

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of groups n = 5

EQA round: RFA2/18 - Risk Factors for Atherosclerosis

Dead line: 31.08.2018

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

Test	[unit]	Comparability					Comparability			N _{eva}	N _{suc}	S _{rel}		
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}				LL	UL
(111) Cholesterol					285						285	272	95%	
Samples and groups	[mmol/L]													
Sample A		3,32	0,12	3,7	285	CVP	3,32	0,018	8%	3,05	3,59	285	278	98%
(1) Abbott		3,37	0,074	2,2	47	0						47		
(12) Beckman Coulter		3,38	0,11	3,3	8	0						8		
(58) Beckman Coulter (Olympus)		3,42	0,13	3,7	67	0						67		
(60) Roche		3,24	0,075	2,3	96	0						96		
(149) Siemens (Dade)		3,19	0,18	5,7	11	0						11		
(166) Thermo		3,28	0,12	3,6	5	0						5		
(177) MINDRAY		3,36	0,067	2,0	9	0						9		
(179) Siemens (Bayer)		3,31	0,097	2,9	36	0						36		
Other					6	0						6		
							2x 4, 1x 5, 1x 46, 1x 49, 1x 178							
Sample B		4,89	0,18	3,6	285	CVP	4,89	0,025	8%	4,49	5,29	285	276	97%
(1) Abbott		4,96	0,09	1,8	47	0						47		
(12) Beckman Coulter		4,93	0,19	3,9	8	0						8		
(58) Beckman Coulter (Olympus)		5,03	0,16	3,2	67	0						67		
(60) Roche		4,77	0,12	2,6	96	0						96		
(149) Siemens (Dade)		4,79	0,22	4,5	11	0						11		
(166) Thermo		4,90	0,096	2,0	5	0						5		
(177) MINDRAY		4,99	0,082	1,6	9	0						9		
(179) Siemens (Bayer)		4,87	0,14	2,8	36	0						36		
Other					6	0						6		
							2x 4, 1x 5, 1x 46, 1x 49, 1x 178							
(112) Triglycerides					285							285	277	97%
Samples and groups	[mmol/L]													
Sample A		1,05	0,046	4,4	285	CVP	1,05	,0067	15%	0,892	1,21	285	280	98%
(1) Abbott		1,02	0,041	4,0	47	0						47		
(12) Beckman Coulter		1,05	0,082	7,8	8	0						8		
(58) Beckman Coulter (Olympus)		1,04	0,034	3,2	67	0						67		
(60) Roche		1,08	0,03	2,8	96	0						96		
(149) Siemens (Dade)		1,05	0,10	9,6	11	0						11		
(166) Thermo		1,05	0,052	5,0	5	0						5		
(177) MINDRAY		1,04	0,022	2,1	9	0						9		
(179) Siemens (Bayer)		1,05	0,04	3,8	36	0						36		
Other					6	0						6		
							2x 4, 1x 5, 1x 46, 1x 49, 1x 178							
Sample B		1,53	0,056	3,7	285	CVP	1,53	,0081	15%	1,3	1,76	285	278	98%
(1) Abbott		1,50	0,049	3,3	47	0						47		
(12) Beckman Coulter		1,53	0,11	7,3	8	0						8		
(58) Beckman Coulter (Olympus)		1,51	0,038	2,5	67	0						67		
(60) Roche		1,56	0,039	2,5	96	0						96		
(149) Siemens (Dade)		1,54	0,10	6,7	11	0						11		
(166) Thermo		1,51	0,079	5,2	5	0						5		
(177) MINDRAY		1,52	0,03	2,0	9	0						9		
(179) Siemens (Bayer)		1,53	0,06	3,9	36	0						36		
Other					6	0						6		
							2x 4, 1x 5, 1x 46, 1x 49, 1x 178							
(113) Cholesterol HDL					287							287	280	98%
Samples and groups	[mmol/L]													
Sample A		0,881	0,046	5,2	287	CVP	0,881	,0066	15%	0,748	1,02	287	281	98%
(1) Abbott		0,880	0,038	4,3	47	0						47		
(12) Beckman Coulter		0,895	0,052	5,8	8	0						8		
(58) Beckman Coulter (Olympus)		0,849	0,044	5,1	68	0						68		
(60) Roche		0,894	0,026	3,0	96	0						96		
(149) Siemens (Dade)		0,957	0,034	3,5	11	0						11		
(166) Thermo		0,905	0,0070	0,82	5	0						5		
(177) MINDRAY		0,905	0,022	2,5	9	0						9		
(179) Siemens (Bayer)		0,866	0,053	6,1	37	0						37		
Other					6	0						6		
							2x 4, 1x 5, 1x 46, 1x 49, 1x 178							
Sample B		1,30	0,062	4,8	287	CVP	1,3	,0090	15%	1,1	1,5	287	280	98%
(1) Abbott		1,30	0,06	4,6	47	0						47		
(12) Beckman Coulter		1,35	0,082	6,1	8	0						8		
(58) Beckman Coulter (Olympus)		1,26	0,064	5,1	68	0						68		
(60) Roche		1,31	0,046	3,5	96	0						96		
(149) Siemens (Dade)		1,36	0,048	3,5	11	0						11		

