

Summary statistics - quantitative results

(Groups: manufacturer of kit)

Filter: minimal size of the groups n = 5

EQA round: RFA2/20 - Risk Factors for Atherosclerosis

Deadline: 28.08.2020

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 _{AV} = expanded uncertainty of the assigned value (k = 2)	

Test	[unit]	Comparability												
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
(111) Cholesterol					297						297	281	95%	
--- Samples and groups ---	[mmol/L]													
Sample A		7,81	0,33	4,2	297	CVP	7,81	0,046	8%	7,18	8,44	297	286	96%
(1) Abbott		7,91	0,14	1,8	53	0						53		
(12) Beckman Coulter		7,90	0,30	3,8	8	0						8		
(46) Erba Lachema		7,83	0,29	3,8	11	0						11		
(49) BioVendor		7,99	0,16	2,0	7	0						7		
(58) Beckman Coulter (AU)		8,16	0,26	3,2	68	0						68		
(60) Roche		7,59	0,19	2,5	93	0						93		
(149) Siemens (BN, Dimension)		7,60	0,19	2,4	12	0						12		
(177) MINDRAY		7,84	0,35	4,4	7	0						7		
(179) Siemens		7,52	0,28	3,7	30	0						30		
Other					8	0						8		
							2x 5, 1x 32, 1x 121, 1x 166, 3x 178							
Sample B		3,66	0,14	3,7	297	CVP	3,66	0,019	8%	3,36	3,96	297	289	97%
(1) Abbott		3,70	0,056	1,5	53	0						53		
(12) Beckman Coulter		3,75	0,082	2,2	8	0						8		
(46) Erba Lachema		3,67	0,11	3,0	11	0						11		
(49) BioVendor		3,73	0,11	3,0	7	0						7		
(58) Beckman Coulter (AU)		3,80	0,13	3,4	68	0						68		
(60) Roche		3,56	0,084	2,4	93	0						93		
(149) Siemens (BN, Dimension)		3,62	0,10	2,9	12	0						12		
(177) MINDRAY		3,66	0,059	1,6	7	0						7		
(179) Siemens		3,60	0,12	3,2	30	0						30		
Other					8	0						8		
							2x 5, 1x 32, 1x 121, 1x 166, 3x 178							
(112) Triglycerides					297						297	293	99%	
--- Samples and groups ---	[mmol/L]													
Sample A		2,26	0,069	3,0	297	CVP	2,26	,0098	15%	1,92	2,6	297	294	99%
(1) Abbott		2,26	0,061	2,7	53	0						53		
(12) Beckman Coulter		2,21	0,096	4,4	7	0						7		
(46) Erba Lachema		2,34	0,097	4,2	13	0						13		
(49) BioVendor		2,22	0,13	5,7	7	0						7		
(58) Beckman Coulter (AU)		2,24	0,07	3,1	67	0						67		
(60) Roche		2,27	0,055	2,4	93	0						93		
(149) Siemens (BN, Dimension)		2,29	0,15	6,5	12	0						12		
(177) MINDRAY		2,26	0,052	2,3	7	0						7		
(179) Siemens		2,27	0,057	2,5	30	0						30		
Other					8	0						8		
							2x 5, 1x 32, 1x 121, 1x 166, 3x 178							
Sample B		1,09	0,04	3,7	297	CVP	1,09	,0057	15%	0,926	1,26	297	295	99%
(1) Abbott		1,07	0,026	2,5	53	0						53		
(12) Beckman Coulter		1,06	0,059	5,6	7	0						7		
(46) Erba Lachema		1,12	0,053	4,7	13	0						13		
(49) BioVendor		1,05	0,059	5,6	7	0						7		
(58) Beckman Coulter (AU)		1,08	0,035	3,2	67	0						67		
(60) Roche		1,12	0,024	2,1	93	0						93		
(149) Siemens (BN, Dimension)		1,09	0,097	8,9	12	0						12		
(177) MINDRAY		1,12	0,059	5,3	7	0						7		
(179) Siemens		1,10	0,028	2,5	30	0						30		
Other					8	0						8		
							2x 5, 1x 32, 1x 121, 1x 166, 3x 178							
(113) Cholesterol HDL					298						298	293	98%	
--- Samples and groups ---	[mmol/L]													
Sample A		2,14	0,12	5,7	298	CVP	2,14	0,017	15%	1,81	2,47	298	296	99%
(1) Abbott		2,25	0,071	3,1	53	0						53		
(12) Beckman Coulter		2,16	0,10	4,8	7	0						7		
(46) Erba Lachema		2,17	0,086	4,0	11	0						11		
(49) BioVendor		2,24	0,059	2,6	6	0						6		
(58) Beckman Coulter (AU)		2,06	0,07	3,4	65	0						65		
(60) Roche		2,09	0,09	4,3	91	0						91		
(149) Siemens (BN, Dimension)		2,14	0,14	6,4	12	0						12		
(177) MINDRAY		2,18	0,11	5,1	6	0						6		
(179) Siemens		2,21	0,12	5,4	29	0						29		
Other					18	0						18		
							2x 5, 1x 20, 1x 32, 4x 70, 1x 75, 1x 121, 3x 158, 1x 166, 4x 178							
Sample B		0,997	0,046	4,6	298	CVP	0,997	,0066	15%	0,847	1,15	298	294	99%

