

EQA round: KO3/23 - Blood Count

Deadline: 19.5.2023

Setup: groups - measuring system; minimal size of the groups n = 5

RoM = robust average	AV = assigned value	D _{max} = acceptable difference
SD = standard deviation	CVP = consensus of all participants	LL = lower limit
CV = coefficient of variation	CVPG = consensus of the participants' groups	UL = upper limit
N _{tot} = total number of the results	U _{AV} = expanded uncertainty of the assigned value (k = 2)	N _{eva} = number of the results assessed
N _{out} = number of the results removed before calculation		N _{suc} = number of successful results
		S _{rel} = relative success

Test Sample Group	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability					N _{eva}	N _{suc}	S _{rel} [%]	
							AV	U _{AV}	D _{max}	LL	UL				
(150) WBC	[·10 ⁹ /L]				197							197	197	100	
Sample A		5,55	0,17	3,1	197		CVP	5,55	0,03	15%	4,71	6,39	197	197	100
(737) Siemens Advia 120, 2120, 2120i		5,42	0,14	2,6	16	0							16		
(749) Sysmex XE, XS, XT series		5,62	0,2	3,6	7	0							7		
(755) Sysmex KX series		5,55	0,17	3,1	10	0							10		
(765) Abbott CELL-DYN Ruby		5,44	0,17	3,1	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		5,3	0,15	2,8	8	0							8		
(771) MINDRAY BC 6xxx series		5,55	0,12	2,2	28	0							28		
(772) Sysmex XN series		5,63	0,13	2,3	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		5,4	0,3	5,5	8	0							8		
(999) another system		5,37	0,067	1,2	5	0							5		
Other					17	0							17		
								1x 702, 1x 706, 4x 716, 1x 718, 4x 741, 4x 743, 1x 763, 1x 768							
Sample B		5,36	0,17	3,2	197		CVP	5,36	0,03	15%	4,55	6,17	197	197	100
(737) Siemens Advia 120, 2120, 2120i		5,21	0,26	5	16	0							16		
(749) Sysmex XE, XS, XT series		5,41	0,21	3,8	7	0							7		
(755) Sysmex KX series		5,4	0,15	2,8	10	0							10		
(765) Abbott CELL-DYN Ruby		5,14	0,26	5,1	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		5,15	0,22	4,3	8	0							8		
(771) MINDRAY BC 6xxx series		5,34	0,15	2,7	28	0							28		
(772) Sysmex XN series		5,44	0,11	2,1	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		5,35	0,074	1,4	8	0							8		
(999) another system		5,21	0,13	2,6	5	0							5		
Other					17	0							17		
								1x 702, 1x 706, 4x 716, 1x 718, 4x 741, 4x 743, 1x 763, 1x 768							
(151) RBC	[·10 ¹² /L]				197								197	197	100
Sample A		4,39	0,066	1,5	197		CVP	4,39	0,012	7%	4,08	4,7	197	197	100
(737) Siemens Advia 120, 2120, 2120i		4,39	0,098	2,2	16	0							16		
(749) Sysmex XE, XS, XT series		4,4	0,096	2,2	7	0							7		
(755) Sysmex KX series		4,4	0,046	1,1	10	0							10		
(765) Abbott CELL-DYN Ruby		4,48	0,074	1,7	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		4,41	0,25	5,7	8	0							8		
(771) MINDRAY BC 6xxx series		4,39	0,077	1,8	28	0							28		
(772) Sysmex XN series		4,39	0,049	1,1	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,37	0,052	1,2	8	0							8		
(999) another system		4,41	0,022	0,5	5	0							5		
Other					17	0							17		
								1x 702, 1x 706, 4x 716, 1x 718, 4x 741, 4x 743, 1x 763, 1x 768							
Sample B		5,06	0,077	1,5	197		CVP	5,06	0,013	7%	4,7	5,42	197	197	100
(737) Siemens Advia 120, 2120, 2120i		5,08	0,08	1,6	16	0							16		
(749) Sysmex XE, XS, XT series		5,05	0,11	2,2	7	0							7		
(755) Sysmex KX series		5,06	0,085	1,7	10	0							10		
(765) Abbott CELL-DYN Ruby		5,07	0,074	1,5	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		5,04	0,25	5	8	0							8		
(771) MINDRAY BC 6xxx series		5,08	0,094	1,9	28	0							28		
(772) Sysmex XN series		5,06	0,064	1,3	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		5	0,052	1	8	0							8		
(999) another system		5,03	0,03	0,59	5	0							5		
Other					17	0							17		
								1x 702, 1x 706, 4x 716, 1x 718, 4x 741, 4x 743, 1x 763, 1x 768							
(152) Haemoglobin	[g/L]				197								197	197	100
Sample A		144	2,1	1,5	197		CVP	144	0,37	6%	135	153	197	197	100
(737) Siemens Advia 120, 2120, 2120i		146	2,5	1,7	16	0							16		
(749) Sysmex XE, XS, XT series		145	1,6	1,1	7	0							7		
(755) Sysmex KX series		144	2,4	1,7	10	0							10		
(765) Abbott CELL-DYN Ruby		147	1,5	1	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		146	3,7	2,5	8	0							8		
(771) MINDRAY BC 6xxx series		145	2,1	1,5	28	0							28		
(772) Sysmex XN series		144	1,6	1,1	91	0							91		

