

Summary statistics - quantitative results

(Groups: manufacturer of kit)

Filter: minimal size of groups n = 5

EQA round: RFA2/17 - Risk Factors for Atherosclerosis

Dead line: 15.09.2017

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												
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
(111) Cholesterol					283						283	269	95%	
Samples and groups	[mmol/L]													
Sample A		4,93	0,15	3,0	283	CVP	4,93	0,021	8%	4,53	5,33	283	275	97%
(1) Abbott		4,99	0,093	1,9	36	0						36		
(12) Beckman Coulter		4,96	0,092	1,9	13	0						13		
(46) Erba Lachema		4,90	0,20	4,1	15	0						15		
(49) BioVendor		5,00	0,19	3,8	13	0						13		
(58) Beckman Coulter (Olympus)		5,06	0,17	3,3	54	0						54		
(60) Roche		4,83	0,12	2,5	98	0						98		
(149) Siemens (Dade)		4,81	0,091	1,9	10	0						10		
(177) MINDRAY		4,91	0,074	1,5	7	0						7		
(179) Siemens (Bayer)		4,96	0,088	1,8	25	0						25		
Other					12	0						12		
							4x 5, 1x 32, 1x 121, 3x 166, 3x 178							
Sample B		7,56	0,25	3,3	283	CVP	7,56	0,036	8%	6,95	8,17	283	274	97%
(1) Abbott		7,70	0,13	1,7	36	0						36		
(12) Beckman Coulter		7,54	0,18	2,4	13	0						13		
(46) Erba Lachema		7,44	0,34	4,5	15	0						15		
(49) BioVendor		7,73	0,44	5,8	13	0						13		
(58) Beckman Coulter (Olympus)		7,79	0,20	2,6	54	0						54		
(60) Roche		7,42	0,20	2,7	98	0						98		
(149) Siemens (Dade)		7,32	0,16	2,2	10	0						10		
(177) MINDRAY		7,61	0,16	2,1	7	0						7		
(179) Siemens (Bayer)		7,56	0,14	1,8	25	0						25		
Other					12	0						12		
							4x 5, 1x 32, 1x 121, 3x 166, 3x 178							
(112) Triglycerides					283						283	276	98%	
Samples and groups	[mmol/L]													
Sample A		1,55	0,06	3,9	283	CVP	1,55	,0087	15%	1,31	1,79	283	278	98%
(1) Abbott		1,51	0,041	2,7	35	0						35		
(12) Beckman Coulter		1,48	0,12	7,9	13	0						13		
(46) Erba Lachema		1,53	0,083	5,4	17	0						17		
(49) BioVendor		1,46	0,074	5,1	9	0						9		
(58) Beckman Coulter (Olympus)		1,56	0,06	3,8	52	0						52		
(60) Roche		1,56	0,04	2,5	98	0						98		
(149) Siemens (Dade)		1,55	0,095	6,1	10	0						10		
(177) MINDRAY		1,53	0,052	3,4	7	0						7		
(179) Siemens (Bayer)		1,57	0,057	3,6	29	0						29		
Other					13	0						13		
							4x 5, 2x 32, 1x 121, 3x 166, 3x 178							
Sample B		2,40	0,089	3,7	283	CVP	2,4	0,013	15%	2,04	2,76	283	280	99%
(1) Abbott		2,37	0,065	2,7	35	0						35		
(12) Beckman Coulter		2,35	0,15	6,4	13	0						13		
(46) Erba Lachema		2,34	0,14	6,0	17	0						17		
(49) BioVendor		2,24	0,11	5,0	9	0						9		
(58) Beckman Coulter (Olympus)		2,42	0,083	3,4	52	0						52		
(60) Roche		2,41	0,071	3,0	98	0						98		
(149) Siemens (Dade)		2,43	0,099	4,1	10	0						10		
(177) MINDRAY		2,39	0,082	3,4	7	0						7		
(179) Siemens (Bayer)		2,44	0,12	4,8	29	0						29		
Other					13	0						13		
							4x 5, 2x 32, 1x 121, 3x 166, 3x 178							
(113) Cholesterol HDL					284						284	273	96%	
Samples and groups	[mmol/L]													
Sample A		1,33	0,063	4,8	284	CVP	1,33	,0092	15%	1,13	1,53	284	280	99%
(1) Abbott		1,28	0,045	3,5	33	0						33		
(12) Beckman Coulter		1,33	0,06	4,5	12	0						12		
(46) Erba Lachema		1,35	0,07	5,2	19	0						19		
(49) BioVendor		1,37	0,039	2,9	13	0						13		
(58) Beckman Coulter (Olympus)		1,29	0,06	4,7	51	0						51		
(60) Roche		1,33	0,037	2,8	96	0						96		
(149) Siemens (Dade)		1,43	0,052	3,6	10	0						10		
(177) MINDRAY		1,35	0,022	1,7	6	0						6		
(179) Siemens (Bayer)		1,37	0,064	4,6	25	0						25		
Other					19	0						19		
							2x 5, 1x 32, 4x 70, 1x 75, 1x 121, 3x 158, 2x 166, 4x 178, 1x 999							
Sample B		2,04	0,10	5,0	284	CVP	2,04	0,015	15%	1,73	2,35	284	277	98%

