

## Summary statistics - quantitative results

(Groups: manufacturer of kit)

Filter: minimal size of groups n = 5

## EQA round: RFA1/18 - Risk Factors for Atherosclerosis

Dead line: 23.03.2018

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

Test	[unit]	Comparability					Comparability			N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>			
		RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>				LL	UL	
<b>(111) Cholesterol</b>					283						283	278	98%		
Samples and groups	[mmol/L]														
<b>Sample A</b>		7,45	0,24	3,3	283	CVP	7,45	0,036	8%	6,85	8,05	283	279	99%	
(1) Abbott		7,61	0,14	1,9	40	0						40			
(12) Beckman Coulter		7,45	0,19	2,5	13	0						13			
(46) Erba Lachema		7,47	0,23	3,0	14	0						14			
(49) BioVendor		7,56	0,23	3,0	8	0						8			
(58) Beckman Coulter (Olympus)		7,65	0,26	3,4	58	0						58			
(60) Roche		7,29	0,18	2,5	96	0						96			
(149) Siemens (Dade)		7,41	0,14	1,9	11	0						11			
(177) MINDRAY		7,64	0,16	2,0	7	0						7			
(179) Siemens (Bayer)		7,36	0,19	2,6	24	0						24			
Other					12	0						12			
							3x 5, 1x 18, 1x 32, 1x 121, 3x 166, 3x 178								
<b>Sample B</b>		3,33	0,11	3,3	283	CVP	3,33	0,016	8%	3,06	3,6	283	282	100%	
(1) Abbott		3,36	0,069	2,0	40	0						40			
(12) Beckman Coulter		3,36	0,056	1,7	13	0						13			
(46) Erba Lachema		3,31	0,086	2,6	14	0						14			
(49) BioVendor		3,35	0,074	2,2	8	0						8			
(58) Beckman Coulter (Olympus)		3,40	0,099	2,9	58	0						58			
(60) Roche		3,26	0,10	3,1	96	0						96			
(149) Siemens (Dade)		3,28	0,13	4,1	11	0						11			
(177) MINDRAY		3,41	0,022	0,65	7	0						7			
(179) Siemens (Bayer)		3,36	0,064	1,9	24	0						24			
Other					12	0						12			
							3x 5, 1x 18, 1x 32, 1x 121, 3x 166, 3x 178								
<b>(112) Triglycerides</b>					283							283	275	97%	
Samples and groups	[mmol/L]														
<b>Sample A</b>		2,45	0,084	3,4	283	CVP	2,45	0,012	15%	2,08	2,82	283	280	99%	
(1) Abbott		2,41	0,084	3,5	39	0						39			
(12) Beckman Coulter		2,45	0,095	3,9	12	0						12			
(46) Erba Lachema		2,47	0,11	4,5	17	0						17			
(49) BioVendor		2,32	0,096	4,2	8	0						8			
(58) Beckman Coulter (Olympus)		2,45	0,065	2,7	56	0						56			
(60) Roche		2,47	0,069	2,8	96	0						96			
(149) Siemens (Dade)		2,51	0,16	6,3	11	0						11			
(177) MINDRAY		2,45	0,10	4,2	7	0						7			
(179) Siemens (Bayer)		2,46	0,08	3,2	24	0						24			
Other					13	0						13			
							3x 5, 1x 18, 2x 32, 1x 121, 3x 166, 3x 178								
<b>Sample B</b>		1,12	0,048	4,3	283	CVP	1,12	0,070	15%	0,952	1,29	283	277	98%	
(1) Abbott		1,09	0,04	3,7	39	0						39			
(12) Beckman Coulter		1,08	0,042	3,9	12	0						12			
(46) Erba Lachema		1,12	0,054	4,8	17	0						17			
(49) BioVendor		1,05	0,052	5,0	8	0						8			
(58) Beckman Coulter (Olympus)		1,12	0,031	2,8	56	0						56			
(60) Roche		1,15	0,031	2,7	96	0						96			
(149) Siemens (Dade)		1,10	0,096	8,7	11	0						11			
(177) MINDRAY		1,13	0,059	5,2	7	0						7			
(179) Siemens (Bayer)		1,14	0,038	3,3	24	0						24			
Other					13	0						13			
							3x 5, 1x 18, 2x 32, 1x 121, 3x 166, 3x 178								
<b>(113) Cholesterol HDL</b>					286							286	278	97%	
Samples and groups	[mmol/L]														
<b>Sample A</b>		1,95	0,09	4,6	286	CVP	1,95	0,013	15%	1,65	2,25	286	284	99%	
(1) Abbott		1,99	0,08	4,0	37	0						37			
(12) Beckman Coulter		2,03	0,14	6,9	12	0						12			
(46) Erba Lachema		1,97	0,10	5,2	17	0						17			
(49) BioVendor		1,99	0,059	3,0	8	0						8			
(58) Beckman Coulter (Olympus)		1,88	0,078	4,1	56	0						56			
(60) Roche		1,93	0,058	3,0	95	0						95			
(149) Siemens (Dade)		1,99	0,12	6,1	11	0						11			
(177) MINDRAY		1,99	0,037	1,9	6	0						6			
(179) Siemens (Bayer)		2,02	0,06	3,0	24	0						24			
Other					20	0						20			
							2x 5, 1x 18, 1x 32, 4x 70, 1x 75, 1x 121, 3x 158, 2x 166, 4x 178, 1x 999								
<b>Sample B</b>		0,861	0,045	5,2	286	CVP	0,861	0,064	15%	0,731	0,991	286	280	98%	