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Test Sample Group	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability					N _{eva}	N _{suc}	S _{rel} [%]	
							AV	U _{AV}	D _{max}	LL	UL				
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		143	1,5	1	8	0						8			
(999) another system		142	1,9	1,3	5	0						5			
Other					17	0						17			
							1x 702, 1x 706, 4x 716, 1x 718, 4x 741, 4x 743, 1x 763, 1x 768								
Sample B		147	2,2	1,5	197		CVP	147	0,38	6%	138	156	197	197	100
(737) Siemens Advia 120, 2120, 2120i		148	2,6	1,7	16	0							16		
(749) Sysmex XE, XS, XT series		148	1,6	1,1	7	0							7		
(755) Sysmex KX series		146	2,1	1,4	10	0							10		
(765) Abbott CELL-DYN Ruby		150	2,2	1,5	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		148	4,4	3	8	0							8		
(771) MINDRAY BC 6xxx series		148	2,3	1,5	28	0							28		
(772) Sysmex XN series		147	1,7	1,1	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		145	3	2	8	0							8		
(999) another system		145	2,4	1,7	5	0							5		
Other					17	0							17		
							1x 702, 1x 706, 4x 716, 1x 718, 4x 741, 4x 743, 1x 763, 1x 768								
(153) HCT	[-]				197								197	195	99
Sample A		0,437	0,011	2,4	197		CVP	0,437	0,002	10%	0,393	0,481	197	196	99
(737) Siemens Advia 120, 2120, 2120i		0,441	0,012	2,7	16	0							16		
(749) Sysmex XE, XS, XT series		0,436	0,013	3,1	7	0							7		
(755) Sysmex KX series		0,438	0,009	2	10	1							10		
(765) Abbott CELL-DYN Ruby		0,438	0,013	2,9	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		0,437	0,03	6,8	8	0							8		
(771) MINDRAY BC 6xxx series		0,435	0,011	2,5	28	0							28		
(772) Sysmex XN series		0,439	0,007	1,7	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,427	0,004	1	8	0							8		
(999) another system		0,432	0,002	0,51	5	0							5		
Other					17	0							17		
							1x 702, 1x 706, 4x 716, 1x 718, 4x 741, 4x 743, 1x 763, 1x 768								
Sample B		0,433	0,01	2,3	197		CVP	0,433	0,002	10%	0,389	0,477	197	196	99
(737) Siemens Advia 120, 2120, 2120i		0,44	0,008	1,9	16	0							16		
(749) Sysmex XE, XS, XT series		0,423	0,01	2,5	7	0							7		
(755) Sysmex KX series		0,429	0,015	3,5	10	0							10		
(765) Abbott CELL-DYN Ruby		0,435	0,01	2,4	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		0,433	0,022	5	8	0							8		
(771) MINDRAY BC 6xxx series		0,434	0,01	2,4	28	0							28		
(772) Sysmex XN series		0,434	0,007	1,6	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,426	0,006	1,4	8	0							8		
(999) another system		0,425	0,007	1,7	5	0							5		
Other					17	0							17		
							1x 702, 1x 706, 4x 716, 1x 718, 4x 741, 4x 743, 1x 763, 1x 768								
(154) MCV	[fL]				197								197	197	100
Sample A		99,4	1,9	2	197		CVP	99,4	0,34	10%	89,4	110	197	197	100
(737) Siemens Advia 120, 2120, 2120i		100	2,2	2,2	16	0							16		
(749) Sysmex XE, XS, XT series		98,3	2,6	2,6	7	0							7		
(755) Sysmex KX series		99,1	1,9	1,9	10	0							10		
(765) Abbott CELL-DYN Ruby		98,3	2	2	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		97,4	4	4,1	8	0							8		
(771) MINDRAY BC 6xxx series		98,8	2,4	2,4	28	0							28		
(772) Sysmex XN series		100	1,2	1,2	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		98,5	1,3	1,3	8	0							8		
(999) another system		97,5	1,5	1,5	5	0							5		
Other					17	0							17		
							1x 702, 1x 706, 4x 716, 1x 718, 4x 741, 4x 743, 1x 763, 1x 768								
Sample B		85,5	1,5	1,8	197		CVP	85,5	0,27	10%	76,9	94,1	197	197	100
(737) Siemens Advia 120, 2120, 2120i		86,6	1,8	2,1	16	0							16		
(749) Sysmex XE, XS, XT series		83,1	2	2,4	7	0							7		
(755) Sysmex KX series		84,8	1,6	1,9	10	0							10		
(765) Abbott CELL-DYN Ruby		85,5	1,2	1,4	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		84,6	3,8	4,5	8	0							8		
(771) MINDRAY BC 6xxx series		85,5	2,2	2,6	28	0							28		
(772) Sysmex XN series		85,8	0,94	1,1	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		85,1	0,89	1	8	0							8		
(999) another system		84,7	1,6	1,8	5	0							5		

