

EQA round: HKG1/24 - Haemocoagulation Tests

Deadline: 29.3.2024

Setup: groups - M (measurement principle); 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 | | | | |
| (177) Antithrombin | [%] | | | | 124 | | | | | | | 124 | 121 | 98 | |
| Sample A | | 102 | 4,6 | 4,6 | 124 | | CVP | 102 | 1 | 18% | 83,6 | 121 | 124 | 124 | 100 |
| (4) Chromogenous substrat | | 102 | 4,7 | 4,6 | 120 | 0 | | | | | | | 120 | | |
| Other | | | | | 4 | 0 | | | | | | | 4 | | |
| | | | | | | | 4x 1 | | | | | | | | |
| Sample B | | 39,5 | 3,6 | 9,1 | 124 | | CVP | 39,5 | 0,79 | 25% | 29,6 | 49,4 | 124 | 121 | 98 |
| (4) Chromogenous substrat | | 39,6 | 3,6 | 9,1 | 120 | 0 | | | | | | | 120 | | |
| Other | | | | | 4 | 0 | | | | | | | 4 | | |
| | | | | | | | 4x 1 | | | | | | | | |
| (170) APTT - ratio | [-] | | | | 211 | | | | | | | 200 | 193 | 97 | |
| Sample A | | 1,1 | 0,22 | 20 | 211 | | | | | | | 200 | 196 | 98 | |
| (0) Not specified; (240) Siemens (Dade) Actin FS | | 0,912 | 0,038 | 4,1 | 58 | 0 | CVPG | 0,912 | 0,012 | 20% | 0,729 | 1,1 | 58 | | |
| (0) Not specified; (241) Siemens (Dade) Actin FSL | | 1,01 | 0,054 | 5,3 | 14 | 0 | CVPG | 1,01 | 0,035 | 20% | 0,808 | 1,22 | 14 | | |
| (0) Not specified; (242) Siemens (Dade) Pathromtin SL | | 1,29 | 0,068 | 5,3 | 68 | 0 | CVPG | 1,29 | 0,02 | 20% | 1,03 | 1,55 | 68 | | |
| (0) Not specified; (246) Mindray APTT Reagent | | 1,98 | 0,28 | 14 | 12 | 0 | CVPG | 1,98 | 0,2 | 20% | 1,58 | 2,38 | 12 | | |
| (0) Not specified; (253) IL APTT-SP | | 0,912 | 0,032 | 3,6 | 21 | 0 | CVPG | 0,912 | 0,017 | 20% | 0,729 | 1,1 | 21 | | |
| (0) Not specified; (256) IL SynthASil | | 1,24 | 0,074 | 6 | 9 | 0 | CVPG | 1,24 | 0,092 | 20% | 0,992 | 1,49 | 9 | | |
| (0) Not specified; (260) Stago PTT Automate | | 1,01 | 0,038 | 3,7 | 18 | 0 | CVPG | 1,01 | 0,022 | 20% | 0,808 | 1,22 | 18 | | |
| Other | | | | | 11 | 0 | | | | | | | 0 | | |
| | | | | | | | 2x 0/257, 2x 0/259, 1x 0/265, 3x 0/266, 2x 0/269, 1x 0/999 | | | | | | | | |
| Sample B | | 1,81 | 0,3 | 17 | 211 | | | | | | | 200 | 195 | 98 | |
| (0) Not specified; (240) Siemens (Dade) Actin FS | | 1,62 | 0,13 | 8,2 | 58 | 0 | CVPG | 1,62 | 0,043 | 20% | 1,29 | 1,95 | 58 | | |
| (0) Not specified; (241) Siemens (Dade) Actin FSL | | 1,75 | 0,15 | 8,6 | 14 | 0 | CVPG | 1,75 | 0,099 | 20% | 1,4 | 2,1 | 14 | | |
| (0) Not specified; (242) Siemens (Dade) Pathromtin SL | | 2,06 | 0,12 | 5,6 | 68 | 0 | CVPG | 2,06 | 0,034 | 20% | 1,64 | 2,48 | 68 | | |
