

Summary statistics - quantitative results

(Groups: manufacturer of kit)

Filter: minimal size of the groups n = 5

EQA round: RFA1/21 - Risk Factors for Atherosclerosis

Deadline: 09.04.2021

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					303							303	283	93%
— Samples and groups	[mmol/L]													
Sample A		3,74	0,12	3,3	303	CVP	3,74	0,017	8%	3,44	4,04	303	293	97%
(1) Abbott		3,75	0,072	1,9	76	0						76		
(12) Beckman Coulter		3,74	0,096	2,6	6	0						6		
(46) Erba Lachema		3,79	0,12	3,1	10	0						10		
(49) BioVendor		3,85	0,22	5,8	7	0						7		
(58) Beckman Coulter (AU)		3,90	0,13	3,3	50	0						50		
(60) Roche		3,66	0,084	2,3	96	0						96		
(149) Siemens (Dade, BN, Dimension)		3,81	0,13	3,3	10	0						10		
(162) Siemens (Atellica)		3,70	0,10	2,8	15	0						15		
(177) Mindray		3,74	0,12	3,2	7	0						7		
(179) Siemens		3,74	0,072	1,9	18	0						18		
Other					8	0						8		
							2x 5, 1x 32, 1x 121, 1x 166, 3x 178							
Sample B		7,92	0,29	3,6	303	CVP	7,92	0,041	8%	7,28	8,56	303	285	94%
(1) Abbott		7,89	0,16	2,0	76	0						76		
(12) Beckman Coulter		8,09	0,17	2,1	6	0						6		
(46) Erba Lachema		8,12	0,40	5,0	10	0						10		
(49) BioVendor		8,15	0,52	6,4	7	0						7		
(58) Beckman Coulter (AU)		8,33	0,28	3,4	50	0						50		
(60) Roche		7,76	0,18	2,3	96	0						96		
(149) Siemens (Dade, BN, Dimension)		8,03	0,38	4,7	10	0						10		
(162) Siemens (Atellica)		7,73	0,25	3,3	15	0						15		
(177) Mindray		8,13	0,10	1,3	7	0						7		
(179) Siemens		7,87	0,16	2,0	18	0						18		
Other					8	0						8		
							2x 5, 1x 32, 1x 121, 1x 166, 3x 178							
(112) Triacylglycerols					303							303	300	99%
— Samples and groups	[mmol/L]													
Sample A		1,18	0,046	3,9	303	CVP	1,18	,0064	15%	1	1,36	303	300	99%
(1) Abbott		1,16	0,041	3,6	76	0						76		
(12) Beckman Coulter		1,10	0,000	0,00	5	0						5		
(46) Erba Lachema		1,18	0,045	3,8	12	0						12		
(49) BioVendor		1,15	0,089	7,7	7	0						7		
(58) Beckman Coulter (AU)		1,16	0,033	2,8	49	0						49		
(60) Roche		1,20	0,03	2,5	96	0						96		
(149) Siemens (Dade, BN, Dimension)		1,14	0,097	8,6	10	0						10		
(162) Siemens (Atellica)		1,23	0,04	3,2	15	0						15		
(177) Mindray		1,17	0,03	2,5	7	0						7		
(179) Siemens		1,20	0,031	2,6	18	0						18		
Other					8	0						8		
							2x 5, 1x 32, 1x 121, 1x 166, 3x 178							
Sample B		2,42	0,065	2,7	303	CVP	2,42	,0091	15%	2,05	2,79	303	301	99%
(1) Abbott		2,42	0,061	2,5	76	0						76		
(12) Beckman Coulter		2,34	0,052	2,2	5	0						5		
(46) Erba Lachema		2,44	0,12	4,7	12	0						12		
(49) BioVendor		2,29	0,16	7,1	7	0						7		
(58) Beckman Coulter (AU)		2,41	0,056	2,3	49	0						49		
(60) Roche		2,42	0,059	2,4	96	0						96		
(149) Siemens (Dade, BN, Dimension)		2,47	0,077	3,1	10	0						10		
(162) Siemens (Atellica)		2,45	0,052	2,1	15	0						15		
(177) Mindray		2,44	0,067	2,7	7	0						7		
(179) Siemens		2,45	0,061	2,5	18	0						18		
Other					8	0						8		
							2x 5, 1x 32, 1x 121, 1x 166, 3x 178							
(113) Cholesterol HDL					305							305	298	98%
— Samples and groups	[mmol/L]													
Sample A		0,998	0,044	4,4	305	CVP	0,998	,0061	15%	0,848	1,15	305	298	98%
(1) Abbott		1,01	0,032	3,2	75	0						75		
(12) Beckman Coulter		0,980	0,015	1,5	6	0						6		
(46) Erba Lachema		1,02	0,064	6,3	10	0						10		
(49) BioVendor		1,08	0,11	10	7	0						7		
(58) Beckman Coulter (AU)		0,978	0,029	3,0	47	0						47		
(60) Roche		0,994	0,029	2,9	94	0						94		
(149) Siemens (Dade, BN, Dimension)		1,11	0,057	5,2	10	0						10		