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Test Sample Group	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability						N _{eva}	N _{suc}	S _{rel} [%]		
							AV	U _{AV}	D _{max}	LL	UL						
Other					17	0									17		
							1x 702, 1x 706, 4x 716, 1x 718, 4x 741, 4x 743, 1x 763, 1x 768										
(155) Platelets	[-10⁹/L]				197										197	196	99
Sample A		154	7,2	4,7	197		CVP	154	1,3	18%	126	182		197	196	99	
(737) Siemens Advia 120, 2120, 2120i		147	13	9,1	16	0								16			
(749) Sysmex XE, XS, XT series		150	3,3	2,2	7	0								7			
(755) Sysmex KX series		151	8,2	5,4	10	0								10			
(765) Abbott CELL-DYN Ruby		147	7,4	5	7	0								7			
(766) MINDRAY BC 2xxx, 3xxx series		159	10	6,5	8	0								8			
(771) MINDRAY BC 6xxx series		153	9,8	6,4	28	0								28			
(772) Sysmex XN series		157	4,9	3,1	91	0								91			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		148	6,7	4,5	8	0								8			
(999) another system		169	6,1	3,6	5	0								5			
Other					17	0								17			
							1x 702, 1x 706, 4x 716, 1x 718, 4x 741, 4x 743, 1x 763, 1x 768										
Sample B		154	8,1	5,3	197		CVP	154	1,4	18%	126	182		197	197	100	
(737) Siemens Advia 120, 2120, 2120i		144	8,8	6,1	16	0								16			
(749) Sysmex XE, XS, XT series		153	3	1,9	7	0								7			
(755) Sysmex KX series		153	8,9	5,8	10	0								10			
(765) Abbott CELL-DYN Ruby		150	6,7	4,5	7	0								7			
(766) MINDRAY BC 2xxx, 3xxx series		154	9,6	6,3	8	0								8			
(771) MINDRAY BC 6xxx series		153	12	8	28	0								28			
(772) Sysmex XN series		157	5,1	3,2	91	0								91			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		145	6,7	4,6	8	0								8			
(999) another system		154	25	16	5	0								5			
Other					17	0								17			
							1x 702, 1x 706, 4x 716, 1x 718, 4x 741, 4x 743, 1x 763, 1x 768										
(156) RDW	[%]				179									168	161	96	
Sample A		14	0,41	2,9	179									168	164	98	
(1) Abbott; (765) Abbott CELL-DYN Ruby		12,5	0,67	5,4	6	0	CVPG	12,6	0,62	10%	11,3	13,9		6			
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		14,3	0,37	2,6	8	0	CVPG	14,3	0,46	10%	12,8	15,8		8			
(63) Sysmex; (749) Sysmex XE, XS, XT series		14,6	0,22	1,5	7	0	CVPG	14,2	0,057	10%	12,7	15,7		7			
