

## EQA round: AP2/23 - Antithrombotic Agents

Deadline: 15.9.2023

Setup: groups - manufacturer of kit; minimal size of the groups n = 5

RoM = robust average

SD = standard deviation

CV = coefficient of variation

N<sub>tot</sub> = total number of the resultsN<sub>out</sub> = number of the results removed before calculation

AV = assigned value

CVP = consensus of all participants

U<sub>AV</sub> = expanded uncertainty of the assigned value (k = 2)D<sub>max</sub> = acceptable difference

LL = lower limit

UL = upper limit

N<sub>eva</sub> = number of the results assessedN<sub>suc</sub> = number of successful resultsS<sub>rel</sub> = relative success

| Test<br>Sample<br>Group             | [unit] | RoM  | SD  | CV<br>[%] | N <sub>tot</sub> | N <sub>out</sub> | Comparability |                 |                  |     |      | N <sub>eva</sub> | N <sub>suc</sub> | S <sub>rel</sub><br>[%] |     |
|-------------------------------------|--------|------|-----|-----------|------------------|------------------|---------------|-----------------|------------------|-----|------|------------------|------------------|-------------------------|-----|
|                                     |        |      |     |           |                  |                  | AV            | U <sub>AV</sub> | D <sub>max</sub> | LL  | UL   |                  |                  |                         |     |
| <b>Set 1</b>                        |        |      |     |           |                  |                  |               |                 |                  |     |      |                  |                  |                         |     |
| (108) <b>Apixaban</b>               | [µg/L] |      |     |           | 37               |                  |               |                 |                  |     |      | 37               | 36               | 97                      |     |
| <b>Sample A1</b>                    |        | 66,8 | 5,6 | 8,3       | 37               |                  | CVP           | 66,8            | 2,2              | 25% | 50,1 | 83,5             | 37               | 36                      | 97  |
| (38) IL                             |        | 70,3 | 5,3 | 7,6       | 12               | 0                |               |                 |                  |     |      |                  | 12               |                         |     |
| (94) Stago                          |        | 68   | 5,9 | 8,7       | 6                | 0                |               |                 |                  |     |      |                  | 6                |                         |     |
| (149) Siemens (Dade, BN, Dimension) |        | 65,3 | 4   | 6,1       | 10               | 0                |               |                 |                  |     |      |                  | 10               |                         |     |
| (179) Siemens                       |        | 64,8 | 3,3 | 5,1       | 5                | 0                |               |                 |                  |     |      |                  | 5                |                         |     |
| Other                               |        |      |     |           | 4                | 0                |               |                 |                  |     |      |                  | 4                |                         |     |
|                                     |        |      |     |           |                  |                  | 4x 193        |                 |                  |     |      |                  |                  |                         |     |
| <b>Sample B1</b>                    |        | 287  | 16  | 5,6       | 37               |                  | CVP           | 287             | 6,5              | 25% | 215  | 359              | 37               | 37                      | 100 |
| (38) IL                             |        | 291  | 10  | 3,5       | 12               | 0                |               |                 |                  |     |      |                  | 12               |                         |     |
| (94) Stago                          |        | 296  | 13  | 4,3       | 6                | 0                |               |                 |                  |     |      |                  | 6                |                         |     |
| (149) Siemens (Dade, BN, Dimension) |        | 285  | 16  | 5,6       | 10               | 0                |               |                 |                  |     |      |                  | 10               |                         |     |
| (179) Siemens                       |        | 288  | 19  | 6,4       | 5                | 0                |               |                 |                  |     |      |                  | 5                |                         |     |
| Other                               |        |      |     |           | 4                | 0                |               |                 |                  |     |      |                  | 4                |                         |     |
|                                     |        |      |     |           |                  |                  | 4x 193        |                 |                  |     |      |                  |                  |                         |     |
| <b>Set 2</b>                        |        |      |     |           |                  |                  |               |                 |                  |     |      |                  |                  |                         |     |
| (109) <b>Dabigatran</b>             | [µg/L] |      |     |           | 37               |                  |               |                 |                  |     |      | 37               | 36               | 97                      |     |
| <b>Sample A2</b>                    |        | 211  | 19  | 8,8       | 37               |                  | CVP           | 211             | 7,5              | 30% | 147  | 275              | 37               | 37                      | 100 |
| (38) IL                             |        | 202  | 20  | 10        | 13               | 0                |               |                 |                  |     |      |                  | 13               |                         |     |