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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					305							305	298	98%	
Samples and groups															
Sample A	[mmol/L]				305		CVP	0,998	,0061	15%	0,848	1,15	305	298	98%
(162) Siemens (Atellica)		0,943	0,024	2,6	15	0							15		
(177) Mindray		1,04	0,015	1,4	6	0							6		
(179) Siemens		0,956	0,053	5,5	17	0							17		
Other					18	0							18		

Sample B		2,17	0,093	4,3	305		CVP	2,17	0,013	15%	1,84	2,5	305	301	99%
(1) Abbott		2,22	0,069	3,1	75	0							75		
(12) Beckman Coulter		2,18	0,037	1,7	6	0							6		
(46) Erba Lachema		2,20	0,092	4,2	10	0							10		
(49) BioVendor		2,20	0,16	7,4	7	0							7		
(58) Beckman Coulter (AU)		2,17	0,083	3,8	47	0							47		
(60) Roche		2,10	0,086	4,1	94	0							94		
(149) Siemens (Dade, BN, Dimension)		2,22	0,065	2,9	10	0							10		
(162) Siemens (Atellica)		2,16	0,064	2,9	15	0							15		
(177) Mindray		2,18	0,12	5,4	6	0							6		
(179) Siemens		2,21	0,096	4,3	17	0							17		
Other					18	0							18		

(114) Apolipoprotein AI					90							90	90	100%	
Samples and groups															
Sample A	[g/L]	1,15	0,063	5,5	90		CVP	1,15	0,016	21%	0,908	1,4	90	90	100%
(1) Abbott		1,17	0,039	3,3	20	0							20		
(58) Beckman Coulter (AU)		1,15	0,08	7,0	17	0							17		
(60) Roche		1,14	0,041	3,6	25	0							25		
(149) Siemens (Dade, BN, Dimension)		1,17	0,059	5,1	6	0							6		
(179) Siemens		1,11	0,16	15	7	0							7		
Other					15	0							15		

Sample B		2,38	0,18	7,4	90		CVP	2,38	0,046	21%	1,88	2,88	90	90	100%
(1) Abbott		2,50	0,13	5,2	20	0							20		
(58) Beckman Coulter (AU)		2,27	0,18	8,1	17	0							17		
(60) Roche		2,45	0,072	3,0	25	0							25		
(149) Siemens (Dade, BN, Dimension)		2,31	0,14	6,1	6	0							6		
(179) Siemens		2,26	0,16	7,2	7	0							7		
Other					15	0							15		

(115) Apolipoprotein B					105							105	103	98%	
Samples and groups															
Sample A	[g/L]	0,718	0,034	4,7	105		CVP	0,718	,0081	18%	0,588	0,848	105	104	99%
(1) Abbott		0,722	0,021	3,0	24	0							24		
(58) Beckman Coulter (AU)		0,692	0,049	7,1	19	0							19		
(60) Roche		0,734	0,027	3,7	34	0							34		
(149) Siemens (Dade, BN, Dimension)		0,692	0,013	1,8	5	0							5		
(179) Siemens		0,690	0,045	6,4	7	0							7		
Other					16	0							16		

Sample B		1,49	0,087	5,9	105		CVP	1,49	0,021	18%	1,22	1,76	105	104	99%
(1) Abbott		1,49	0,05	3,3	24	0							24		
(58) Beckman Coulter (AU)		1,43	0,071	5,0	19	0							19		
(60) Roche		1,54	0,056	3,6	34	0							34		
(149) Siemens (Dade, BN, Dimension)		1,44	0,037	2,6	5	0							5		
(179) Siemens		1,44	0,12	8,2	7	0							7		
Other					16	0							16		