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## EQA round: RFA1/18 - Risk Factors for Atherosclerosis

Dead line: 23.03.2018

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>(113) Cholesterol HDL</b>					286							286	278	97%		
Samples and groups		[mmol/L]														
<b>Sample B</b>							CVP									
(1) Abbott		0,861	0,045	5,2	286			0,861	,0064	15%	0,731	0,991		286	280	98%
(12) Beckman Coulter		0,857	0,036	4,2	37	0								37		
(46) Erba Lachema		0,864	0,051	5,9	12	0								12		
(49) BioVendor		0,861	0,046	5,3	17	0								17		
(58) Beckman Coulter (Olympus)		0,910	0,045	4,9	8	0								8		
(60) Roche		0,819	0,034	4,1	56	0								56		
(149) Siemens (Dade)		0,873	0,028	3,2	95	0								95		
(177) MINDRAY		0,939	0,048	5,1	11	0								11		
(179) Siemens (Bayer)		0,900	0,03	3,3	6	0								6		
Other		0,835	0,031	3,7	24	0								24		
					20	0								20		
2x 5, 1x 18, 1x 32, 4x 70, 1x 75, 1x 121, 3x 158, 2x 166, 4x 178, 1x 999																
<b>(114) Apolipoprotein AI</b>					83								83	82	99%	
Samples and groups		[g/L]														
<b>Sample A</b>							CVP									
(1) Abbott		2,27	0,18	7,9	83			2,27	0,048	21%	1,79	2,75		83	83	100%
(12) Beckman Coulter		2,32	0,059	2,6	8	0								8		
(58) Beckman Coulter (Olympus)		2,07	0,16	7,9	7	0								7		
(60) Roche		2,11	0,20	9,4	16	0								16		
(149) Siemens (Dade)		2,38	0,12	5,2	29	0								29		
(179) Siemens (Bayer)		2,23	0,074	3,3	5	0								5		
Other		2,15	0,089	4,1	9	0								9		
					9	0								9		
1x 5, 2x 46, 3x 49, 1x 116, 1x 177, 1x 178																
<b>Sample B</b>							CVP									
(1) Abbott		1,04	0,07	6,7	83			1,04	0,019	21%	0,821	1,26		83	82	99%
(12) Beckman Coulter		1,06	0,059	5,6	8	0								8		
(58) Beckman Coulter (Olympus)		1,02	0,025	2,4	7	0								7		
(60) Roche		1,03	0,062	6,0	16	0								16		
(149) Siemens (Dade)		1,03	0,075	7,3	29	0								29		
(179) Siemens (Bayer)		1,07	0,045	4,2	5	0								5		
Other		1,01	0,082	8,1	9	0								9		
					9	0								9		
1x 5, 2x 46, 3x 49, 1x 116, 1x 177, 1x 178																
<b>(115) Apolipoprotein B</b>					98									98	94	96%
Samples and groups		[g/L]														
<b>Sample A</b>							CVP									
(1) Abbott		1,45	0,092	6,3	98			1,45	0,023	18%	1,18	1,72		98	95	97%
(12) Beckman Coulter		1,44	0,063	4,3	11	0								11		
(58) Beckman Coulter (Olympus)		1,46	0,089	6,1	8	0								8		
(60) Roche		1,41	0,087	6,2	19	0								19		
(149) Siemens (Dade)		1,50	0,059	3,9	36	0								36		
(179) Siemens (Bayer)		1,37	0,03	2,2	5	0								5		
Other		1,47	0,096	6,6	9	0								9		
					10	0								10		
1x 5, 2x 46, 3x 49, 1x 116, 1x 177, 2x 178																
<b>Sample B</b>							CVP									
(1) Abbott		0,668	0,039	5,9	98			0,668	,0097	18%	0,547	0,789		98	95	97%
(12) Beckman Coulter		0,666	0,021	3,1	11	0								11		
(58) Beckman Coulter (Olympus)		0,660	0,089	13	8	0								8		
(60) Roche		0,675	0,049	7,3	19	0								19		
(149) Siemens (Dade)		0,665	0,025	3,8	36	0								36		
(179) Siemens (Bayer)		0,631	0,016	2,5	5	0								5		
Other		0,690	0,03	4,3	9	0								9		
					10	0								10		
1x 5, 2x 46, 3x 49, 1x 116, 1x 177, 2x 178																
<b>(116) Cholesterol LDL (calculation)</b>					149									149	141	95%
Samples and groups		[mmol/L]														
<b>Sample A</b>							CVP									
(0) not specified		4,40	0,27	6,1	149			4,4	0,054	15%	3,74	5,06		149	145	97%
<b>Sample B</b>							CVP									
(0) not specified		1,97	0,13	6,6	149			1,97	0,026	15%	1,67	2,27		149	144	97%
<b>(118) Cholesterol LDL (direct determ.)</b>					194									194	192	99%
Samples and groups		[mmol/L]														
<b>Sample A</b>							CVP									
(1) Abbott		4,49	0,27	6,0	194			4,49	0,047	15%	3,81	5,17		194	194	100%
(12) Beckman Coulter		4,65	0,13	2,8	19	0								19		
(32) Human		4,55	0,096	2,1	6	0								6		
(46) Erba Lachema		4,78	0,11	2,3	6	0								6		
(49) BioVendor		4,51	0,34	7,6	12	0								12		
(58) Beckman Coulter (Olympus)		4,40	0,14	3,2	6	0								6		
(60) Roche		4,66	0,16	3,4	45	0								45		
(149) Siemens (Dade)		4,25	0,18	4,2	59	0								59		
(179) Siemens (Bayer)		4,62	0,24	5,1	6	0								6		
Other		4,53	0,25	5,5	16	0								16		
					19	0								19		
2x 5, 3x 70, 4x 158, 1x 166, 4x 177, 3x 178, 1x 196, 1x 999																

