

## Summary statistics - quantitative results

(Groups: measurement principle)

Filter: Slovakia, minimal size of the groups n = 5

## EQA round: RFA1/22 - Risk Factors for Atherosclerosis

Deadline: 08.04.2022

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|--|--|--|
| 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>(111) Cholesterol</b>                      |          |       |       |        | 40               |                         |               |                 |                  |       |       | 40               | 36               | 90%              |
| Samples and groups                            | [mmol/L] |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>Sample A</b>                               |          | 4,80  | 0,17  | 3,6    | 40               | CVP                     | 4,77          | 0,022           | 8%               | 4,38  | 5,16  | 40               | 36               | 90%              |
| (1) Enzyme method CHOD-PAP                    |          | 4,80  | 0,17  | 3,6    | 40               | 0                       |               |                 |                  |       |       | 40               |                  |                  |
| <b>Sample B</b>                               |          | 6,66  | 0,23  | 3,5    | 40               | CVP                     | 6,61          | 0,030           | 8%               | 6,08  | 7,14  | 40               | 38               | 95%              |
| (1) Enzyme method CHOD-PAP                    |          | 6,66  | 0,23  | 3,5    | 40               | 0                       |               |                 |                  |       |       | 40               |                  |                  |
| <b>(112) Triacylglycerols</b>                 |          |       |       |        | 39               |                         |               |                 |                  |       |       | 39               | 38               | 97%              |
| Samples and groups                            | [mmol/L] |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>Sample A</b>                               |          | 1,47  | 0,049 | 3,4    | 39               | CVP                     | 1,47          | ,0077           | 15%              | 1,24  | 1,7   | 39               | 38               | 97%              |
| (1) Photometric enzyme (GPO-PAP)              |          | 1,47  | 0,051 | 3,4    | 36               | 0                       |               |                 |                  |       |       | 36               |                  |                  |
| Other   |          |       |       |        | 3                | 0                       |               |                 |                  |       |       | 3                |                  |                  |
|   |          |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>Sample B</b>                               |          | 1,99  | 0,059 | 2,9    | 39               | <sup>3x2</sup> CVP      | 2,0085        | 15%             | 1,7              | 2,3   | 39    | 39               | 100%             |                  |
| (1) Photometric enzyme (GPO-PAP)              |          | 2,00  | 0,059 | 3,0    | 36               | 0                       |               |                 |                  |       |       | 36               |                  |                  |
| Other   |          |       |       |        | 3                | 0                       |               |                 |                  |       |       | 3                |                  |                  |
|   |          |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>(113) Cholesterol HDL</b>                  |          |       |       |        | 40               |                         |               |                 |                  |       |       | 40               | 39               | 98%              |
| Samples and groups                            | [mmol/L] |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>Sample A</b>                               |          | 1,27  | 0,049 | 3,9    | 40               | CVP                     | 1,27          | ,0069           | 15%              | 1,07  | 1,47  | 40               | 39               | 98%              |
| (2) Direct determination                      |          | 1,27  | 0,05  | 3,9    | 39               | 0                       |               |                 |                  |       |       | 39               |                  |                  |
| Other   |          |       |       |        | 1                | 0                       |               |                 |                  |       |       | 1                |                  |                  |
|   |          |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>Sample B</b>                               |          | 1,77  | 0,078 | 4,4    | 40               | <sup>1x1</sup> CVP      | 1,78          | 0,011           | 15%              | 1,51  | 2,05  | 40               | 39               | 98%              |
| (2) Direct determination                      |          | 1,77  | 0,079 | 4,5    | 39               | 0                       |               |                 |                  |       |       | 39               |                  |                  |
| Other   |          |       |       |        | 1                | 0                       |               |                 |                  |       |       | 1                |                  |                  |
|   |          |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>(114) Apolipoprotein AI</b>                |          |       |       |        | 12               |                         |               |                 |                  |       |       | 12               | 12               | 100%             |
| Samples and groups                            | [g/L]    |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>Sample A</b>                               |          | 1,48  | 0,089 | 6,0    | 12               | CVP                     | 1,44          | 0,020           | 21%              | 1,13  | 1,75  | 12               | 12               | 100%             |
| (2) Immunoturbidimetry                        |          | 1,46  | 0,07  | 4,8    | 10               | 0                       |               |                 |                  |       |       | 10               |                  |                  |
| Other   |          |       |       |        | 2                | 0                       |               |                 |                  |       |       | 2                |                  |                  |
|   |          |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>Sample B</b>                               |          | 2,05  | 0,089 | 4,3    | 12               | <sup>1x0, 1x3</sup> CVP | 2,02          | 0,034           | 21%              | 1,59  | 2,45  | 12               | 12               | 100%             |
