

EQA round: KO6/24 - Blood Count

Deadline: 20.9.2024

Setup: groups - S (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]				196							181	177	98	
Sample A		5,36	0,25	4,7	196							181	178	98	
(702) Abbott CELL-DYN Emerald		5,12	0,29	5,6	13	0	CVP	5,4	0,038	15%	4,59	6,21	13		
(737) Siemens Advia 120, 2120, 2120i		5,27	0,2	3,8	6	0	CVP	5,4	0,038	15%	4,59	6,21	6		
(755) Sysmex KX, XP, XQ series		5,3	0,15	2,8	6	0	CVP	5,4	0,038	15%	4,59	6,21	6		
(765) Abbott CELL-DYN Ruby		4,56	0,25	5,4	15	0	CVPG	4,56	0,16	15%	3,87	5,25	0		
(768) MINDRAY BC 5xxx series		4,92	0,59	12	8	0	CVP	5,4	0,038	15%	4,59	6,21	8		
(771) MINDRAY BC 6xxx, 7xx series		5,36	0,3	5,6	16	0	CVP	5,4	0,038	15%	4,59	6,21	16		
(772) Sysmex XN, XR series		5,48	0,12	2,3	95	0	CVP	5,4	0,038	15%	4,59	6,21	95		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		5,27	0,18	3,4	15	0	CVP	5,4	0,038	15%	4,59	6,21	15		
(999) another system		5,5	0,3	5,4	6	0	CVP	5,4	0,038	15%	4,59	6,21	6		
Other					16	0							16		
								1x 716, 2x 718, 2x 741, 2x 743, 4x 749, 4x 763, 1x 766							
Sample B		5,13	0,22	4,3	196							181	178	98	
(702) Abbott CELL-DYN Emerald		4,89	0,25	5,1	13	0	CVP	5,15	0,035	15%	4,37	5,93	13		
(737) Siemens Advia 120, 2120, 2120i		4,95	0,14	2,8	6	0	CVP	5,15	0,035	15%	4,37	5,93	6		
(755) Sysmex KX, XP, XQ series		5,05	0,074	1,5	6	0	CVP	5,15	0,035	15%	4,37	5,93	6		
(765) Abbott CELL-DYN Ruby		4,81	0,16	3,3	15	0	CVPG	4,81	0,1	15%	4,08	5,54	0		
(768) MINDRAY BC 5xxx series		4,78	0,37	7,8	8	0	CVP	5,15	0,035	15%	4,37	5,93	8		
(771) MINDRAY BC 6xxx, 7xx series		5,14	0,26	5,1	16	0	CVP	5,15	0,035	15%	4,37	5,93	16		
(772) Sysmex XN, XR series		5,25	0,11	2,2	95	0	CVP	5,15	0,035	15%	4,37	5,93	95		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		5	0,17	3,5	15	0	CVP	5,15	0,035	15%	4,37	5,93	15		
(999) another system		5,19	0,27	5,3	6	0	CVP	5,15	0,035	15%	4,37	5,93	6		
Other					16	0							16		
								1x 716, 2x 718, 2x 741, 2x 743, 4x 749, 4x 763, 1x 766							
(151) RBC	[·10 ¹² /L]				196							196	192	98	
Sample A		3,82	0,074	1,9	196		CVP	3,82	0,013	7%	3,55	4,09	196	192	98
(702) Abbott CELL-DYN Emerald		3,73	0,1	2,8	13	1							13		
(737) Siemens Advia 120, 2120, 2120i		3,93	0,082	2,1	6	0							6		
(755) Sysmex KX, XP, XQ series		3,82	0,03	0,78	6	0							6		
(765) Abbott CELL-DYN Ruby		3,81	0,11	3	15	0							15		
(768) MINDRAY BC 5xxx series		3,67	0,27	7,5	8	0							8		
(771) MINDRAY BC 6xxx, 7xx series		3,84	0,1	2,6	16	0							16		
(772) Sysmex XN, XR series		3,82	0,056	1,5	95	0							95		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,82	0,05	1,3	15	0							15		
(999) another system		3,87	0,11	2,9	6	0							6		
Other					16	0							16		
								1x 716, 2x 718, 2x 741, 2x 743, 4x 749, 4x 763, 1x 766							
Sample B		3,73	0,068	1,8	196		CVP	3,73	0,012	7%	3,46	4	196	195	99
(702) Abbott CELL-DYN Emerald		3,68	0,07	1,9	13	0							13		
(737) Siemens Advia 120, 2120, 2120i		3,81	0,096	2,5	6	0							6		