## Summary statistics - quantitative results

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Filter: minimal size of groups n = 5

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Dead line: 23.03.2018

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>Sample B</b>		2,01	0,11	5,4	194		CVP	2,01	0,019	15%	1,7	2,32	194	192	99%	
(1) Abbott		2,00	0,067	3,3	19	0							19			
(12) Beckman Coulter		2,04	0,13	6,5	6	0							6			
(32) Human		1,99	0,052	2,6	6	0							6			
(46) Erba Lachema		2,07	0,084	4,1	12	0							12			
(49) BioVendor		2,01	0,096	4,8	6	0							6			
(58) Beckman Coulter (Olympus)		2,11	0,061	2,9	45	0							45			
(60) Roche		1,93	0,064	3,3	59	0							59			
(149) Siemens (Dade)		2,01	0,081	4,0	6	0							6			
(179) Siemens (Bayer)		1,97	0,10	5,3	16	0							16			
Other					19	0							19			
							2x 5, 3x 70, 4x 158, 1x 166, 4x 177, 3x 178, 1x 196, 1x 999									
<b>(117) Lipoprotein (a) [g/L]</b>	[g/L]					26								26	25	96%
Samples and groups																
<b>Sample A</b>		0,379	0,023	6,1	26		CVP	0,379	0,011	32%	0,257	0,501	26	26	100%	
(179) Siemens (Bayer)		0,375	0,007	2,0	5	0							5			
Other					21	0							21			
							3x 12, 1x 49, 2x 58, 3x 60, 4x 75, 2x 91, 4x 116, 1x 152, 1x 178									
<b>Sample B</b>		0,173	0,012	7,2	26		CVP	0,173	0,0059	32%	0,117	0,229	26	25	96%	
(179) Siemens (Bayer)		0,181	0,001	0,83	5	0							5			
Other					21	0							21			
							3x 12, 1x 49, 2x 58, 3x 60, 4x 75, 2x 91, 4x 116, 1x 152, 1x 178									
<b>(119) Lipoprotein (a) [nmol/L]</b>	[nmol/L]					20								20	19	95%
Samples and groups																
<b>Sample A</b>		77,1	4,8	6,2	20		CVP	77,1	2,6	20%	61,6	92,6	20	19	95%	
(60) Roche		78,1	4,3	5,4	17	0							17			
Other					3	0							3			
							1x 1, 1x 75, 1x 116									
<b>Sample B</b>		30,2	2,4	7,9	20		CVP	30,2	1,3	20%	24,1	36,3	20	20	100%	
(60) Roche		30,8	1,9	6,1	17	0							17			
Other					3	0							3			
							1x 1, 1x 75, 1x 116									

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End of report

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