

EQA round: K07/23 - Blood Count

Deadline: 6.10.2023

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]				200							200	200	100	
Sample A		4,32	0,14	3,3	200		CVP	4,32	0,025	15%	3,67	4,97	200	200	100
(737) Siemens Advia 120, 2120, 2120i		4,13	0,25	6,1	10	0							10		
(749) Sysmex XE, XS, XT series		4,46	0,31	7	8	0							8		
(755) Sysmex KX, XP, XQ series		4,28	0,15	3,5	10	0							10		
(766) MINDRAY BC 2xxx, 3xxx series		4,2	0,15	3,5	7	0							7		
(768) MINDRAY BC 5xxx series		4,37	0,24	5,4	8	0							8		
(771) MINDRAY BC 6xxx series		4,32	0,12	2,8	28	0							28		
(772) Sysmex XN series		4,36	0,1	2,3	100	0							100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,1	0,15	3,6	9	0							9		
(999) another system		4,42	0,25	5,7	6	0							6		
Other					14	0							14		
								1x 703, 2x 716, 1x 718, 2x 741, 1x 743, 4x 744, 1x 763, 2x 765							
Sample B		4,41	0,16	3,6	200		CVP	4,41	0,028	15%	3,74	5,08	200	200	100
(737) Siemens Advia 120, 2120, 2120i		4,16	0,27	6,6	10	0							10		
(749) Sysmex XE, XS, XT series		4,45	0,082	1,8	8	0							8		
(755) Sysmex KX, XP, XQ series		4,38	0,25	5,7	10	0							10		
(766) MINDRAY BC 2xxx, 3xxx series		4,3	0,15	3,4	7	0							7		
(768) MINDRAY BC 5xxx series		4,49	0,4	8,9	8	0							8		
(771) MINDRAY BC 6xxx series		4,42	0,16	3,6	28	0							28		
(772) Sysmex XN series		4,46	0,11	2,6	100	0							100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,3	0,15	3,4	9	0							9		
(999) another system		4,37	0,089	2	6	0							6		
Other					14	0							14		
								1x 703, 2x 716, 1x 718, 2x 741, 1x 743, 4x 744, 1x 763, 2x 765							
(151) RBC	[·10 ¹² /L]				200							200	196	98	
Sample A		3,96	0,06	1,5	200		CVP	3,96	0,01	7%	3,68	4,24	200	197	99
(737) Siemens Advia 120, 2120, 2120i		4,03	0,074	1,8	10	0							10		
(749) Sysmex XE, XS, XT series		4,01	0,089	2,2	8	0							8		
(755) Sysmex KX, XP, XQ series		4	0,09	2,2	10	0							10		
(766) MINDRAY BC 2xxx, 3xxx series		3,87	0,1	2,7	7	0							7		
(768) MINDRAY BC 5xxx series		3,94	0,067	1,7	8	0							8		
(771) MINDRAY BC 6xxx series		3,98	0,071	1,8	28	0							28		
(772) Sysmex XN series		3,95	0,046	1,2	100	0							100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,97	0,045	1,1	9	0							9		
(999) another system		4,09	0,27	6,7	6	0							6		
Other					14	0							14		
								1x 703, 2x 716, 1x 718, 2x 741, 1x 743, 4x 744, 1x 763, 2x 765							
Sample B		3,48	0,057	1,6	200		CVP	3,48	0,01	7%	3,23	3,73	200	199	100
(737) Siemens Advia 120, 2120, 2120i		3,59	0,038	1,1	10	0							10		
(749) Sysmex XE, XS, XT series		3,5	0,067	1,9	8	0							8		
(755) Sysmex KX, XP, XQ series		3,5	0,066	1,9	10	0							10		
(766) MINDRAY BC 2xxx, 3xxx series		3,44	0,074	2,2	7	0							7		
(768) MINDRAY BC 5xxx series		3,43	0,13	3,7	8	0							8		
(771) MINDRAY BC 6xxx series		3,52	0,068	1,9	28	0							28		
(772) Sysmex XN series		3,46	0,043	1,2	100	0							100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,46	0,022	0,64	9	0							9		
(999) another system		3,45	0,059	1,7	6	0							6		
