

## Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of the groups n = 5

## EQA round: HS2/21 - Haemocoagulation Special

Deadline: 19.11.2021

|                                                      |                                                                      |                                          |
|------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------|
| 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 the 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 <sub>AV</sub> = expanded uncertainty of the assigned value (k = 2) |                                          |

| Test                                      | [unit] | Comparability |     |        |                  |                  |      |                 |                  |      |      |                  |                  |                                       |
|-------------------------------------------|--------|---------------|-----|--------|------------------|------------------|------|-----------------|------------------|------|------|------------------|------------------|---------------------------------------|
|                                           |        | RoM           | SD  | CV [%] | N <sub>tot</sub> | N <sub>out</sub> | AV   | U <sub>AV</sub> | D <sub>max</sub> | LL   | UL   | N <sub>eva</sub> | N <sub>suc</sub> | S <sub>rel</sub>                      |
| <b>Set 1</b>                              |        |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  |                                       |
| <b>(479) Factor VIII</b>                  |        |               |     |        | 100              |                  |      |                 |                  |      |      | 100              | 98               | 98%                                   |
| Samples and groups                        | [%]    |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  |                                       |
| <b>Sample A1</b>                          |        | 70,1          | 6,3 | 9,0    | 100              | CVP              | 70,1 | 1,5             | 25%              | 52,5 | 87,7 | 100              | 98               | 98%                                   |
| (38) IL                                   |        | 67,1          | 8,5 | 13     | 15               | 0                |      |                 |                  |      |      | 15               |                  |                                       |
| (63) Sysmex                               |        | 70,0          | 6,0 | 8,6    | 61               | 0                |      |                 |                  |      |      | 61               |                  |                                       |
| (94) Stago                                |        | 72,4          | 3,9 | 5,4    | 10               | 0                |      |                 |                  |      |      | 10               |                  |                                       |
| (149) Siemens (Dade, BN, Dimension)       |        | 67,5          | 5,3 | 7,8    | 6                | 0                |      |                 |                  |      |      | 6                |                  |                                       |
| Other                                     |        |               |     |        | 8                | 0                |      |                 |                  |      |      | 8                |                  |                                       |
|                                           |        |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  | 1x 12, 2x 175, 1x 177, 3x 179, 1x 999 |
| <b>(480) von Willebrand f. (activity)</b> |        |               |     |        | 27               |                  |      |                 |                  |      |      | 27               | 27               | 100%                                  |
| Samples and groups                        | [%]    |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  |                                       |
| <b>Sample A1</b>                          |        | 30,7          | 3,2 | 10     | 27               | CVP              | 30,7 | 1,5             | 30%              | 21,4 | 40   | 27               | 27               | 100%                                  |
| (38) IL                                   |        | 29,5          | 3,7 | 13     | 6                | 0                |      |                 |                  |      |      | 6                |                  |                                       |
| (63) Sysmex                               |        | 31,3          | 1,8 | 5,9    | 12               | 0                |      |                 |                  |      |      | 12               |                  |                                       |
| Other                                     |        |               |     |        | 9                | 0                |      |                 |                  |      |      | 9                |                  |                                       |
|                                           |        |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  | 1x 0, 2x 94, 4x 149, 1x 162, 1x 179   |
| <b>(481) von Willebrand f. (antigen)</b>  |        |               |     |        | 28               |                  |      |                 |                  |      |      | 28               | 27               | 96%                                   |
| Samples and groups                        | [%]    |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  |                                       |
| <b>Sample A1</b>                          |        | 47,1          | 3,7 | 7,8    | 28               | CVP              | 47,1 | 1,7             | 20%              | 37,6 | 56,6 | 28               | 27               | 96%                                   |
| (38) IL                                   |        | 49,0          | 1,6 | 3,2    | 7                | 0                |      |                 |                  |      |      | 7                |                  |                                       |
| (63) Sysmex                               |        | 45,5          | 2,5 | 5,5    | 11               | 0                |      |                 |                  |      |      | 11               |                  |                                       |
| Other                                     |        |               |     |        | 10               | 0                |      |                 |                  |      |      | 10               |                  |                                       |
|                                           |        |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  | 1x 0, 1x 15, 3x 94, 3x 149, 2x 179    |
| <b>Set 2</b>                              |        |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  |                                       |
| <b>(482) Factor IX</b>                    |        |               |     |        | 41               |                  |      |                 |                  |      |      | 41               | 40               | 98%                                   |
| Samples and groups                        | [%]    |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  |                                       |
| <b>Sample A2</b>                          |        | 120           | 9,3 | 7,7    | 41               | CVP              | 120  | 3,6             | 25%              | 90   | 150  | 41               | 40               | 98%                                   |
| (38) IL                                   |        | 117           | 18  | 16     | 8                | 0                |      |                 |                  |      |      | 8                |                  |                                       |