(116) Cholesterol LDL (calculation)					130							130	125	96%	
Samples and groups															
Sample A	[mmol/L]	2,23	0,13	5,7	130		CVP	2,23	0,027	15%	1,89	2,57	130	127	98%
(0) not specified		2,23	0,13	5,7	130	1							130		
Sample B		4,71	0,25	5,3	130		CVP	4,71	0,054	15%	4	5,42	130	128	98%
(0) not specified		4,71	0,25	5,3	130	0							130		

(118) Cholesterol LDL (direct determ.)					226							226	217	96%	
Samples and groups															
Sample A	[mmol/L]	2,32	0,17	7,1	226		CVP	2,32	0,027	15%	1,97	2,67	226	220	97%
(1) Abbott		2,37	0,066	2,8	61	0							61		
(46) Erba Lachema		2,42	0,082	3,4	9	0							9		
(49) BioVendor		2,03	0,19	9,2	6	0							6		
(58) Beckman Coulter (AU)		2,46	0,065	2,6	38	0							38		
(60) Roche		2,15	0,073	3,4	63	0							63		
(149) Siemens (Dade, BN, Dimension)		2,24	0,085	3,8	6	0							6		

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Test	[unit]					Comparability							N _{eva}	N _{suc}	S _{rel}
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL				
(118) Cholesterol LDL (direct determ.)	[mmol/L]				226								226	217	96%
Samples and groups															
Sample A		2,32	0,17	7,1	226	CVP	2,32	0,027	15%	1,97	2,67		226	220	97%
(162) Siemens (Atellica)		2,46	0,098	4,0	11	0							11		
(179) Siemens		2,38	0,16	6,8	12	0							12		
Other					20	0							20		
							1x 0, 2x 5, 4x 12, 1x 20, 3x 70, 3x 158, 4x 177, 2x 178								
Sample B		4,92	0,40	8,2	226	CVP	4,92	0,066	15%	4,18	5,66		226	219	97%
(1) Abbott		5,16	0,16	3,1	61	0							61		
(46) Erba Lachema		5,05	0,24	4,8	9	0							9		
(49) BioVendor		4,33	0,46	11	6	0							6		
(58) Beckman Coulter (AU)		5,13	0,14	2,7	38	0							38		
(60) Roche		4,49	0,16	3,6	63	0							63		
(149) Siemens (Dade, BN, Dimension)		4,79	0,22	4,6	6	0							6		
(162) Siemens (Atellica)		5,33	0,17	3,3	11	0							11		
(179) Siemens		5,25	0,38	7,2	12	0							12		
Other					20	0							20		
							1x 0, 2x 5, 4x 12, 1x 20, 3x 70, 3x 158, 4x 177, 2x 178								
(117) Lipoprotein (a) [g/L]	[g/L]				33							33	33	100%	
Samples and groups															
Sample A		0,179	0,018	10	33	CVP	0,179	,0076	32%	0,121	0,237		33	33	100%
(1) Abbott		0,176	0,005	3,4	9	0							9		
(75) Randox		0,185	0,007	4,0	5	0							5		
Other					19	0							19		
							2x 12, 2x 58, 2x 60, 2x 116, 1x 149, 1x 152, 4x 162, 1x 178, 4x 179								
Sample B		0,390	0,023	6,0	33	CVP	0,39	,0100	32%	0,265	0,515		33	33	100%
(1) Abbott		0,381	0,016	4,3	9	0							9		
(75) Randox		0,415	0,007	1,8	5	0							5		
Other					19	0							19		
							2x 12, 2x 58, 2x 60, 2x 116, 1x 149, 1x 152, 4x 162, 1x 178, 4x 179								
(119) Lipoprotein (a) [nmol/L]	[nmol/L]				29							29	27	93%	
Samples and groups															
Sample A		31,8	3,0	9,5	29	CVP	31,8	1,4	20%	25,4	38,2		29	27	93%
(60) Roche		31,6	2,1	6,5	22	0							22		
Other					7	0							7		
							1x 0, 1x 1, 1x 49, 1x 75, 1x 91, 1x 116, 1x 162								
Sample B		78,5	4,4	5,6	29	CVP	78,5	2,0	20%	62,8	94,2		29	28	97%
(60) Roche		77,4	3,1	4,0	22	0							22		
Other					7	0							7		
							1x 0, 1x 1, 1x 49, 1x 75, 1x 91, 1x 116, 1x 162								

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End of report

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