| (2) Immunoturbidimetry                        |          | 2,03  | 0,069 | 3,4    | 10               | 0                       |               |                 |                  |       |       | 10               |                  |                  |
| Other   |          |       |       |        | 2                | 0                       |               |                 |                  |       |       | 2                |                  |                  |
|   |          |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>(115) Apolipoprotein B</b>                 |          |       |       |        | 15               |                         |               |                 |                  |       |       | 15               | 15               | 100%             |
| Samples and groups                            | [g/L]    |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>Sample A</b>                               |          | 0,908 | 0,06  | 6,6    | 15               | CVP                     | 0,91          | 0,011           | 18%              | 0,746 | 1,08  | 15               | 15               | 100%             |
| (2) Immunoturbidimetry                        |          | 0,912 | 0,064 | 7,1    | 13               | 0                       |               |                 |                  |       |       | 13               |                  |                  |
| Other   |          |       |       |        | 2                | 0                       |               |                 |                  |       |       | 2                |                  |                  |
|   |          |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>Sample B</b>                               |          | 1,21  | 0,068 | 5,6    | 15               | <sup>1x0, 1x3</sup> CVP | 1,24          | 0,015           | 18%              | 1,01  | 1,47  | 15               | 15               | 100%             |
| (2) Immunoturbidimetry                        |          | 1,22  | 0,068 | 5,6    | 13               | 0                       |               |                 |                  |       |       | 13               |                  |                  |
| Other   |          |       |       |        | 2                | 0                       |               |                 |                  |       |       | 2                |                  |                  |
|   |          |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>(116) Cholesterol LDL (calculation)</b>    |          |       |       |        | 11               |                         |               |                 |                  |       |       | 11               | 11               | 100%             |
| Samples and groups                            | [mmol/L] |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>Sample A</b>                               |          | 2,89  | 0,26  | 9,1    | 11               | CVP                     | 2,86          | 0,037           | 15%              | 2,43  | 3,29  | 11               | 11               | 100%             |
| (0) Not specified                             |          | 2,89  | 0,26  | 9,1    | 11               | 0                       |               |                 |                  |       |       | 11               |                  |                  |
| <b>Sample B</b>                               |          | 3,99  | 0,28  | 7,0    | 11               | CVP                     | 3,94          | 0,051           | 15%              | 3,34  | 4,54  | 11               | 11               | 100%             |
| (0) Not specified                             |          | 3,99  | 0,28  | 7,0    | 11               | 0                       |               |                 |                  |       |       | 11               |                  |                  |
| <b>(118) Cholesterol LDL (direct determ.)</b> |          |       |       |        | 33               |                         |               |                 |                  |       |       | 33               | 33               | 100%             |
| Samples and groups                            | [mmol/L] |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>Sample A</b>                               |          | 2,95  | 0,24  | 8,3    | 33               |                         |               |                 |                  |       |       | 33               | 33               | 100%             |
| (0) Not specified                             |          | 2,95  | 0,24  | 8,3    | 33               | 0                       | CVP           | 2,92            | 0,039            | 15%   | 2,48  | 3,36             | 33               |                  |
| <b>Sample B</b>                               |          | 4,00  | 0,38  | 9,5    | 33               |                         |               |                 |                  |       |       | 33               | 33               | 100%             |
| (0) Not specified                             |          | 4,00  | 0,38  | 9,5    | 33               | 0                       | CVP           | 4,01            | 0,064            | 15%   | 3,4   | 4,62             | 33               |                  |
| <b>(117) Lipoprotein (a) [g/L]</b>            |          |       |       |        | 7                |                         |               |                 |                  |       |       | 7                | 6                | 86%              |
| Samples and groups                            | [g/L]    |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>Sample A</b>                               |          | 0,223 | 0,04  | 18     | 7                | CVP                     | 0,25          | ,0093           | 32%              | 0,17  | 0,33  | 7                | 6                | 86%              |
| (2) Immunoturbidimetry                        |          | 0,245 | 0,007 | 3,0    | 5                | 0                       |               |                 |                  |       |       | 5                |                  |                  |
| Other   |          |       |       |        | 2                | 0                       |               |                 |                  |       |       | 2                |                  |                  |
|   |          |       |       |        |                  |                         |               |                 |                  |       |       |                  |                  |                  |
| <b>Sample B</b>                               |          | 0,297 | 0,05  | 17     | 7                | <sup>1x0, 1x3</sup> CVP | 0,327         | 0,010           | 32%              | 0,222 | 0,432 | 7                | 6                | 86%              |