Other					14	0							14		
								1x 703, 2x 716, 1x 718, 2x 741, 1x 743, 4x 744, 1x 763, 2x 765							
(152) Haemoglobin	[g/L]				200							200	198	99	
Sample A		106	1,7	1,6	200		CVP	106	0,29	6%	99,6	113	200	198	99
(737) Siemens Advia 120, 2120, 2120i		110	2	1,8	10	0							10		
(749) Sysmex XE, XS, XT series		106	1,5	1,4	8	0							8		
(755) Sysmex KX, XP, XQ series		106	2	1,9	10	0							10		
(766) MINDRAY BC 2xxx, 3xxx series		106	1,5	1,4	7	0							7		
(768) MINDRAY BC 5xxx series		107	2,2	2,1	8	0							8		
(771) MINDRAY BC 6xxx series		107	1,7	1,5	28	0							28		
(772) Sysmex XN series		106	1,3	1,2	100	0							100		

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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		106	1,5	1,4	9	0								9		
(999) another system		107	1,5	1,4	6	0								6		
Other					14	0								14		
							1x 703, 2x 716, 1x 718, 2x 741, 1x 743, 4x 744, 1x 763, 2x 765									
Sample B		104	1,7	1,7	200		CVP	104	0,3	6%	97,7	111		200	200	100
(737) Siemens Advia 120, 2120, 2120i		107	1,5	1,4	10	0								10		
(749) Sysmex XE, XS, XT series		105	2,2	2,1	8	0								8		
(755) Sysmex KX, XP, XQ series		104	1,9	1,8	10	0								10		
(766) MINDRAY BC 2xxx, 3xxx series		105	2,2	2,1	7	0								7		
(768) MINDRAY BC 5xxx series		104	3	2,9	8	0								8		
(771) MINDRAY BC 6xxx series		105	1,9	1,8	28	0								28		
(772) Sysmex XN series		103	1,2	1,2	100	0								100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		104	1,5	1,4	9	0								9		
(999) another system		103	2,4	2,3	6	0								6		
Other					14	0								14		
							1x 703, 2x 716, 1x 718, 2x 741, 1x 743, 4x 744, 1x 763, 2x 765									
(153) HCT	[-]				199									199	195	98
Sample A		0,347	0,01	2,8	199		CVP	0,347	0,002	10%	0,312	0,382		199	195	98
(737) Siemens Advia 120, 2120, 2120i		0,357	0,008	2,2	10	0								10		
(749) Sysmex XE, XS, XT series		0,352	0,018	5,1	8	0								8		
(755) Sysmex KX, XP, XQ series		0,351	0,005	1,3	10	0								10		
(766) MINDRAY BC 2xxx, 3xxx series		0,334	0,013	4	7	0								7		
(768) MINDRAY BC 5xxx series		0,333	0,01	3,1	8	2								8		
(771) MINDRAY BC 6xxx series		0,341	0,01	2,8	28	0								28		
(772) Sysmex XN series		0,35	0,006	1,6	99	0								99		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,338	0,004	1,1	9	0								9		
(999) another system		0,344	0,01	2,8	6	0								6		
Other					14	1								14		
							1x 703, 2x 716, 1x 718, 2x 741, 1x 743, 4x 744, 1x 763, 2x 765									
Sample B		0,332	0,009	2,7	199		CVP	0,332	0,002	10%	0,298	0,366		199	196	98
(737) Siemens Advia 120, 2120, 2120i		0,344	0,007	2	10	0								10		
(749) Sysmex XE, XS, XT series		0,337	0,01	3,1	8	0								8		
(755) Sysmex KX, XP, XQ series		0,332	0,003	0,99	10	0								10		
(766) MINDRAY BC 2xxx, 3xxx series		0,32	0,012	3,7	7	0								7		
(768) MINDRAY BC 5xxx series		0,322	0,012	3,7	8	2								8		
(771) MINDRAY BC 6xxx series		0,329	0,01	3	28	0								28		
(772) Sysmex XN series		0,334	0,006	1,7	99	0								99		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,321	0,002	0,47	9	0								9		