Summary statistics - quantitative results

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EQA round: RFA2/18 - Risk Factors for Atherosclerosis

Dead line: 31.08.2018

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					287							287	280	98%	
Samples and groups	[mmol/L]														
Sample B		1,30	0,062	4,8	287		CVP	1,3	0,090	15%	1,1	1,5	287	280	98%
(166) Thermo		1,35	0,027	2,0	5	0							5		
(177) MINDRAY		1,34	0,022	1,7	9	0							9		
(179) Siemens (Bayer)		1,32	0,051	3,9	37	0							37		
Other					6	0							6		
								2x 4, 1x 5, 1x 46, 1x 49, 1x 178							
(114) Apolipoprotein AI					84							84	82	98%	
Samples and groups	[g/L]														
Sample A		1,05	0,075	7,1	84		CVP	1,05	0,020	21%	0,829	1,28	84	82	98%
(1) Abbott		1,08	0,026	2,4	10	0							10		
(12) Beckman Coulter		1,08	0,096	9,0	6	0							6		
(58) Beckman Coulter (Olympus)		1,05	0,10	9,6	18	0							18		
(60) Roche		1,02	0,051	5,0	29	0							29		
(149) Siemens (Dade)		1,00	0,10	10	5	0							5		
(179) Siemens (Bayer)		1,10	0,10	9,1	13	0							13		
Other					3	0							3		
								1x 166, 1x 177, 1x 178							
Sample B		1,50	0,11	7,0	84		CVP	1,5	0,028	21%	1,18	1,82	84	84	100%
(1) Abbott		1,53	0,073	4,8	10	0							10		
(12) Beckman Coulter		1,53	0,096	6,3	6	0							6		
(58) Beckman Coulter (Olympus)		1,41	0,11	8,0	18	0							18		
(60) Roche		1,51	0,062	4,1	29	0							29		
(149) Siemens (Dade)		1,44	0,089	6,2	5	0							5		
(179) Siemens (Bayer)		1,57	0,14	8,9	13	0							13		
Other					3	0							3		
								1x 166, 1x 177, 1x 178							
(115) Apolipoprotein B					99							99	95	96%	
Samples and groups	[g/L]														
Sample A		0,668	0,038	5,6	99		CVP	0,668	0,093	18%	0,547	0,789	99	96	97%
(1) Abbott		0,677	0,054	8,0	13	0							13		
(12) Beckman Coulter		0,695	0,052	7,5	7	0							7		
(58) Beckman Coulter (Olympus)		0,654	0,051	7,8	21	0							21		
(60) Roche		0,660	0,016	2,5	36	0							36		
(149) Siemens (Dade)		0,635	0,052	8,2	5	0							5		
(179) Siemens (Bayer)		0,700	0,043	6,1	14	0							14		
Other					3	0							3		
								1x 166, 1x 177, 1x 178							
Sample B		0,959	0,049	5,1	99		CVP	0,959	0,012	18%	0,786	1,14	99	96	97%
(1) Abbott		0,967	0,048	5,0	13	0							13		
(12) Beckman Coulter		1,00	0,03	3,0	7	0							7		
(58) Beckman Coulter (Olympus)		0,895	0,054	6,0	21	0							21		
(60) Roche		0,971	0,027	2,7	36	0							36		
(149) Siemens (Dade)		0,920	0,089	9,7	5	0							5		
(179) Siemens (Bayer)		0,987	0,05	5,1	14	0							14		
Other					3	0							3		
								1x 166, 1x 177, 1x 178							
(116) Cholesterol LDL (calculation)					139							139	131	94%	
Samples and groups	[mmol/L]														
Sample A		1,97	0,14	7,1	139		CVP	1,97	0,029	15%	1,67	2,27	139	133	96%
(0) not specified		1,97	0,14	7,1	139	1							139		
Sample B		2,90	0,19	6,6	139		CVP	2,9	0,040	15%	2,46	3,34	139	134	96%
(0) not specified		2,90	0,19	6,6	139	1							139		
(118) Cholesterol LDL (direct determ.)					198							198	194	98%	
Samples and groups	[mmol/L]														
Sample A		2,02	0,10	4,9	198		CVP	2,02	0,017	15%	1,71	2,33	198	195	98%
(1) Abbott		2,02	0,052	2,6	32	0							32		
(12) Beckman Coulter		2,07	0,096	4,7	5	0							5		
(58) Beckman Coulter (Olympus)		2,10	0,075	3,6	57	0							57		
(60) Roche		1,95	0,06	3,1	60	0							60		
(149) Siemens (Dade)		2,03	0,11	5,5	7	0							7		
(177) MINDRAY		2,03	0,015	0,73	5	0							5		
(179) Siemens (Bayer)		1,96	0,11	5,4	25	0							25		
Other					7	0							7		
								1x 5, 1x 46, 4x 166, 1x 178							
Sample B		2,97	0,16	5,4	198		CVP	2,97	0,028	15%	2,52	3,42	198	194	98%
(1) Abbott		3,00	0,097	3,2	32	0							32		
(12) Beckman Coulter		3,02	0,13	4,2	5	0							5		
(58) Beckman Coulter (Olympus)		3,10	0,12	3,9	57	0							57		
(60) Roche		2,87	0,096	3,4	60	0							60		
(149) Siemens (Dade)		2,92	0,13	4,3	7	0							7		
(177) MINDRAY		3,00	0,037	1,2	5	0							5		