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| Test                                  | [unit]   | RoM   | SD    | CV [%] | N <sub>tot</sub> | N <sub>out</sub> | Comparability |                 |                  |     |       |                  |                  |                  |                     |
|---------------------------------------|----------|-------|-------|--------|------------------|------------------|---------------|-----------------|------------------|-----|-------|------------------|------------------|------------------|---------------------|
|                                       |          |       |       |        |                  |                  | AV            | U <sub>AV</sub> | D <sub>max</sub> | LL  | UL    | N <sub>eva</sub> | N <sub>suc</sub> | S <sub>rel</sub> |                     |
| <b>(117) Lipoprotein (a) [g/L]</b>    | [g/L]    |       |       |        | 7                |                  |               |                 |                  |     |       | 7                | 6                | 86%              |                     |
| Samples and groups                    |          |       |       |        |                  |                  |               |                 |                  |     |       |                  |                  |                  |                     |
| <b>Sample B</b>                       |          | 0,297 | 0,05  | 17     | 7                |                  | CVP           | 0,327           | 0,010            | 32% | 0,222 | 0,432            | 7                | 6                | 86%                 |
| (2) Immunoturbidimetry                |          | 0,320 | 0,015 | 4,6    | 5                | 0                |               |                 |                  |     |       |                  | 5                |                  |                     |
| Other                                 |          |       |       |        | 2                | 0                |               |                 |                  |     |       |                  | 2                |                  |                     |
|                                       |          |       |       |        |                  |                  | 1x 0, 1x 3    |                 |                  |     |       |                  |                  |                  |                     |
| <b>(119) Lipoprotein (a) [nmol/L]</b> | [nmol/L] |       |       |        | 2                |                  |               |                 |                  |     |       | 2                | 1                | 50%              |                     |
| Samples and groups                    |          |       |       |        |                  |                  |               |                 |                  |     |       |                  |                  |                  |                     |
| <b>Sample A</b>                       |          | 42,6  | 6,6   | 15     | 2                |                  | CVP           | 49,2            | 1,6              | 20% | 39,3  | 59,1             | 2                | 1                | 50%                 |
| Other                                 |          |       |       |        | 2                | 0                |               |                 |                  |     |       |                  | 2                |                  |                     |
|                                       |          |       |       |        |                  |                  | 2x 2          |                 |                  |     |       |                  |                  |                  |                     |
| <b>Sample B</b>                       |          | 57,2  | 7,2   | 13     | 2                |                  | CVP           | 65,1            | 2,1              | 20% | 52    | 78,2             | 2                | 1                | 50%                 |
| Other                                 |          |       |       |        | 2                | 0                |               |                 |                  |     |       |                  | 2                |                  |                     |
|                                       |          |       |       |        |                  |                  | 2x 2          |                 |                  |     |       |                  |                  |                  |                     |
| st_kn_p                               |          |       |       |        |                  |                  | End of report |                 |                  |     |       |                  |                  |                  | Printed: 14.04.2022 |