(999) another system		0,32	0,004	1,4	6	0								6		
Other					14	1								14		
							1x 703, 2x 716, 1x 718, 2x 741, 1x 743, 4x 744, 1x 763, 2x 765									
(154) MCV	[fL]				200									200	199	100
Sample A		87,4	2,2	2,5	200		CVP	87,4	0,38	10%	78,6	96,2		200	199	100
(737) Siemens Advia 120, 2120, 2120i		88,4	1,5	1,7	10	0								10		
(749) Sysmex XE, XS, XT series		87,9	1,6	1,9	8	0								8		
(755) Sysmex KX, XP, XQ series		87,4	1,4	1,6	10	0								10		
(766) MINDRAY BC 2xxx, 3xxx series		84,1	2,2	2,6	7	0								7		
(768) MINDRAY BC 5xxx series		85,1	1,6	1,9	8	0								8		
(771) MINDRAY BC 6xxx series		85,8	1,7	2	28	0								28		
(772) Sysmex XN series		88,8	0,98	1,1	100	0								100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		84,9	0,89	1	9	0								9		
(999) another system		84,5	2,4	2,9	6	0								6		
Other					14	0								14		
							1x 703, 2x 716, 1x 718, 2x 741, 1x 743, 4x 744, 1x 763, 2x 765									
Sample B		95,1	2,4	2,5	200		CVP	95,1	0,42	10%	85,5	105		200	200	100
(737) Siemens Advia 120, 2120, 2120i		96	1,6	1,6	10	0								10		
(749) Sysmex XE, XS, XT series		96,2	1,6	1,6	8	0								8		
(755) Sysmex KX, XP, XQ series		94,8	1,1	1,2	10	0								10		
(766) MINDRAY BC 2xxx, 3xxx series		91,4	2,7	2,9	7	0								7		
(768) MINDRAY BC 5xxx series		93,4	3,4	3,7	8	0								8		
(771) MINDRAY BC 6xxx series		93,5	1,7	1,8	28	0								28		
(772) Sysmex XN series		96,5	1,2	1,3	100	0								100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		92,7	1	1,1	9	0								9		
(999) another system		92,1	2,4	2,6	6	0								6		

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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					14	0							14		
							1x 703, 2x 716, 1x 718, 2x 741, 1x 743, 4x 744, 1x 763, 2x 765								
(155) Platelets	[·10⁹/L]				200								200	194	97
Sample A		148	7,6	5,1	200		CVP	148	1,3	18%	121	175	200	196	98
(737) Siemens Advia 120, 2120, 2120i		133	6,2	4,7	10	0							10		
(749) Sysmex XE, XS, XT series		151	10	6,9	8	0							8		
(755) Sysmex KX, XP, XQ series		144	5,2	3,6	10	0							10		
(766) MINDRAY BC 2xxx, 3xxx series		150	13	8,4	8	0							8		
(768) MINDRAY BC 5xxx series		148	9,6	6,5	7	0							7		
(771) MINDRAY BC 6xxx series		150	8,6	5,8	28	0							28		
(772) Sysmex XN series		149	5,6	3,8	100	0							100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		144	5,2	3,6	9	0							9		
(999) another system		168	25	15	6	0							6		
Other					14	0							14		
							1x 703, 2x 716, 1x 718, 2x 741, 1x 743, 4x 744, 1x 763, 2x 765								
Sample B		233	10	4,4	200		CVP	233	1,8	18%	191	275	200	196	98
(737) Siemens Advia 120, 2120, 2120i		214	15	6,8	10	0							10		
(749) Sysmex XE, XS, XT series		237	14	5,8	8	0							8		
(755) Sysmex KX, XP, XQ series		232	6,1	2,6	10	0							10		
(766) MINDRAY BC 2xxx, 3xxx series		233	23	9,9	8	0							8		
(768) MINDRAY BC 5xxx series		233	13	5,4	7	0							7		
(771) MINDRAY BC 6xxx series		238	11	4,8	28	0							28		