| (63) Sysmex                               |        | 121           | 7,3 | 6,0    | 22               | 0                |      |                 |                  |      |      | 22               |                  |                                       |
| (94) Stago                                |        | 131           | 8,9 | 6,8    | 6                | 0                |      |                 |                  |      |      | 6                |                  |                                       |
| Other                                     |        |               |     |        | 5                | 0                |      |                 |                  |      |      | 5                |                  |                                       |
|                                           |        |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  | 1x 12, 2x 149, 2x 179                 |
| <b>(483) Factor XI</b>                    |        |               |     |        | 28               |                  |      |                 |                  |      |      | 28               | 28               | 100%                                  |
| Samples and groups                        | [%]    |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  |                                       |
| <b>Sample A2</b>                          |        | 109           | 7,2 | 6,7    | 28               | CVP              | 109  | 3,3             | 25%              | 81,7 | 137  | 28               | 28               | 100%                                  |
| (38) IL                                   |        | 104           | 8,8 | 8,5    | 6                | 0                |      |                 |                  |      |      | 6                |                  |                                       |
| (63) Sysmex                               |        | 109           | 6,5 | 6,0    | 13               | 0                |      |                 |                  |      |      | 13               |                  |                                       |
| Other                                     |        |               |     |        | 9                | 0                |      |                 |                  |      |      | 9                |                  |                                       |
|                                           |        |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  | 1x 12, 4x 94, 2x 149, 2x 179          |
| <b>(484) Factor XII</b>                   |        |               |     |        | 36               |                  |      |                 |                  |      |      | 36               | 33               | 92%                                   |
| Samples and groups                        | [%]    |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  |                                       |
| <b>Sample A2</b>                          |        | 50,8          | 7,5 | 15     | 36               | CVP              | 50,8 | 3,1             | 25%              | 38,1 | 63,5 | 36               | 33               | 92%                                   |
| (38) IL                                   |        | 56,6          | 7,3 | 13     | 6                | 0                |      |                 |                  |      |      | 6                |                  |                                       |
| (63) Sysmex                               |        | 48,9          | 5,7 | 12     | 19               | 0                |      |                 |                  |      |      | 19               |                  |                                       |
| (94) Stago                                |        | 55,5          | 6,7 | 12     | 5                | 0                |      |                 |                  |      |      | 5                |                  |                                       |
| Other                                     |        |               |     |        | 6                | 0                |      |                 |                  |      |      | 6                |                  |                                       |
|                                           |        |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  | 1x 12, 2x 149, 1x 162, 2x 179         |
| <b>Set 3</b>                              |        |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  |                                       |
| <b>(485) Protein C</b>                    |        |               |     |        | 85               |                  |      |                 |                  |      |      | 85               | 82               | 96%                                   |
| Samples and groups                        | [%]    |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  |                                       |
| <b>Sample A3</b>                          |        | 46,9          | 2,4 | 5,1    | 85               | CVP              | 46,9 | 0,64            | 20%              | 37,5 | 56,3 | 85               | 82               | 96%                                   |
| (38) IL                                   |        | 45,7          | 2,6 | 5,6    | 15               | 0                |      |                 |                  |      |      | 15               |                  |                                       |
| (63) Sysmex                               |        | 46,6          | 2,1 | 4,5    | 50               | 0                |      |                 |                  |      |      | 50               |                  |                                       |
| (94) Stago                                |        | 52,5          | 8,2 | 16     | 8                | 0                |      |                 |                  |      |      | 8                |                  |                                       |
| (149) Siemens (Dade, BN, Dimension)       |        | 49,1          | 5,1 | 10     | 7                | 0                |      |                 |                  |      |      | 7                |                  |                                       |
| Other                                     |        |               |     |        | 5                | 0                |      |                 |                  |      |      | 5                |                  |                                       |
|                                           |        |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  | 1x 162, 3x 179, 1x 999                |
| <b>(486) Protein S</b>                    |        |               |     |        | 79               |                  |      |                 |                  |      |      | 79               | 79               | 100%                                  |
| Samples and groups                        | [%]    |               |     |        |                  |                  |      |                 |                  |      |      |                  |                  |                                       |
| <b>Sample A3</b>                          |        | 104           | 9,6 | 9,2    | 79               | CVP              | 104  | 2,7             | 30%              | 72,8 | 136  | 79               | 79               | 100%                                  |
| (38) IL                                   |        | 103           | 11  | 11     | 13               | 0                |      |                 |                  |      |      | 13               |                  |                                       |
| (63) Sysmex                               |        | 105           | 9,9 | 9,4    | 45               | 0                |      |                 |                  |      |      | 45               |                  |                                       |