(755) Sysmex KX, XP, XQ series		3,78	0,045	1,2	6	0							6		
(765) Abbott CELL-DYN Ruby		3,74	0,08	2,1	15	0							15		
(768) MINDRAY BC 5xxx series		3,71	0,11	3	8	0							8		
(771) MINDRAY BC 6xxx, 7xx series		3,75	0,1	2,7	16	0							16		
(772) Sysmex XN, XR series		3,73	0,055	1,5	95	0							95		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,75	0,038	1	15	0							15		
(999) another system		3,75	0,074	2	6	0							6		
Other					16	0							16		
								1x 716, 2x 718, 2x 741, 2x 743, 4x 749, 4x 763, 1x 766							
(152) Haemoglobin	[g/L]				202							202	196	97	
Sample A		122	2	1,7	202		CVP	122	0,35	6%	114	130	202	199	99
(702) Abbott CELL-DYN Emerald		125	2,3	1,8	13	0							13		
(737) Siemens Advia 120, 2120, 2120i		126	0,74	0,59	6	0							6		
(755) Sysmex KX, XP, XQ series		122	0	0	6	0							6		
(765) Abbott CELL-DYN Ruby		124	3,2	2,6	15	0							15		
(768) MINDRAY BC 5xxx series		122	2,2	1,8	8	0							8		
(771) MINDRAY BC 6xxx, 7xx series		122	1,5	1,2	16	0							16		
(772) Sysmex XN, XR series		121	1,4	1,2	95	0							95		

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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		121	1,4	1,1	15	0							15		
(999) another system		124	4,3	3,5	12	0							12		
Other					16	0							16		
							1x 716, 2x 718, 2x 741, 2x 743, 4x 749, 4x 763, 1x 766								
Sample B		109	1,9	1,7	202		CVP	109	0,32	6%	102	116	202	198	98
(702) Abbott CELL-DYN Emerald		111	2,2	2	13	0							13		
(737) Siemens Advia 120, 2120, 2120i		113	0,74	0,66	6	0							6		
(755) Sysmex KX, XP, XQ series		110	0,74	0,68	6	0							6		
(765) Abbott CELL-DYN Ruby		110	2	1,9	15	0							15		
(768) MINDRAY BC 5xxx series		109	3	2,7	8	0							8		
(771) MINDRAY BC 6xxx, 7xx series		110	1,2	1,1	16	0							16		
(772) Sysmex XN, XR series		109	1,5	1,4	95	0							95		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		109	1,2	1,1	15	0							15		
(999) another system		111	3,2	2,9	12	0							12		
Other					16	0							16		
							1x 716, 2x 718, 2x 741, 2x 743, 4x 749, 4x 763, 1x 766								
(153) HCT	[-]				196								196	194	99
Sample A		0,383	0,012	3	196		CVP	0,383	0,002	10%	0,344	0,422	196	194	99
(702) Abbott CELL-DYN Emerald		0,373	0,013	3,5	13	0							13		
(737) Siemens Advia 120, 2120, 2120i		0,402	0,003	0,75	6	0							6		
(755) Sysmex KX, XP, XQ series		0,384	0,005	1,4	6	0							6		
(765) Abbott CELL-DYN Ruby		0,381	0,017	4,6	15	0							15		
(768) MINDRAY BC 5xxx series		0,36	0,004	1,2	8	0							8		
(771) MINDRAY BC 6xxx, 7xx series		0,369	0,016	4,2	16	0							16		
(772) Sysmex XN, XR series		0,388	0,007	1,8	95	0							95		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,375	0,006	1,5	15	0							15		
(999) another system		0,38	0,016	4,1	6	0							6		
Other					16	0							16		
							1x 716, 2x 718, 2x 741, 2x 743, 4x 749, 4x 763, 1x 766								
Sample B		0,349	0,012	3,3	196		CVP	0,349	0,002	10%	0,314	0,384	196	195	99
(702) Abbott CELL-DYN Emerald		0,339	0,008	2,3	13	0							13		