(772) Sysmex XN series		231	7,1	3,1	100	0							100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		227	0,74	0,33	9	0							9		
(999) another system		255	16	6,1	6	0							6		
Other					14	0							14		
							1x 703, 2x 716, 1x 718, 2x 741, 1x 743, 4x 744, 1x 763, 2x 765								
(156) RDW	[%]				179								172	170	99
Sample A		16,6	0,38	2,3	179								172	170	99
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		17,8	0,15	0,83	9	0	CVPG	17,8	0,19	10%	16	19,6	9		
(63) Sysmex; (749) Sysmex XE, XS, XT series		16,8	0,37	2,2	7	0	CVPG	16,5	0,048	10%	14,8	18,2	7		
(63) Sysmex; (755) Sysmex KX, XP, XQ series		16,1	0,22	1,4	6	1	CVPG	16,5	0,048	10%	14,8	18,2	6		
(63) Sysmex; (772) Sysmex XN series		16,5	0,18	1,1	94	0	CVPG	16,5	0,048	10%	14,8	18,2	94		
(177) Mindray; (768) MINDRAY BC 5xxx series		16,8	0,3	1,8	7	0	CVPG	16,9	0,12	10%	15,2	18,6	7		
(177) Mindray; (771) MINDRAY BC 6xxx series		16,9	0,28	1,7	25	0	CVPG	16,9	0,12	10%	15,2	18,6	25		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		16,1	0,42	2,6	10	0	CVPG	16,2	0,35	10%	14,5	17,9	10		
Other					21	0							14		
							1x 1/763, 2x 1/765, 1x 12/718, 3x 46/999, 1x 157/741, 4x 157/744, 4x 177/766, 3x 177/999, 1x 179/703, 1x 204/716								
Sample B		16,8	0,49	2,9	179								172	170	99
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		18	0,22	1,2	9	0	CVPG	17,9	0,21	10%	16,1	19,7	9		
(63) Sysmex; (749) Sysmex XE, XS, XT series		16,9	0,44	2,6	7	0	CVPG	16,7	0,062	10%	15	18,4	7		
(63) Sysmex; (755) Sysmex KX, XP, XQ series		16,1	0,22	1,4	6	1	CVPG	16,7	0,062	10%	15	18,4	6		
(63) Sysmex; (772) Sysmex XN series		16,7	0,22	1,3	94	0	CVPG	16,7	0,062	10%	15	18,4	94		
(177) Mindray; (768) MINDRAY BC 5xxx series		17,2	0,96	5,6	7	0	CVPG	17,2	0,14	10%	15,4	19	7		
(177) Mindray; (771) MINDRAY BC 6xxx series		17,2	0,29	1,7	25	0	CVPG	17,2	0,14	10%	15,4	19	25		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		15,9	0,44	2,8	10	0	CVPG	16	0,38	10%	14,4	17,6	10		
Other					21	0							14		
							1x 1/763, 2x 1/765, 1x 12/718, 3x 46/999, 1x 157/741, 4x 157/744, 4x 177/766, 3x 177/999, 1x 179/703, 1x 204/716								
(157) MPV	[fL]				181								175	171	98
Sample A		10,3	0,58	5,6	181								175	171	98
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		8,85	0,22	2,5	9	0	CVPG	8,82	0,21	18%	7,23	10,5	9		
(63) Sysmex; (749) Sysmex XE, XS, XT series		10,6	0,37	3,5	8	0	CVPG	10,5	0,095	18%	8,61	12,4	8		
(63) Sysmex; (755) Sysmex KX, XP, XQ series		10,4	0,37	3,6	7	0	CVPG	10,5	0,095	18%	8,61	12,4	7		
(63) Sysmex; (772) Sysmex XN series		10,5	0,43	4,1	94	0	CVPG	10,5	0,095	18%	8,61	12,4	94		
(177) Mindray; (768) MINDRAY BC 5xxx series		9,3	1,3	14	8	0	CVPG	10,2	0,23	18%	8,36	12,1	8		
(177) Mindray; (771) MINDRAY BC 6xxx series		10,5	0,48	4,6	26	0	CVPG	10,2	0,23	18%	8,36	12,1	26		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		10,4	0,44	4,3	9	0	CVPG	10,2	0,54	18%	8,36	12,1	9		
Other					20	0							14		
							1x 1/763, 1x 1/765, 1x 12/718, 3x 46/999, 1x 157/741, 4x 157/744, 4x 177/766, 3x 177/999, 1x 179/703, 1x 204/716								