| (149) Siemens (Dade, BN, Dimension) |        | 203  | 10  | 5,1       | 9                | 0                |               |                 |                  |     |      |                  | 9                |                         |     |
| (179) Siemens                       |        | 210  | 10  | 4,9       | 5                | 0                |               |                 |                  |     |      |                  | 5                |                         |     |
| (193) HYPHEN BioMed                 |        | 232  | 16  | 6,7       | 10               | 0                |               |                 |                  |     |      |                  | 10               |                         |     |
| <b>Sample B2</b>                    |        | 45,9 | 6,2 | 14        | 37               |                  | CVP           | 45,9            | 2,5              | 30% | 32,1 | 59,7             | 37               | 36                      | 97  |
| (38) IL                             |        | 47,4 | 3,9 | 8,2       | 13               | 0                |               |                 |                  |     |      |                  | 13               |                         |     |
| (149) Siemens (Dade, BN, Dimension) |        | 44   | 4,4 | 10        | 9                | 0                |               |                 |                  |     |      |                  | 9                |                         |     |
| (179) Siemens                       |        | 43   | 4,4 | 10        | 5                | 0                |               |                 |                  |     |      |                  | 5                |                         |     |
| (193) HYPHEN BioMed                 |        | 45,7 | 8,1 | 18        | 10               | 0                |               |                 |                  |     |      |                  | 10               |                         |     |
| <b>Set 3</b>                        |        |      |     |           |                  |                  |               |                 |                  |     |      |                  |                  |                         |     |
| (110) <b>Rivaroxaban</b>            | [µg/L] |      |     |           | 43               |                  |               |                 |                  |     |      | 43               | 41               | 95                      |     |
| <b>Sample A3</b>                    |        | 286  | 22  | 7,7       | 43               |                  | CVP           | 286             | 8,2              | 25% | 214  | 358              | 43               | 42                      | 98  |
| (38) IL                             |        | 284  | 9,7 | 3,4       | 14               | 0                |               |                 |                  |     |      |                  | 14               |                         |     |
| (94) Stago                          |        | 292  | 10  | 3,6       | 6                | 0                |               |                 |                  |     |      |                  | 6                |                         |     |
| (149) Siemens (Dade, BN, Dimension) |        | 281  | 31  | 11        | 11               | 0                |               |                 |                  |     |      |                  | 11               |                         |     |
| (179) Siemens                       |        | 286  | 26  | 9,1       | 6                | 0                |               |                 |                  |     |      |                  | 6                |                         |     |
| (193) HYPHEN BioMed                 |        | 308  | 12  | 3,8       | 5                | 0                |               |                 |                  |     |      |                  | 5                |                         |     |
| Other                               |        |      |     |           | 1                | 0                |               |                 |                  |     |      |                  | 1                |                         |     |
|                                     |        |      |     |           |                  |                  | 1x 162        |                 |                  |     |      |                  |                  |                         |     |
| <b>Sample B3</b>                    |        | 78,4 | 6,1 | 7,8       | 43               |                  | CVP           | 78,4            | 2,3              | 25% | 58,8 | 98               | 43               | 41                      | 95  |
| (38) IL                             |        | 80,9 | 5,7 | 7,1       | 14               | 0                |               |                 |                  |     |      |                  | 14               |                         |     |
| (94) Stago                          |        | 74   | 5,9 | 8         | 6                | 0                |               |                 |                  |     |      |                  | 6                |                         |     |
| (149) Siemens (Dade, BN, Dimension) |        | 77,4 | 4,7 | 6         | 11               | 0                |               |                 |                  |     |      |                  | 11               |                         |     |
| (179) Siemens                       |        | 80   | 4,4 | 5,6       | 6                | 0                |               |                 |                  |     |      |                  | 6                |                         |     |
| (193) HYPHEN BioMed                 |        | 73,3 | 7   | 9,5       | 5                | 0                |               |                 |                  |     |      |                  | 5                |                         |     |
| Other                               |        |      |     |           | 1                | 0                |               |                 |                  |     |      |                  | 1                |                         |     |
|                                     |        |      |     |           |                  |                  | 1x 162        |                 |                  |     |      |                  |                  |                         |     |