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| Test                                   | [unit] | RoM   | SD    | CV [%] | N <sub>tot</sub> | N <sub>out</sub> | Comparability                  |                 |                  |     |       |       | N <sub>eva</sub> | N <sub>suc</sub> | S <sub>rel</sub> |
|----------------------------------------|--------|-------|-------|--------|------------------|------------------|--------------------------------|-----------------|------------------|-----|-------|-------|------------------|------------------|------------------|
|                                        |        |       |       |        |                  |                  | AV                             | U <sub>AV</sub> | D <sub>max</sub> | LL  | UL    |       |                  |                  |                  |
| <b>(486) Protein S</b>                 |        |       |       |        | 79               |                  |                                |                 |                  |     |       |       | 79               | 79               | 100%             |
| Samples and groups                     | [%]    |       |       |        |                  |                  |                                |                 |                  |     |       |       |                  |                  |                  |
| <b>Sample A3</b>                       |        | 104   | 9,6   | 9,2    | 79               |                  | CVP                            | 104             | 2,7              | 30% | 72,8  | 136   | 79               | 79               | 100%             |
| (94) Stago                             |        | 104   | 3,7   | 3,6    | 8                | 0                |                                |                 |                  |     |       |       | 8                |                  |                  |
| (149) Siemens (Dade, BN, Dimension)    |        | 105   | 19    | 18     | 7                | 0                |                                |                 |                  |     |       |       | 7                |                  |                  |
| Other                                  |        |       |       |        | 6                | 0                |                                |                 |                  |     |       |       | 6                |                  |                  |
|                                        |        |       |       |        |                  |                  | 1x 162, 1x 175, 3x 179, 1x 999 |                 |                  |     |       |       |                  |                  |                  |
| <b>(487) ProC Global (norm. ratio)</b> |        |       |       |        | 29               |                  |                                |                 |                  |     |       |       | 29               | 28               | 97%              |
| Samples and groups                     | [-]    |       |       |        |                  |                  |                                |                 |                  |     |       |       |                  |                  |                  |
| <b>Sample A3</b>                       |        | 0,548 | 0,062 | 11     | 29               |                  | CVP                            | 0,548           | 0,028            | 25% | 0,411 | 0,685 | 29               | 28               | 97%              |
| (63) Sysmex                            |        | 0,531 | 0,053 | 10     | 18               | 0                |                                |                 |                  |     |       |       | 18               |                  |                  |
| (94) Stago                             |        | 0,590 | 0,10  | 18     | 5                | 0                |                                |                 |                  |     |       |       | 5                |                  |                  |
| (149) Siemens (Dade, BN, Dimension)    |        | 0,575 | 0,052 | 9,0    | 5                | 0                |                                |                 |                  |     |       |       | 5                |                  |                  |
| Other                                  |        |       |       |        | 1                | 0                |                                |                 |                  |     |       |       | 1                |                  |                  |
|                                        |        |       |       |        |                  |                  | 1x 38                          |                 |                  |     |       |       |                  |                  |                  |
| <b>Set 4</b>                           |        |       |       |        |                  |                  |                                |                 |                  |     |       |       |                  |                  |                  |
| <b>(491) Factor II</b>                 |        |       |       |        | 32               |                  |                                |                 |                  |     |       |       | 32               | 32               | 100%             |
| Samples and groups                     | [%]    |       |       |        |                  |                  |                                |                 |                  |     |       |       |                  |                  |                  |
| <b>Sample A4</b>                       |        | 58,9  | 4,2   | 7,1    | 32               |                  | CVP                            | 58,9            | 1,8              | 25% | 44,1  | 73,7  | 32               | 32               | 100%             |
| (38) IL                                |        | 55,6  | 0,67  | 1,2    | 5                | 0                |                                |                 |                  |     |       |       | 5                |                  |                  |
| (63) Sysmex                            |        | 59,0  | 3,9   | 6,6    | 19               | 0                |                                |                 |                  |     |       |       | 19               |                  |                  |
| Other                                  |        |       |       |        | 8                | 0                |                                |                 |                  |     |       |       | 8                |                  |                  |