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EQA round: RFA2/17 - Risk Factors for Atherosclerosis

Dead line: 15.09.2017

Test	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability									
							AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}		
(113) Cholesterol HDL					284							284	273	96%		
Samples and groups	[mmol/L]															
Sample B		2,04	0,10	5,0	284		CVP	2,04	0,015	15%	1,73	2,35	284	277	98%	
(1) Abbott		2,02	0,061	3,0	33	0							33			
(12) Beckman Coulter		2,08	0,12	5,8	12	0							12			
(46) Erba Lachema		2,06	0,13	6,3	19	0							19			
(49) BioVendor		2,06	0,085	4,1	13	0							13			
(58) Beckman Coulter (Olympus)		1,99	0,11	5,6	51	0							51			
(60) Roche		2,01	0,061	3,0	96	0							96			
(149) Siemens (Dade)		2,11	0,10	4,9	10	0							10			
(177) MINDRAY		2,03	0,059	2,9	6	0							6			
(179) Siemens (Bayer)		2,20	0,095	4,3	25	0							25			
Other					19	0							19			
								2x 5, 1x 32, 4x 70, 1x 75, 1x 121, 3x 158, 2x 166, 4x 178, 1x 999								
(114) Apolipoprotein AI					92								92	87	95%	
Samples and groups	[g/L]															
Sample A		1,50	0,10	7,0	92		CVP	1,5	0,027	21%	1,18	1,82	92	89	97%	
(1) Abbott		1,54	0,059	3,9	8	0							8			
(12) Beckman Coulter		1,55	0,12	7,7	7	0							7			
(49) BioVendor		1,63	0,27	16	7	0							7			
(58) Beckman Coulter (Olympus)		1,44	0,11	7,4	17	0							17			
(60) Roche		1,48	0,061	4,1	30	0							30			
(149) Siemens (Dade)		1,51	0,11	7,4	6	0							6			
(179) Siemens (Bayer)		1,51	0,13	8,8	10	0							10			
Other					7	0							7			
								2x 46, 2x 116, 1x 177, 2x 178								
Sample B		2,30	0,15	6,3	92		CVP	2,3	0,037	21%	1,81	2,79	92	89	97%	
(1) Abbott		2,29	0,16	7,1	8	0							8			
(12) Beckman Coulter		2,34	0,24	10	7	0							7			
(49) BioVendor		2,40	0,32	13	7	0							7			
(58) Beckman Coulter (Olympus)		2,21	0,13	5,8	17	0							17			
(60) Roche		2,31	0,064	2,7	30	0							30			
(149) Siemens (Dade)		2,25	0,10	4,6	6	0							6			
(179) Siemens (Bayer)		2,32	0,22	9,6	10	0							10			
Other					7	0							7			
								2x 46, 2x 116, 1x 177, 2x 178								
(115) Apolipoprotein B					108								108	103	95%	
Samples and groups	[g/L]															
Sample A		0,979	0,055	5,6	108		CVP	0,979	0,013	18%	0,802	1,16	108	104	96%	
(1) Abbott		0,981	0,046	4,6	10	0							10			
(12) Beckman Coulter		0,979	0,073	7,4	8	0							8			
(49) BioVendor		0,970	0,089	9,2	7	0							7			
(58) Beckman Coulter (Olympus)		0,980	0,046	4,7	20	0							20			
(60) Roche		0,984	0,033	3,3	39	0							39			
(149) Siemens (Dade)		0,855	0,022	2,6	6	0							6			
(179) Siemens (Bayer)		1,03	0,084	8,1	10	0							10			
Other					8	0							8			
								2x 46, 2x 116, 1x 177, 3x 178								
Sample B		1,46	0,096	6,6	108		CVP	1,46	0,023	18%	1,19	1,73	108	107	99%	
(1) Abbott		1,44	0,076	5,3	10	0							10			
(12) Beckman Coulter		1,52	0,067	4,4	8	0							8			
(49) BioVendor		1,45	0,13	9,2	7	0							7			
(58) Beckman Coulter (Olympus)		1,44	0,12	8,3	20	0							20			
(60) Roche		1,49	0,06	4,0	39	0							39			
(149) Siemens (Dade)		1,33	0,022	1,7	6	0							6			
(179) Siemens (Bayer)		1,51	0,13	8,5	10	0							10			
Other					8	0							8			
								2x 46, 2x 116, 1x 177, 3x 178								
(116) Cholesterol LDL (calculation)					143								143	136	95%	
Samples and groups	[mmol/L]															
Sample A		2,91	0,19	6,5	143		CVP	2,91	0,039	15%	2,47	3,35	143	139	97%	
(0) not specified		2,91	0,19	6,5	143	0							143			
Sample B		4,46	0,30	6,6	143		CVP	4,46	0,061	15%	3,79	5,13	143	139	97%	
(0) not specified		4,46	0,30	6,6	143	0							143			
(118) Cholesterol LDL (direct determ.)					192								192	186	97%	
Samples and groups	[mmol/L]															
Sample A		2,99	0,17	5,7	192		CVP	2,99	0,030	15%	2,54	3,44	192	190	99%	
(1) Abbott		3,06	0,077	2,5	16	0							16			
(12) Beckman Coulter		3,08	0,18	5,8	7	0							7			
(32) Human		3,03	0,11	3,7	6	0							6			
(46) Erba Lachema		3,08	0,22	7,3	12	0							12			
(49) BioVendor		2,88	0,14	4,9	11	0							11			
(58) Beckman Coulter (Olympus)		3,17	0,13	4,0	40	0							40			