Summary statistics - quantitative results

(Groups: manufacturer of instrument)

Filter: minimal size of groups n = 5

EQA round: RFA2/18 - Risk Factors for Atherosclerosis

Dead line: 31.08.2018

Test	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability								
							AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}	
(118) Cholesterol LDL (direct determ.)	[mmol/L]				198							198	194	98%	
----- Samples and groups -----															
Sample B		2,97	0,16	5,4	198		CVP	2,97	0,028	15%	2,52	3,42	198	194	98%
(179) Siemens (Bayer)		2,91	0,17	5,9	25	0							25		
Other					7	0							7		
----- 1x 5, 1x 46, 4x 166, 1x 178 -----															
(117) Lipoprotein (a) [g/L]	[g/L]				25								25	25	100%
----- Samples and groups -----															
Sample A		0,185	0,014	7,8	25		CVP	0,185	,0070	32%	0,125	0,245	25	25	100%
(58) Beckman Coulter (Olympus)		0,177	0,016	8,8	6	0							6		
(179) Siemens (Bayer)		0,190	0,008	4,2	10	0							10		
Other					9	0							9		
----- 1x 1, 3x 12, 2x 60, 2x 91, 1x 178 -----															
Sample B		0,266	0,019	7,2	25		CVP	0,266	,0094	32%	0,18	0,352	25	25	100%
(58) Beckman Coulter (Olympus)		0,258	0,022	8,6	6	0							6		
(179) Siemens (Bayer)		0,264	0,01	3,8	10	0							10		
Other					9	0							9		
----- 1x 1, 3x 12, 2x 60, 2x 91, 1x 178 -----															
(119) Lipoprotein (a) [nmol/L]	[nmol/L]				23								23	21	91%
----- Samples and groups -----															
Sample A		33,7	2,7	8,0	23		CVP	33,7	1,4	20%	26,9	40,5	23	21	91%
(60) Roche		33,6	1,9	5,8	18	0							18		
Other					5	0							5		
----- 2x 1, 3x 58 -----															
Sample B		51,7	3,7	7,2	23		CVP	51,7	1,9	20%	41,3	62,1	23	21	91%
(60) Roche		51,8	3,0	5,7	18	0							18		
Other					5	0							5		
----- 2x 1, 3x 58 -----															

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End of report

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