(737) Siemens Advia 120, 2120, 2120i		0,361	0,004	1,2	6	0							6		
(755) Sysmex KX, XP, XQ series		0,355	0,004	1,2	6	0							6		
(765) Abbott CELL-DYN Ruby		0,348	0,009	2,5	15	0							15		
(768) MINDRAY BC 5xxx series		0,326	0,013	3,9	8	0							8		
(771) MINDRAY BC 6xxx, 7xx series		0,338	0,014	4,3	16	0							16		
(772) Sysmex XN, XR series		0,355	0,007	1,9	95	0							95		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,341	0,003	0,97	15	0							15		
(999) another system		0,341	0,002	0,44	6	0							6		
Other					16	0							16		
							1x 716, 2x 718, 2x 741, 2x 743, 4x 749, 4x 763, 1x 766								
(154) MCV	[fL]				196								196	196	100
Sample A		100	2,6	2,6	196		CVP	100	0,45	10%	90	110	196	196	100
(702) Abbott CELL-DYN Emerald		99,7	2,6	2,7	13	0							13		
(737) Siemens Advia 120, 2120, 2120i		102	1,3	1,2	6	0							6		
(755) Sysmex KX, XP, XQ series		100	0,59	0,59	6	0							6		
(765) Abbott CELL-DYN Ruby		100	2,7	2,7	15	0							15		
(768) MINDRAY BC 5xxx series		96,8	3,7	3,8	8	0							8		
(771) MINDRAY BC 6xxx, 7xx series		96,1	2,5	2,6	16	0							16		
(772) Sysmex XN, XR series		101	1,2	1,2	95	0							95		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		98,1	1,3	1,3	15	0							15		
(999) another system		97,7	0,44	0,46	6	0							6		
Other					16	0							16		
							1x 716, 2x 718, 2x 741, 2x 743, 4x 749, 4x 763, 1x 766								
Sample B		93,6	2,8	3	196		CVP	93,6	0,49	10%	84,2	103	196	196	100
(702) Abbott CELL-DYN Emerald		92,1	1,8	1,9	13	0							13		
(737) Siemens Advia 120, 2120, 2120i		95,2	0,74	0,78	6	0							6		
(755) Sysmex KX, XP, XQ series		94,2	1	1,1	6	0							6		
(765) Abbott CELL-DYN Ruby		93	2,1	2,3	15	0							15		
(768) MINDRAY BC 5xxx series		89,7	3,3	3,7	8	0							8		
(771) MINDRAY BC 6xxx, 7xx series		89,9	2,3	2,6	16	0							16		
(772) Sysmex XN, XR series		95,4	1,1	1,2	95	0							95		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		90,8	0,97	1,1	15	0							15		
(999) another system		91,4	0,89	0,97	6	0							6		

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Setup: groups - S (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			
Other					16	0	1x 716, 2x 718, 2x 741, 2x 743, 4x 749, 4x 763, 1x 766					16		
(156) RDW	[%]				178							173	170	98
Sample A		13,4	0,36	2,6	178							173	171	99
(1) Abbott; (702) Abbott CELL-DYN Emerald		13,4	0,51	3,8	12	0	CVPG	13,1	0,26	10%	11,7	14,5	12	
(1) Abbott; (765) Abbott CELL-DYN Ruby		12,8	0,44	3,4	15	0	CVPG	13,1	0,26	10%	11,7	14,5	15	
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		14,5	0,18	1,2	15	0	CVPG	14,4	0,12	10%	12,9	15,9	15	
(63) Sysmex; (772) Sysmex XN, XR series		13,4	0,13	1	89	0	CVPG	13,4	0,038	10%	12	14,8	89	
(177) Mindray; (768) MINDRAY BC 5xxx series		13,1	0,37	2,8	8	0	CVPG	13,6	0,25	10%	12,2	15	8	
(177) Mindray; (771) MINDRAY BC 6xxx, 7xx series		13,8	0,45	3,3	15	0	CVPG	13,6	0,25	10%	12,2	15	15	