Summary statistics - quantitative results

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Dead line: 15.09.2017

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]				192							192	186	97%		
----- Samples and groups -----																
Sample A		2,99	0,17	5,7	192		CVP	2,99	0,030	15%	2,54	3,44	192	190	99%	
(60) Roche		2,87	0,086	3,0	58	0							58			
(149) Siemens (Dade)		2,92	0,059	2,0	6	0							6			
(179) Siemens (Bayer)		2,95	0,13	4,5	18	0							18			
Other					18	0							18			
							2x 5, 3x 70, 3x 158, 1x 166, 4x 177, 3x 178, 1x 196, 1x 999									
Sample B		4,53	0,29	6,4	192		CVP	4,53	0,051	15%	3,85	5,21	192	187	97%	
(1) Abbott		4,74	0,13	2,7	16	0							16			
(12) Beckman Coulter		4,66	0,22	4,6	7	0							7			
(32) Human		4,75	0,082	1,7	6	0							6			
(46) Erba Lachema		4,60	0,36	7,7	12	0							12			
(49) BioVendor		4,43	0,33	7,4	11	0							11			
(58) Beckman Coulter (Olympus)		4,75	0,20	4,2	40	0							40			
(60) Roche		4,28	0,15	3,5	58	0							58			
(149) Siemens (Dade)		4,44	0,065	1,5	6	0							6			
(179) Siemens (Bayer)		4,61	0,21	4,5	18	0							18			
Other					18	0							18			
							2x 5, 3x 70, 3x 158, 1x 166, 4x 177, 3x 178, 1x 196, 1x 999									
(117) Lipoprotein (a) [g/L]	[g/L]				27								27	27	100%	
----- Samples and groups -----																
Sample A		0,260	0,019	7,1	27		CVP	0,26	,0087	32%	0,176	0,344	27	27	100%	
(179) Siemens (Bayer)		0,263	0,01	4,0	5	0							5			
Other					22	0							22			
							4x 12, 1x 49, 4x 58, 2x 60, 4x 75, 2x 91, 3x 116, 1x 152, 1x 178									
Sample B		0,364	0,025	6,8	27		CVP	0,364	0,012	32%	0,247	0,481	27	27	100%	
(179) Siemens (Bayer)		0,368	0,003	1,0	5	0							5			
Other					22	0							22			
							4x 12, 1x 49, 4x 58, 2x 60, 4x 75, 2x 91, 3x 116, 1x 152, 1x 178									
(119) Lipoprotein (a) [nmol/L]	[nmol/L]				24								24	23	96%	
----- Samples and groups -----																
Sample A		51,7	5,3	10	24		CVP	51,7	2,6	20%	41,3	62,1	24	24	100%	
(60) Roche		50,4	4,3	8,5	18	0							18			
Other					6	0							6			
							1x 0, 1x 1, 2x 49, 1x 75, 1x 116									
Sample B		76,9	8,4	11	24		CVP	76,9	4,2	20%	61,5	92,3	24	23	96%	
(60) Roche		74,2	5,9	8,0	18	0							18			
Other					6	0							6			
							1x 0, 1x 1, 2x 49, 1x 75, 1x 116									

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End of report

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