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							AV	U _{AV}	D _{max}	LL	UL			
Sample B		10,1	0,54	5,4	181							175	172	98
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		8,7	0,3	3,4	9	0	CVPG	8,73	0,26	18%	7,15	10,4		9
(63) Sysmex; (749) Sysmex XE, XS, XT series		10,2	0,3	2,9	8	0	CVPG	10,2	0,087	18%	8,36	12,1		8
(63) Sysmex; (755) Sysmex KX, XP, XQ series		10,3	0,52	5,1	7	0	CVPG	10,2	0,087	18%	8,36	12,1		7
(63) Sysmex; (772) Sysmex XN series		10,3	0,37	3,6	94	0	CVPG	10,2	0,087	18%	8,36	12,1		94
(177) Mindray; (768) MINDRAY BC 5xxx series		9,55	1,6	16	8	0	CVPG	10,1	0,24	18%	8,28	12		8
(177) Mindray; (771) MINDRAY BC 6xxx series		10,3	0,43	4,1	26	0	CVPG	10,1	0,24	18%	8,28	12		26
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		10,4	0,22	2,1	9	0	CVPG	10,3	0,47	18%	8,44	12,2		9
Other					20	0								14
														1x 1/763, 1x 1/765, 1x 12/718, 3x 46/999, 1x 157/741, 4x 157/744, 4x 177/766, 3x 177/999, 1x 179/703, 1x 204/716
(158) PDW [%]	[%]				18							14	14	100
Sample A		29,1	15	52	18							14	14	100
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		43	4,7	11	8	0	CVPG	41,9	3,8	15%	35,6	48,2		8
Other					10	0								6
														3x 46/999, 1x 157/741, 4x 157/744, 1x 176/771, 1x 179/703
Sample B		28,7	15	52	18							14	14	100
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		42,1	4,7	11	8	0	CVPG	41,6	4,9	15%	35,3	47,9		8
Other					10	0								6
														3x 46/999, 1x 157/741, 4x 157/744, 1x 176/771, 1x 179/703
(165) PDW [fL]	[fL]				105							104	101	97
Sample A		11,7	0,81	6,9	105							104	102	98
(63) Sysmex; (749) Sysmex XE, XS, XT series		11,9	0,89	7,5	8	0	CVPG	11,7	0,19	15%	9,94	13,5		8
(63) Sysmex; (755) Sysmex KX, XP, XQ series		13,4	1,4	11	7	0	CVPG	11,7	0,19	15%	9,94	13,5		7
(63) Sysmex; (772) Sysmex XN series		11,6	0,73	6,2	89	0	CVPG	11,7	0,19	15%	9,94	13,5		89
Other					1	0								0
														1x 204/716
Sample B		11,5	0,78	6,8	105							104	102	98
(63) Sysmex; (749) Sysmex XE, XS, XT series		11,4	1,2	10	8	0	CVPG	11,5	0,18	15%	9,77	13,3		8
(63) Sysmex; (755) Sysmex KX, XP, XQ series		12,9	0,37	2,9	7	0	CVPG	11,5	0,18	15%	9,77	13,3		7
(63) Sysmex; (772) Sysmex XN series		11,4	0,7	6,1	89	0	CVPG	11,5	0,18	15%	9,77	13,3		89
Other					1	0								0
														1x 204/716
(166) PDW [-]	[-]				39							39	38	97
Sample A		15,8	0,27	1,7	39							39	38	97
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		15,5	0	0	5	0	CVPG	15,8	0,1	15%	13,4	18,2		5
(177) Mindray; (768) MINDRAY BC 5xxx series		15,9	0,37	2,3	7	0	CVPG	15,8	0,1	15%	13,4	18,2		7
(177) Mindray; (771) MINDRAY BC 6xxx series		15,9	0,2	1,3	24	0	CVPG	15,8	0,1	15%	13,4	18,2		24
Other					3	0								3
														3x 177/999
Sample B		15,7	0,26	1,7	39							39	38	97
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		15,1	0,3	2	5	0	CVPG	15,7	0,1	15%	13,3	18,1		5
(177) Mindray; (768) MINDRAY BC 5xxx series		15,7	0,3	1,9	7	0	CVPG	15,7	0,1	15%	13,3	18,1		7
(177) Mindray; (771) MINDRAY BC 6xxx series		15,8	0,18	1,1	24	0	CVPG	15,7	0,1	15%	13,3	18,1		24
Other					3	0								3