(63) Sysmex; (755) Sysmex KX series		13,9	0,4	2,9	5	2	CVPG	14,2	0,057	10%	12,7	15,7		5			
(63) Sysmex; (772) Sysmex XN series		14,1	0,2	1,4	89	0	CVPG	14,2	0,057	10%	12,7	15,7		89			
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		14,4	0,074	0,52	7	0	CVPG	13,8	0,17	10%	12,4	15,2		7			
(177) Mindray; (771) MINDRAY BC 6xxx series		13,6	0,2	1,5	26	1	CVPG	13,8	0,17	10%	12,4	15,2		26			
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		13,8	0,33	2,4	15	0	CVPG	13,8	0,21	10%	12,4	15,2		15			
Other					16	0								5			
							1x 1/702, 1x 1/763, 1x 12/718, 3x 46/999, 4x 157/741, 2x 177/999, 3x 204/716, 1x 205/706										
Sample B		13,6	0,45	3,3	179									168	161	96	
(1) Abbott; (765) Abbott CELL-DYN Ruby		11,6	0,52	4,5	6	0	CVPG	12,8	1,8	10%	11,5	14,1		6			
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		14,1	0,15	1,1	8	0	CVPG	14,1	0,18	10%	12,6	15,6		8			
(63) Sysmex; (749) Sysmex XE, XS, XT series		14	0,074	0,53	7	0	CVPG	13,4	0,051	10%	12	14,8		7			
(63) Sysmex; (755) Sysmex KX series		13,4	0,16	1,2	5	2	CVPG	13,4	0,051	10%	12	14,8		5			
(63) Sysmex; (772) Sysmex XN series		13,3	0,19	1,4	89	0	CVPG	13,4	0,051	10%	12	14,8		89			
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		14	0,3	2,1	7	0	CVPG	13,9	0,089	10%	12,5	15,3		7			
(177) Mindray; (771) MINDRAY BC 6xxx series		13,9	0,2	1,4	26	1	CVPG	13,9	0,089	10%	12,5	15,3		26			
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		13,9	0,3	2,2	15	0	CVPG	13,9	0,19	10%	12,5	15,3		15			
Other					16	0								5			
							1x 1/702, 1x 1/763, 1x 12/718, 3x 46/999, 4x 157/741, 2x 177/999, 3x 204/716, 1x 205/706										
(157) MPV	[fL]				177									167	163	98	
Sample A		11,7	0,47	4	177									167	166	99	
(1) Abbott; (765) Abbott CELL-DYN Ruby		7,63	0,62	8,2	5	0	CVPG	7,67	0,66	18%	6,28	9,06		5			
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		10,3	0,44	4,3	8	0	CVPG	10,3	0,5	18%	8,44	12,2		8			
(63) Sysmex; (749) Sysmex XE, XS, XT series		12	0,37	3,1	8	0	CVPG	11,8	0,063	18%	9,67	14		8			
(63) Sysmex; (755) Sysmex KX series		11,9	0,3	2,5	6	0	CVPG	11,8	0,063	18%	9,67	14		6			
(63) Sysmex; (772) Sysmex XN series		11,8	0,25	2,2	87	0	CVPG	11,8	0,063	18%	9,67	14		87			