| (0) Not specified; (246) Mindray APTT Reagent | | 2,91 | 0,45 | 15 | 12 | 0 | CVPG | 2,91 | 0,32 | 20% | 2,32 | 3,5 | 12 | | |
| (0) Not specified; (253) IL APTT-SP | | 1,5 | 0,057 | 3,8 | 21 | 0 | CVPG | 1,5 | 0,03 | 20% | 1,2 | 1,8 | 21 | | |
| (0) Not specified; (256) IL SynthASil | | 1,47 | 0,037 | 2,5 | 9 | 0 | CVPG | 1,47 | 0,046 | 20% | 1,17 | 1,77 | 9 | | |
| (0) Not specified; (260) Stago PTT Automate | | 1,75 | 0,07 | 4 | 18 | 0 | CVPG | 1,75 | 0,041 | 20% | 1,4 | 2,1 | 18 | | |
| Other | | | | | 11 | 0 | | | | | | | 0 | | |
| | | | | | | | 2x 0/257, 2x 0/259, 1x 0/265, 3x 0/266, 2x 0/269, 1x 0/999 | | | | | | | | |
| (171) Fibrinogen | [g/L] | | | | 171 | | | | | | | 171 | 166 | 97 | |
| Sample A | | 3,02 | 0,21 | 7 | 171 | | CVP | 3,02 | 0,04 | 25% | 2,26 | 3,78 | 171 | 169 | 99 |
| (1) Coagulometer | | 3,02 | 0,21 | 7 | 167 | 0 | | | | | | | 167 | | |
| Other | | | | | 4 | 0 | | | | | | | 4 | | |
| | | | | | | | 4x 3 | | | | | | | | |
| Sample B | | 1,18 | 0,11 | 9,6 | 171 | | CVP | 1,18 | 0,021 | 25% | 0,885 | 1,48 | 171 | 167 | 98 |
| (1) Coagulometer | | 1,18 | 0,11 | 9,5 | 167 | 0 | | | | | | | 167 | | |
| Other | | | | | 4 | 0 | | | | | | | 4 | | |
| | | | | | | | 4x 3 | | | | | | | | |
| (172) Prothrombin test (INR) | [-] | | | | 217 | | | | | | | 217 | 213 | 98 | |
| Sample A | | 1,04 | 0,054 | 5,2 | 217 | | CVP | 1,04 | 0,009 | 20% | 0,832 | 1,25 | 217 | 217 | 100 |
| (1) Coagulometr (trom. human plac.) | | 1,04 | 0,049 | 4,7 | 142 | 0 | | | | | | | 142 | | |
| (2) Coagulometr (trom. human rec.) | | 0,991 | 0,039 | 4 | 40 | 0 | | | | | | | 40 | | |
| (3) Coagulometr (trom. rabbit br.) | | 1,06 | 0,051 | 4,8 | 35 | 0 | | | | | | | 35 | | |
| Sample B | | 1,68 | 0,15 | 8,8 | 217 | | | | | | | 217 | 213 | 98 | |
| (1) Coagulometr (trom. human plac.) | | 1,64 | 0,098 | 6 | 142 | 0 | CVP | 1,65 | 0,021 | 20% | 1,32 | 1,98 | 142 | | |
| (2) Coagulometr (trom. human rec.) | | 1,66 | 0,2 | 12 | 40 | 0 | CVP | 1,65 | 0,021 | 20% | 1,32 | 1,98 | 40 | | |
| (3) Coagulometr (trom. rabbit br.) | | 1,93 | 0,18 | 9,5 | 35 | 0 | CVPG | 1,93 | 0,076 | 20% | 1,54 | 2,32 | 35 | | |
| (179) Prothrombin test (ratio) | [-] | | | | 213 | | | | | | | 213 | 210 | 99 | |
| Sample A | | 1,03 | 0,051 | 5 | 213 | | CVP | 1,03 | 0,009 | 20% | 0,824 | 1,24 | 213 | 213 | 100 |