														3x 177/999
(160) Neutrophiles	[·10 ⁹ /L]				166							166	165	99
Sample A		2,45	0,1	4,1	166		CVP	2,45	0,019	25%	1,83	3,07		166
(737) Siemens Advia 120, 2120, 2120i		2,34	0,16	6,7	9	0								9
(749) Sysmex XE, XS, XT series		2,47	0,089	3,6	7	0								7
(768) MINDRAY BC 5xxx series		2,44	0,21	8,5	7	0								7
(771) MINDRAY BC 6xxx series		2,54	0,089	3,5	28	0								28
(772) Sysmex XN series		2,44	0,077	3,2	94	0								94
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,41	0,16	6,8	8	0								8
(999) another system		2,52	0,089	3,5	5	0								5
Other					8	0								8
														1x 703, 1x 718, 3x 744, 1x 755, 1x 763, 1x 765
Sample B		2,48	0,11	4,6	166		CVP	2,48	0,022	25%	1,86	3,1		166
(737) Siemens Advia 120, 2120, 2120i		2,41	0,11	4,6	9	0								9
(749) Sysmex XE, XS, XT series		2,47	0,045	1,8	7	0								7
(768) MINDRAY BC 5xxx series		2,43	0,24	9,8	7	0								7
(771) MINDRAY BC 6xxx series		2,59	0,085	3,3	28	0								28
(772) Sysmex XN series		2,47	0,09	3,6	94	0								94

EQA round: K07/23 - Blood Count

Deadline: 6.10.2023

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		2,46	0,082	3,3	8	0						8			
(999) another system		2,22	0,4	18	5	0						5			
Other					8	0						8			
1x 703, 1x 718, 3x 744, 1x 755, 1x 763, 1x 765															
(161) Lymphocytes	[·10⁹/L]				167							167	164	98	
Sample A		1,44	0,07	4,8	167		CVP	1,44	0,013	25%	1,08	1,8	167	166	99
(737) Siemens Advia 120, 2120, 2120i		1,35	0,074	5,5	9	0							9		
(749) Sysmex XE, XS, XT series		1,46	0,082	5,6	7	0							7		
(768) MINDRAY BC 5xxx series		1,56	0,096	6,2	7	0							7		
(771) MINDRAY BC 6xxx series		1,41	0,063	4,4	28	0							28		
(772) Sysmex XN series		1,45	0,047	3,2	94	0							94		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		1,26	0,12	9,8	8	0							8		
(999) another system		1,49	0,15	10	5	0							5		
Other					9	0							9		
1x 703, 1x 718, 3x 744, 2x 755, 1x 763, 1x 765															
Sample B		1,39	0,068	4,9	167		CVP	1,39	0,013	25%	1,04	1,74	167	165	99
(737) Siemens Advia 120, 2120, 2120i		1,25	0,096	7,7	9	0							9		
(749) Sysmex XE, XS, XT series		1,41	0,037	2,6	7	0							7		
(768) MINDRAY BC 5xxx series		1,53	0,23	15	7	0							7		
(771) MINDRAY BC 6xxx series		1,38	0,066	4,8	28	0							28		
(772) Sysmex XN series		1,39	0,051	3,6	94	0							94		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		1,25	0,074	5,9	8	0							8		
(999) another system		1,51	0,13	8,8	5	0							5		
Other					9	0							9		
1x 703, 1x 718, 3x 744, 2x 755, 1x 763, 1x 765															
(162) Monocytes	[·10⁹/L]				164							164	162	99	
Sample A		0,347	0,051	15	164		CVP	0,347	0,01	50%	0,173	0,521	164	163	99
(737) Siemens Advia 120, 2120, 2120i		0,315	0,022	7	9	0							9		
(749) Sysmex XE, XS, XT series		0,36	0,089	25	7	0							7		
(768) MINDRAY BC 5xxx series		0,275	0,096	35	7	0							7		
(771) MINDRAY BC 6xxx series		0,284	0,022	7,7	28	0							28		
(772) Sysmex XN series		0,375	0,024	6,4	94	0							94		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,317	0,025	7,7	8	0							8		