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							AV	U _{AV}	D _{max}	LL	UL				
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		11,4	0,32	2,8	6	0	CVPG	11,9	0,21	18%	9,75	14,1	6		
(177) Mindray; (771) MINDRAY BC 6xxx series		12	0,43	3,6	28	0	CVPG	11,9	0,21	18%	9,75	14,1	28		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		12,4	0,68	5,5	14	0	CVPG	12,4	0,45	18%	10,1	14,7	14		
Other					15	0							5		
															1x 1/702, 1x 1/763, 1x 12/718, 3x 46/999, 3x 157/741, 2x 177/999, 3x 204/716, 1x 205/706
Sample B		12	0,54	4,5	177								167	164	98
(1) Abbott; (765) Abbott CELL-DYN Ruby		8,91	0,62	6,9	5	0	CVPG	8,72	1,6	18%	7,15	10,3	5		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		10,1	0,74	7,3	8	0	CVPG	10,2	0,73	18%	8,36	12,1	8		
(63) Sysmex; (749) Sysmex XE, XS, XT series		12,1	0,37	3,1	8	0	CVPG	12,1	0,078	18%	9,92	14,3	8		
(63) Sysmex; (755) Sysmex KX series		12,4	0,67	5,4	6	0	CVPG	12,1	0,078	18%	9,92	14,3	6		
(63) Sysmex; (772) Sysmex XN series		12,1	0,3	2,4	87	1	CVPG	12,1	0,078	18%	9,92	14,3	87		
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		11,4	0,99	8,6	6	0	CVPG	12,3	0,21	18%	10	14,6	6		
(177) Mindray; (771) MINDRAY BC 6xxx series		12,4	0,34	2,7	28	0	CVPG	12,3	0,21	18%	10	14,6	28		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		11,9	0,68	5,7	14	0	CVPG	11,9	0,44	18%	9,75	14,1	14		
Other					15	0							5		
															1x 1/702, 1x 1/763, 1x 12/718, 3x 46/999, 3x 157/741, 2x 177/999, 3x 204/716, 1x 205/706
(158) PDW [%]	[%]				24								16	15	94
Sample A		34,1	22	66	24								16	15	94
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		17,4	0,3	1,7	5	0	CVPG	17,4	0,84	15%	14,7	20,1	5		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		55	4,4	8	11	0	CVPG	55	3,3	15%	46,7	63,3	11		
Other					8	0							0		
															3x 46/999, 3x 157/741, 1x 204/716, 1x 205/706
Sample B		33,6	20	61	24								16	16	100
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		17,7	0,22	1,3	5	0	CVPG	17,7	0,63	15%	15	20,4	5		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		52,7	4	7,6	11	0	CVPG	52,7	3	15%	44,7	60,7	11		
Other					8	0							0		
															3x 46/999, 3x 157/741, 1x 204/716, 1x 205/706
(165) PDW [fL]	[fL]				103								101	99	98
Sample A		14,9	0,96	6,5	103								101	100	99
(63) Sysmex; (749) Sysmex XE, XS, XT series		15,4	0,59	3,9	8	0	CVPG	14,9	0,23	15%	12,6	17,2	8		
(63) Sysmex; (755) Sysmex KX series		15,6	1,9	12	6	0	CVPG	14,9	0,23	15%	12,6	17,2	6		
(63) Sysmex; (772) Sysmex XN series		14,8	0,92	6,2	87	0	CVPG	14,9	0,23	15%	12,6	17,2	87		
Other					2	0							0		
															2x 204/716
Sample B		16,5	1,1	6,9	103								101	99	98
(63) Sysmex; (749) Sysmex XE, XS, XT series		16,3	0,89	5,5	8	0	CVPG	16,5	0,27	15%	14	19	8		
(63) Sysmex; (755) Sysmex KX series		17,8	0,96	5,4	6	0	CVPG	16,5	0,27	15%	14	19	6		
(63) Sysmex; (772) Sysmex XN series		16,4	1,1	6,6	87	0	CVPG	16,5	0,27	15%	14	19	87		
Other					2	0							0		
															2x 204/716
(166) PDW [-]	[-]				35								35	34	97
Sample A		16,4	0,23	1,4	35								35	34	97
(1) Abbott; (765) Abbott CELL-DYN Ruby		20,6	0,22	1,1	5	0	CVPG	19,9	1,7	15%	16,9	22,9	5		
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		16,2	0,15	0,92	5	0	CVPG	16,4	0,066	15%	13,9	18,9	5		
(177) Mindray; (771) MINDRAY BC 6xxx series		16,4	0,13	0,8	22	0	CVPG	16,4	0,066	15%	13,9	18,9	22		
Other					3	0							3		
															1x 1/763, 2x 177/999
Sample B		16,8	0,39	2,3	35								35	34	97
(1) Abbott; (765) Abbott CELL-DYN Ruby		22,2	1,6	7	5	0	CVPG	22,1	2,4	15%	18,7	25,5	5		
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		16,3	0,074	0,46	5	0	CVPG	16,7	0,099	15%	14,1	19,3	5		
(177) Mindray; (771) MINDRAY BC 6xxx series		16,8	0,13	0,79	22	0	CVPG	16,7	0,099	15%	14,1	19,3	22		
Other					3	0							3		
															1x 1/763, 2x 177/999
(160) Neutrophiles	[·10 ⁹ /L]				157								157	157	100
Sample A		2,7	0,12	4,3	157		CVP	2,7	0,023	25%	2,02	3,38	157	157	100
(737) Siemens Advia 120, 2120, 2120i		2,83	0,12	4,4	15	0							15		
(749) Sysmex XE, XS, XT series		2,66	0,045	1,7	5	0							5		