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EQA round: RFA2/20 - Risk Factors for Atherosclerosis

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Test	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability						N _{eva}	N _{suc}	S _{rel}	
							AV	U _{AV}	D _{max}	LL	UL					
(113) Cholesterol HDL	[mmol/L]				298							298	293	98%		
Samples and groups																
Sample B		0,997	0,046	4,6	298		CVP	0,997	0,066	15%	0,847	1,15	298	294	99%	
(1) Abbott		1,03	0,037	3,6	53	0							53			
(12) Beckman Coulter		1,02	0,067	6,6	7	0							7			
(46) Erba Lachema		1,01	0,054	5,3	11	0							11			
(49) BioVendor		1,07	0,052	4,9	6	0							6			
(58) Beckman Coulter (AU)		0,963	0,03	3,1	65	0							65			
(60) Roche		0,996	0,029	2,9	91	0							91			
(149) Siemens (BN, Dimension)		1,09	0,071	6,5	12	0							12			
(177) MINDRAY		1,04	0,045	4,3	6	0							6			
(179) Siemens		0,960	0,045	4,7	29	0							29			
Other					18	0							18			
								2x 5, 1x 20, 1x 32, 4x 70, 1x 75, 1x 121, 3x 158, 1x 166, 4x 178								
(114) Apolipoprotein AI	[g/L]				87							87	84	97%		
Samples and groups																
Sample A		2,31	0,19	8,4	87		CVP	2,31	0,051	21%	1,82	2,8	87	86	99%	
(1) Abbott		2,49	0,15	5,9	14	0							14			
(12) Beckman Coulter		2,33	0,27	11	5	0							5			
(58) Beckman Coulter (AU)		2,10	0,18	8,5	19	0							19			
(60) Roche		2,38	0,093	3,9	26	0							26			
(149) Siemens (BN, Dimension)		2,31	0,096	4,2	6	0							6			
(179) Siemens		2,22	0,15	6,9	10	0							10			
Other					7	0							7			
								1x 5, 2x 46, 2x 49, 1x 177, 1x 178								
Sample B		1,10	0,067	6,1	87		CVP	1,10	0,018	21%	0,869	1,34	87	85	98%	
(1) Abbott		1,14	0,052	4,6	14	0							14			
(12) Beckman Coulter		1,14	0,052	4,6	5	0							5			
(58) Beckman Coulter (AU)		1,05	0,083	7,8	19	0							19			
(60) Roche		1,09	0,045	4,1	26	0							26			
(149) Siemens (BN, Dimension)		1,12	0,03	2,7	6	0							6			
(179) Siemens		1,07	0,075	7,0	10	0							10			
Other					7	0							7			
								1x 5, 2x 46, 2x 49, 1x 177, 1x 178								
(115) Apolipoprotein B	[g/L]				102							102	101	99%		
Samples and groups																
Sample A		1,45	0,10	7,1	102		CVP	1,45	0,025	18%	1,18	1,72	102	102	100%	
(1) Abbott		1,48	0,062	4,2	18	0							18			
(12) Beckman Coulter		1,48	0,074	5,0	5	0							5			
(58) Beckman Coulter (AU)		1,34	0,12	9,0	22	0							22			
(60) Roche		1,50	0,048	3,2	34	0							34			
(149) Siemens (BN, Dimension)		1,39	0,015	1,1	5	0							5			
(179) Siemens		1,45	0,14	9,8	10	0							10			
Other					8	0							8			
								1x 5, 2x 46, 2x 49, 1x 177, 2x 178								
Sample B		0,700	0,039	5,6	102		CVP	0,700	0,095	18%	0,574	0,826	102	101	99%	
(1) Abbott		0,714	0,026	3,6	18	0							18			
(12) Beckman Coulter		0,722	0,018	2,5	5	0							5			
(58) Beckman Coulter (AU)		0,666	0,027	4,1	22	0							22			
(60) Roche		0,711	0,029	4,0	34	0							34			
(149) Siemens (BN, Dimension)		0,695	0,007	1,1	5	0							5			
(179) Siemens		0,714	0,061	8,6	10	0							10			
Other					8	0							8			
								1x 5, 2x 46, 2x 49, 1x 177, 2x 178								
(116) Cholesterol LDL (calculation)	[mmol/L]				138							138	126	91%		
Samples and groups																
Sample A		4,60	0,27	5,8	138		CVP	4,60	0,056	15%	3,91	5,29	138	129	93%	
(0) not specified		4,60	0,27	5,8	138	0							138			
Sample B		2,16	0,14	6,3	138		CVP	2,16	0,028	15%	1,83	2,49	138	131	95%	
(0) not specified		2,16	0,14	6,3	138	0							138			
(118) Cholesterol LDL (direct determ.)	[mmol/L]				215							215	210	98%		
Samples and groups																
Sample A		4,80	0,40	8,4	215		CVP	4,80	0,067	15%	4,08	5,52	215	211	98%	
(1) Abbott		5,05	0,14	2,7	39	0							39			
(12) Beckman Coulter		4,94	0,089	1,8	6	0							6			
(46) Erba Lachema		4,90	0,34	7,0	9	0							9			
(49) BioVendor		4,40	0,0070	1,7	5	0							5			
(58) Beckman Coulter (AU)		5,01	0,16	3,1	54	0							54			
(60) Roche		4,32	0,14	3,3	58	0							58			
(149) Siemens (BN, Dimension)		4,71	0,20	4,1	8	0							8			
(179) Siemens		5,10	0,29	5,6	21	0							21			
Other					15	0							15			
								2x 5, 1x 20, 3x 70, 3x 158, 4x 177, 2x 178								
Sample B		2,27	0,16	7,0	215		CVP	2,27	0,027	15%	1,92	2,62	215	213	99%	