Other					11	0							11		
1x 703, 1x 718, 3x 744, 1x 763, 1x 765, 4x 999															
Sample B		0,479	0,082	17	164		CVP	0,479	0,016	50%	0,239	0,719	164	163	99
(737) Siemens Advia 120, 2120, 2120i		0,34	0,03	8,7	9	0							9		
(749) Sysmex XE, XS, XT series		0,54	0,074	14	7	0							7		
(768) MINDRAY BC 5xxx series		0,41	0,03	7,2	7	0							7		
(771) MINDRAY BC 6xxx series		0,385	0,024	6,3	28	0							28		
(772) Sysmex XN series		0,52	0,035	6,7	94	0							94		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,436	0,053	12	8	0							8		
Other					11	0							11		
1x 703, 1x 718, 3x 744, 1x 763, 1x 765, 4x 999															
(163) Eosinophils	[·10⁹/L]				164							164	162	99	
Sample A		0,053	0,011	21	164		CVP	0,053	0,002	asym.	0	0,13	164	164	100
(737) Siemens Advia 120, 2120, 2120i		0,05	0	0	9	0							9		
(749) Sysmex XE, XS, XT series		0,055	0,007	13	7	0							7		
(768) MINDRAY BC 5xxx series		0,065	0,022	34	7	0							7		
(771) MINDRAY BC 6xxx series		0,055	0,009	17	28	0							28		
(772) Sysmex XN series		0,05	0,009	19	94	0							94		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,075	0,037	49	8	0							8		
Other					11	0							11		
1x 703, 1x 718, 3x 744, 1x 763, 1x 765, 4x 999															
Sample B		0,04	0,002	4,2	164		CVP	0,04	0	asym.	0	0,133	164	162	99
(737) Siemens Advia 120, 2120, 2120i		0,06	0,015	25	9	0							9		
(749) Sysmex XE, XS, XT series		0,04	0	0	7	0							7		
(768) MINDRAY BC 5xxx series		0,06	0,015	25	7	0							7		
(771) MINDRAY BC 6xxx series		0,04	0,006	16	28	0							28		
(772) Sysmex XN series		0,04	0,007	17	94	0							94		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,025	0,037	150	8	0							8		
Other					11	0							11		
1x 703, 1x 718, 3x 744, 1x 763, 1x 765, 4x 999															

EQA round: K07/23 - Blood Count

Deadline: 6.10.2023

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				
(164) Basophiles	[·10 ⁹ /L]				164							164	164	100	
Sample A		0,05	0,017	34	164		CVP	0,05	0,003	asym.	0	0,13	164	164	100
(737) Siemens Advia 120, 2120, 2120i		0,025	0,007	30	9	0							9		
(749) Sysmex XE, XS, XT series		0,055	0,037	67	7	0							7		
(768) MINDRAY BC 5xxx series		0,015	0,007	49	7	0							7		
(771) MINDRAY BC 6xxx series		0,048	0,015	31	28	0							28		
(772) Sysmex XN series		0,055	0,012	22	94	0							94		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,05	0,074	150	8	0							8		
Other					11	0							11		
							1x 703, 1x 718, 3x 744, 1x 763, 1x 765, 4x 999								
Sample B		0,026	0,015	55	164		CVP	0,026	0,003	asym.	0	0,133	164	164	100
(737) Siemens Advia 120, 2120, 2120i		0,015	0,007	49	9	0							9		
(749) Sysmex XE, XS, XT series		0,045	0,052	120	7	0							7		
(768) MINDRAY BC 5xxx series		0,01	0,015	150	7	0							7		
(771) MINDRAY BC 6xxx series		0,022	0,013	59	28	0							28		
(772) Sysmex XN series		0,03	0,013	43	94	0							94		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,005	0,007	150	8	0							8		
Other					11	0							11		
							1x 703, 1x 718, 3x 744, 1x 763, 1x 765, 4x 999								