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Deadline: 19.5.2023

Setup: groups - measuring system; minimal size of the groups n = 5

Test Sample Group	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability					N _{eva}	N _{suc}	S _{rel} [%]		
							AV	U _{AV}	D _{max}	LL	UL					
(765) Abbott CELL-DYN Ruby		2,43	0,065	2,7	5	0								5		
(771) MINDRAY BC 6xxx series		2,82	0,084	3	26	0								26		
(772) Sysmex XN series		2,67	0,069	2,6	88	0								88		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,52	0,12	4,6	7	0								7		
(999) another system		2,71	0,28	10	5	0								5		
Other					6	0								6		
							1x 716, 1x 718, 3x 743, 1x 763									
Sample B		3,17	0,12	3,8	157		CVP	3,17	0,024	25%	2,37	3,97		157	157	100
(737) Siemens Advia 120, 2120, 2120i		3,14	0,17	5,5	15	0								15		
(749) Sysmex XE, XS, XT series		3,25	0,037	1,1	5	0								5		
(765) Abbott CELL-DYN Ruby		2,81	0,13	4,5	5	0								5		
(771) MINDRAY BC 6xxx series		3,24	0,11	3,3	26	0								26		
(772) Sysmex XN series		3,17	0,091	2,9	88	0								88		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,16	0,09	2,8	7	0								7		
(999) another system		3	0,089	3	5	0								5		
Other					6	0								6		
							1x 716, 1x 718, 3x 743, 1x 763									
(161) Lymphocytes	[·10⁹/L]				157									157	156	99
Sample A		2,09	0,091	4,3	157		CVP	2,09	0,018	25%	1,56	2,62		157	157	100
(737) Siemens Advia 120, 2120, 2120i		1,9	0,08	4,2	15	0								15		
(749) Sysmex XE, XS, XT series		2,09	0,14	6,8	6	0								6		
(765) Abbott CELL-DYN Ruby		2,24	0,019	0,86	5	0								5		
(771) MINDRAY BC 6xxx series		2,05	0,072	3,5	26	0								26		
(772) Sysmex XN series		2,12	0,063	3	87	0								87		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,05	0,076	3,7	7	0								7		
(999) another system		2,08	0,082	3,9	5	0								5		
Other					6	0								6		
							1x 716, 1x 718, 3x 743, 1x 763									
Sample B		1,72	0,077	4,5	157		CVP	1,72	0,015	25%	1,29	2,15		157	156	99
(737) Siemens Advia 120, 2120, 2120i		1,56	0,088	5,6	15	0								15		
(749) Sysmex XE, XS, XT series		1,69	0,059	3,5	6	0								6		
(765) Abbott CELL-DYN Ruby		1,82	0,069	3,8	5	0								5		
(771) MINDRAY BC 6xxx series		1,68	0,051	3	26	0								26		
(772) Sysmex XN series		1,75	0,053	3	87	0								87		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		1,67	0,046	2,8	7	0								7		
(999) another system		1,7	0,096	5,7	5	0								5		
Other					6	0								6		
							1x 716, 1x 718, 3x 743, 1x 763									
(162) Monocytes	[·10⁹/L]				156									156	156	100
Sample A		0,636	0,086	13	156		CVP	0,636	0,017	50%	0,318	0,954		156	156	100
(737) Siemens Advia 120, 2120, 2120i		0,481	0,056	12	15	0								15		
(749) Sysmex XE, XS, XT series		0,735	0,052	7,1	5	0								5		
(765) Abbott CELL-DYN Ruby		0,611	0,068	11	5	0								5		
(771) MINDRAY BC 6xxx series		0,543	0,038	7,1	26	0								26		
(772) Sysmex XN series		0,687	0,028	4,1	88	0								88		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,619	0,028	4,6	7	0								7		
Other					10	0								10		
							1x 716, 1x 718, 3x 743, 1x 763, 4x 999									
Sample B		0,325	0,044	14	156		CVP	0,325	0,009	50%	0,162	0,488		156	156	100
(737) Siemens Advia 120, 2120, 2120i		0,282	0,027	9,7	15	0								15		
(749) Sysmex XE, XS, XT series		0,38	0,015	3,9	5	0								5		
(765) Abbott CELL-DYN Ruby		0,28	0,062	22	5	0								5		
(771) MINDRAY BC 6xxx series		0,273	0,024	8,9	26	0								26		
(772) Sysmex XN series		0,346	0,027	7,7	88	0								88		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,302	0,002	0,73	7	0								7		
Other					10	0								10		
							1x 716, 1x 718, 3x 743, 1x 763, 4x 999									
(163) Eosinophils	[·10⁹/L]				156									156	149	96
Sample A		0,099	0,013	13	156		CVP	0,099	0,003	50%	0,049	0,149		156	150	96
(737) Siemens Advia 120, 2120, 2120i		0,109	0,014	13	15	0								15		
(749) Sysmex XE, XS, XT series		0,105	0,007	7	5	0								5		
(765) Abbott CELL-DYN Ruby		0,094	0,009	9,5	5	0								5		
(771) MINDRAY BC 6xxx series		0,099	0,011	11	26	0								26		
(772) Sysmex XN series		0,095	0,012	12	88	0								88		