| (1) Coagulometr (trom. human plac.) | | 1,04 | 0,049 | 4,7 | 138 | 0 | | | | | | | 138 | | |
| (2) Coagulometr (trom. human rec.) | | 0,989 | 0,033 | 3,3 | 40 | 0 | | | | | | | 40 | | |
| (3) Coagulometr (trom. rabbit br.) | | 1,06 | 0,049 | 4,6 | 35 | 0 | | | | | | | 35 | | |
| Sample B | | 1,63 | 0,14 | 8,8 | 213 | | | | | | | 213 | 210 | 99 | |
| (1) Coagulometr (trom. human plac.) | | 1,59 | 0,097 | 6,1 | 138 | 0 | CVP | 1,61 | 0,022 | 20% | 1,28 | 1,94 | 138 | | |
| (2) Coagulometr (trom. human rec.) | | 1,64 | 0,18 | 11 | 40 | 0 | CVP | 1,61 | 0,022 | 20% | 1,28 | 1,94 | 40 | | |
| (3) Coagulometr (trom. rabbit br.) | | 1,82 | 0,18 | 10 | 35 | 0 | CVPG | 1,82 | 0,076 | 20% | 1,45 | 2,19 | 35 | | |
| (173) Thrombin time (time) | [s] | | | | 118 | | | | | | | 107 | 103 | 96 | |
| Sample A | | 16,5 | 1,2 | 7,2 | 118 | | | | | | | 107 | 106 | 99 | |
| (3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago | | 18,6 | 0,33 | 1,8 | 12 | 0 | CVPG | 18,6 | 0,24 | 15% | 15,8 | 21,4 | 12 | | |

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| 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 | | | | |
| (3) Thrombin units: 1,5 IU/mL (NIH); (149) Siemens (Dade, BN, Dimension) | | 19,4 | 1,3 | 6,5 | 5 | 0 | CVPG | 19,4 | 3,6 | 15% | 16,4 | 22,4 | 5 | | |
| (5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (Dade, BN, Dimension) | | 16,2 | 0,56 | 3,5 | 67 | 0 | CVPG | 16,2 | 0,17 | 15% | 13,7 | 18,7 | 67 | | |
| (6) Thrombin units: 3 IU/mL (NIH); (38) Werfen (IL) | | 16,9 | 0,7 | 4,1 | 16 | 0 | CVPG | 16,9 | 0,43 | 15% | 14,3 | 19,5 | 16 | | |
| (8) Počet trombin. jednotek: 8 IU/mL (NIH); (177) Mindray | | 14,4 | 0,59 | 4,1 | 7 | 0 | CVPG | 14,4 | 0,58 | 15% | 12,2 | 16,6 | 7 | | |
| Other | | | | | 11 | 0 | | | | | | | 0 | | |
| | | | | | | | | 2x 1/149, 1x 1/179, 2x 2/193, 2x 5/179, 1x 6/46, 1x 6/177, 1x 7/38, 1x 7/175 | | | | | | | |
| Sample B | | 18,1 | 3,7 | 21 | 118 | | | | | | | | 107 | 103 | 96 |
| (3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago | | 17,8 | 0,19 | 1,1 | 12 | 0 | CVPG | 17,8 | 0,14 | 15% | 15,1 | 20,5 | 12 | | |
| (3) Thrombin units: 1,5 IU/mL (NIH); (149) Siemens (Dade, BN, Dimension) | | 20,4 | 1,8 | 8,7 | 5 | 0 | CVPG | 20,4 | 5 | 15% | 17,3 | 23,5 | 5 | | |
| (5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (Dade, BN, Dimension) | | 15,9 | 0,73 | 4,6 | 67 | 0 | CVPG | 15,9 | 0,22 | 15% | 13,5 | 18,3 | 67 | | |
