 | 180 | 17 | 0 | | | | | | | | |
| (63) Sysmex | | 0,041 | 0,012 | 29 | 108 | 0 | | | | | | 108 | | |
| (157) Nihon Kohden | | 0,065 | 0,052 | 80 | 7 | 0 | | | | | | | | |
| (177) MINDRAY | | 0,025 | 0,007 | 30 | 8 | 0 | | | | | | | | |
| (179) Siemens (Bayer) | | 0,044 | 0,011 | 26 | 17 | 0 | | | | | | | | |

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End of report

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