EQA round: K03/23 - Blood Count

Deadline: 19.5.2023

Setup: groups - measuring system; minimal size of the groups n = 5

Test Sample Group	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability					N _{eva}	N _{suc}	S _{rel} [%]	
							AV	U _{AV}	D _{max}	LL	UL				
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,104	0,005	5	7	0							7		
Other					10	0							10		
							1x 716, 1x 718, 3x 743, 1x 763, 4x 999								
Sample B		0,136	0,017	13	156		CVP	0,136	0,003	50%	0,068	0,204	156	153	98
(737) Siemens Advia 120, 2120, 2120i		0,122	0,028	23	15	0							15		
(749) Sysmex XE, XS, XT series		0,15	0,015	9,9	5	0							5		
(765) Abbott CELL-DYN Ruby		0,135	0,025	18	5	0							5		
(771) MINDRAY BC 6xxx series		0,137	0,015	11	26	0							26		
(772) Sysmex XN series		0,136	0,014	9,9	88	0							88		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,12	0,029	24	7	0							7		
Other					10	0							10		
							1x 716, 1x 718, 3x 743, 1x 763, 4x 999								
(164) Basophiles	[·10 ⁹ /L]				156								156	156	100
Sample A		0,054	0,015	28	156		CVP	0,054	0,003	asym.	0	0,167	156	156	100
(737) Siemens Advia 120, 2120, 2120i		0,051	0,019	37	15	0							15		
(749) Sysmex XE, XS, XT series		0,06	0,03	50	5	0							5		
(765) Abbott CELL-DYN Ruby		0,096	0,013	13	5	0							5		
(771) MINDRAY BC 6xxx series		0,041	0,01	24	26	0							26		
(772) Sysmex XN series		0,057	0,008	15	88	0							88		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,03	0,045	150	7	0							7		
Other					10	0							10		
							1x 716, 1x 718, 3x 743, 1x 763, 4x 999								
Sample B		0,033	0,015	46	156		CVP	0,033	0,003	asym.	0	0,161	156	156	100
(737) Siemens Advia 120, 2120, 2120i		0,038	0,007	17	15	0							15		
(749) Sysmex XE, XS, XT series		0,025	0,022	89	5	0							5		
(765) Abbott CELL-DYN Ruby		0,053	0,013	25	5	0							5		
(771) MINDRAY BC 6xxx series		0,021	0,008	39	26	0							26		
(772) Sysmex XN series		0,035	0,015	43	88	0							88		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,03	0,045	150	7	0							7		
Other					10	0							10		
							1x 716, 1x 718, 3x 743, 1x 763, 4x 999								