| (6) Thrombin units: 3 IU/mL (NIH); (38) Werfen (IL) | | 26,5 | 1,3 | 5,1 | 16 | 0 | CVPG | 26,5 | 0,82 | 15% | 22,5 | 30,5 | 16 | | |
| (8) Počet trombin. jednotek: 8 IU/mL (NIH); (177) Mindray | | 23,6 | 2 | 8,5 | 7 | 0 | CVPG | 23,6 | 1,9 | 15% | 20 | 27,2 | 7 | | |
| Other | | | | | 11 | 0 | | | | | | | 0 | | |
| | | | | | | | | 2x 1/149, 1x 1/179, 2x 2/193, 2x 5/179, 1x 6/46, 1x 6/177, 1x 7/38, 1x 7/175 | | | | | | | |
| (174) Thrombin time (ratio) | [-] | | | | 99 | | | | | | | | 92 | 91 | 99 |
| Sample A | | 1,01 | 0,093 | 9,3 | 99 | | | | | | | | 92 | 92 | 100 |
| (3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago | | 1,08 | 0,056 | 5,2 | 12 | 0 | CVPG | 1,08 | 0,039 | 20% | 0,864 | 1,3 | 12 | | |
| (3) Thrombin units: 1,5 IU/mL (NIH); (149) Siemens (Dade, BN, Dimension) | | 1,08 | 0,03 | 2,8 | 5 | 0 | CVPG | 1,08 | 0,084 | 20% | 0,864 | 1,3 | 5 | | |
| (5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (Dade, BN, Dimension) | | 0,958 | 0,058 | 6,1 | 53 | 0 | CVPG | 0,958 | 0,02 | 20% | 0,766 | 1,15 | 53 | | |
| (6) Thrombin units: 3 IU/mL (NIH); (38) Werfen (IL) | | 1,11 | 0,05 | 4,5 | 15 | 0 | CVPG | 1,11 | 0,031 | 20% | 0,888 | 1,34 | 15 | | |
| (8) Počet trombin. jednotek: 8 IU/mL (NIH); (177) Mindray | | 0,96 | 0,03 | 3,1 | 7 | 0 | CVPG | 0,96 | 0,029 | 20% | 0,768 | 1,16 | 7 | | |
| Other | | | | | 7 | 0 | | | | | | | 0 | | |
| | | | | | | | | 2x 2/193, 1x 6/46, 1x 6/51, 1x 6/177, 1x 7/38, 1x 7/175 | | | | | | | |
| Sample B | | 1,15 | 0,32 | 28 | 99 | | | | | | | | 92 | 91 | 99 |
| (3) Thrombin units: 1,5 IU/mL (NIH); (94) Stago | | 1,03 | 0,044 | 4,3 | 12 | 0 | CVPG | 1,03 | 0,031 | 20% | 0,824 | 1,24 | 12 | | |
| (3) Thrombin units: 1,5 IU/mL (NIH); (149) Siemens (Dade, BN, Dimension) | | 1,16 | 0,059 | 5,1 | 5 | 0 | CVPG | 1,16 | 0,17 | 20% | 0,928 | 1,4 | 5 | | |
| (5) Thrombin units: 2,5 IU/mL (NIH); (149) Siemens (Dade, BN, Dimension) | | 0,953 | 0,061 | 6,4 | 53 | 0 | CVPG | 0,953 | 0,02 | 20% | 0,762 | 1,15 | 53 | | |
| (6) Thrombin units: 3 IU/mL (NIH); (38) Werfen (IL) | | 1,73 | 0,092 | 5,3 | 15 | 0 | CVPG | 1,73 | 0,058 | 20% | 1,38 | 2,08 | 15 | | |
| (8) Počet trombin. jednotek: 8 IU/mL (NIH); (177) Mindray | | 1,61 | 0,082 | 5,1 | 7 | 0 | CVPG | 1,61 | 0,079 | 20% | 1,28 | 1,94 | 7 | | |
| Other | | | | | 7 | 0 | | | | | | | 0 | | |
| | | | | | | | | 2x 2/193, 1x 6/46, 1x 6/51, 1x 6/177, 1x 7/38, 1x 7/175 | | | | | | | |