|                                        |        |       |       |        |                  |                  | 4x 94, 2x 149, 1x 162, 1x 179  |                 |                  |     |       |       |                  |                  |                  |
| <b>(492) Factor V</b>                  |        |       |       |        | 34               |                  |                                |                 |                  |     |       |       | 34               | 33               | 97%              |
| Samples and groups                     | [%]    |       |       |        |                  |                  |                                |                 |                  |     |       |       |                  |                  |                  |
| <b>Sample A4</b>                       |        | 69,9  | 4,9   | 7,0    | 34               |                  | CVP                            | 69,9            | 2,1              | 25% | 52,4  | 87,4  | 34               | 33               | 97%              |
| (38) IL                                |        | 66,1  | 2,9   | 4,4    | 5                | 0                |                                |                 |                  |     |       |       | 5                |                  |                  |
| (63) Sysmex                            |        | 70,5  | 4,9   | 7,0    | 20               | 0                |                                |                 |                  |     |       |       | 20               |                  |                  |
| (94) Stago                             |        | 69,0  | 4,4   | 6,4    | 5                | 0                |                                |                 |                  |     |       |       | 5                |                  |                  |
| Other                                  |        |       |       |        | 4                | 0                |                                |                 |                  |     |       |       | 4                |                  |                  |
|                                        |        |       |       |        |                  |                  | 2x 149, 1x 162, 1x 179         |                 |                  |     |       |       |                  |                  |                  |
| <b>(493) Factor VII</b>                |        |       |       |        | 37               |                  |                                |                 |                  |     |       |       | 37               | 36               | 97%              |
| Samples and groups                     | [%]    |       |       |        |                  |                  |                                |                 |                  |     |       |       |                  |                  |                  |
| <b>Sample A4</b>                       |        | 58,5  | 5,6   | 9,6    | 37               |                  | CVP                            | 58,5            | 2,3              | 25% | 43,8  | 73,2  | 37               | 36               | 97%              |
| (38) IL                                |        | 50,7  | 1,6   | 3,2    | 5                | 0                |                                |                 |                  |     |       |       | 5                |                  |                  |
| (63) Sysmex                            |        | 60,9  | 4,7   | 7,7    | 23               | 0                |                                |                 |                  |     |       |       | 23               |                  |                  |
| (94) Stago                             |        | 57,5  | 3,7   | 6,4    | 5                | 0                |                                |                 |                  |     |       |       | 5                |                  |                  |
| Other                                  |        |       |       |        | 4                | 0                |                                |                 |                  |     |       |       | 4                |                  |                  |
|                                        |        |       |       |        |                  |                  | 2x 149, 1x 162, 1x 179         |                 |                  |     |       |       |                  |                  |                  |
| <b>(494) Factor X</b>                  |        |       |       |        | 30               |                  |                                |                 |                  |     |       |       | 30               | 30               | 100%             |
| Samples and groups                     | [%]    |       |       |        |                  |                  |                                |                 |                  |     |       |       |                  |                  |                  |
| <b>Sample A4</b>                       |        | 54,5  | 5,2   | 9,5    | 30               |                  | CVP                            | 54,5            | 2,3              | 25% | 40,8  | 68,2  | 30               | 30               | 100%             |
| (38) IL                                |        | 47,3  | 3,6   | 7,5    | 5                | 0                |                                |                 |                  |     |       |       | 5                |                  |                  |
| (63) Sysmex                            |        | 56,6  | 4,2   | 7,4    | 17               | 0                |                                |                 |                  |     |       |       | 17               |                  |                  |
| Other                                  |        |       |       |        | 8                | 0                |                                |                 |                  |     |       |       | 8                |                  |                  |
|                                        |        |       |       |        |                  |                  | 4x 94, 2x 149, 1x 162, 1x 179  |                 |                  |     |       |       |                  |                  |                  |

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Printed: 01.12.2021