Summary statistics - quantitative results

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EQA round: RFA2/20 - Risk Factors for Atherosclerosis

Deadline: 28.08.2020

Test	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability						N _{eva}	N _{suc}	S _{rel}
							AV	U _{AV}	D _{max}	LL	UL				
(118) Cholesterol LDL (direct determ.)	[mmol/L]				215								215	210	98%
Samples and groups															
Sample B		2,27	0,16	7,0	215		CVP	2,27	0,027	15%	1,92	2,62	215	213	99%
(1) Abbott		2,33	0,059	2,5	39	0							39		
(12) Beckman Coulter		2,36	0,045	1,9	6	0							6		
(46) Erba Lachema		2,34	0,089	3,8	9	0							9		
(49) BioVendor		2,08	0,03	1,4	5	0							5		
(58) Beckman Coulter (AU)		2,38	0,082	3,4	54	0							54		
(60) Roche		2,09	0,061	2,9	58	0							58		
(149) Siemens (BN, Dimension)		2,23	0,10	4,7	8	0							8		
(179) Siemens		2,34	0,13	5,8	21	0							21		
Other					15	0							15		
2x 5, 1x 20, 3x 70, 3x 158, 4x 177, 2x 178															
(117) Lipoprotein (a) [g/L]	[g/L]				30								30	28	93%
Samples and groups															
Sample A		0,400	0,033	8,3	30		CVP	0,4	0,015	32%	0,272	0,528	30	28	93%
(75) Randox		0,425	0,007	1,7	5	0							5		
(179) Siemens		0,397	0,004	1,1	6	0							6		
Other					19	0							19		
4x 1, 3x 12, 3x 58, 2x 60, 1x 91, 3x 116, 1x 149, 1x 152, 1x 178															
Sample B		0,204	0,021	10	30		CVP	0,204	0,0094	32%	0,138	0,27	30	30	100%
(75) Randox		0,216	0,005	2,7	5	0							5		
(179) Siemens		0,214	0,008	4,2	6	0							6		
Other					19	0							19		
4x 1, 3x 12, 3x 58, 2x 60, 1x 91, 3x 116, 1x 149, 1x 152, 1x 178															
(119) Lipoprotein (a) [nmol/L]	[nmol/L]				27								27	25	93%
Samples and groups															
Sample A		79,6	3,8	4,8	27		CVP	79,6	1,8	20%	63,6	95,6	27	26	96%
(60) Roche		79,3	2,9	3,6	22	0							22		
Other					5	0							5		
1x 1, 1x 49, 1x 75, 1x 91, 1x 116															
Sample B		38,0	3,3	8,7	27		CVP	38	1,6	20%	30,4	45,6	27	25	93%
(60) Roche		37,8	3,4	9,0	22	0							22		
Other					5	0							5		
1x 1, 1x 49, 1x 75, 1x 91, 1x 116															

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End of report

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