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		13,5	0,59	4,4	6	0	CVPG	13,5	0,83	10%	12,1	14,9	6	
Other					18	0	3x 1/763, 2x 12/718, 3x 63/749, 2x 63/755, 2x 157/741, 1x 157/743, 1x 177/766, 2x 177/999, 1x 204/716, 1x 999/999					13		
Sample B		14,2	0,41	2,9	178							173	172	99
(1) Abbott; (702) Abbott CELL-DYN Emerald		14,2	0,5	3,5	12	0	CVPG	13,9	0,26	10%	12,5	15,3	12	
(1) Abbott; (765) Abbott CELL-DYN Ruby		13,6	0,43	3,2	15	0	CVPG	13,9	0,26	10%	12,5	15,3	15	
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		15,4	0,23	1,5	15	0	CVPG	15,4	0,15	10%	13,8	17	15	
(63) Sysmex; (772) Sysmex XN, XR series		14,1	0,16	1,1	89	0	CVPG	14,1	0,043	10%	12,6	15,6	89	
(177) Mindray; (768) MINDRAY BC 5xxx series		14,1	0,37	2,6	8	0	CVPG	14,5	0,27	10%	13	16	8	
(177) Mindray; (771) MINDRAY BC 6xxx, 7xx series		14,8	0,46	3,1	15	0	CVPG	14,5	0,27	10%	13	16	15	
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		14,4	0,67	4,6	6	0	CVPG	14,4	0,93	10%	12,9	15,9	6	
Other					18	0	3x 1/763, 2x 12/718, 3x 63/749, 2x 63/755, 2x 157/741, 1x 157/743, 1x 177/766, 2x 177/999, 1x 204/716, 1x 999/999					13		
(155) Platelets	[·10⁹/L]				196							196	192	98
Sample A		278	14	5	196		CVP	278	2,4	18%	227	329	196	192
(702) Abbott CELL-DYN Emerald		282	18	6,4	13	0							13	
(737) Siemens Advia 120, 2120, 2120i		236	13	5,4	6	0							6	
(755) Sysmex KX, XP, XQ series		285	16	5,7	6	0							6	
(765) Abbott CELL-DYN Ruby		262	15	5,8	15	0							15	
(768) MINDRAY BC 5xxx series		273	8,2	3	8	0							8	
(771) MINDRAY BC 6xxx, 7xx series		285	10	3,7	16	0							16	
(772) Sysmex XN, XR series		279	10	3,7	95	0							95	
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		279	9,4	3,4	15	0							15	
(999) another system		288	27	9,3	6	0							6	
Other					16	0	1x 716, 2x 718, 2x 741, 2x 743, 4x 749, 4x 763, 1x 766					16		
Sample B		185	9,8	5,3	196		CVP	185	1,7	18%	151	219	196	194
(702) Abbott CELL-DYN Emerald		190	18	9,4	13	0							13	
(737) Siemens Advia 120, 2120, 2120i		171	8,2	4,8	6	0							6	
(755) Sysmex KX, XP, XQ series		181	4,4	2,5	6	0							6	
(765) Abbott CELL-DYN Ruby		169	6,7	3,9	15	0							15	
(768) MINDRAY BC 5xxx series		185	12	6,4	8	0							8	
(771) MINDRAY BC 6xxx, 7xx series		189	11	5,9	16	0							16	
(772) Sysmex XN, XR series		188	5,4	2,9	95	0							95	
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		177	5,3	3	15	0							15	
(999) another system		187	6,7	3,6	6	0							6	
Other					16	0	1x 716, 2x 718, 2x 741, 2x 743, 4x 749, 4x 763, 1x 766					16		
(157) MPV	[fL]				172							166	156	94
Sample A		9,47	1	11	172							166	157	95
(1) Abbott; (702) Abbott CELL-DYN Emerald		7,8	0,59	7,6	8	0	CVPG	7	0,64	18%	5,74	8,26	8	
(1) Abbott; (765) Abbott CELL-DYN Ruby		6,24	0,72	12	15	0	CVPG	7	0,64	18%	5,74	8,26	15	
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		8,43	0,35	4,2	15	0	CVPG	8,37	0,22	18%	6,86	9,88	15	
(63) Sysmex; (772) Sysmex XN, XR series		9,94	0,31	3,1	84	0	CVPG	9,95	0,079	18%	8,15	11,8	84	
(177) Mindray; (768) MINDRAY BC 5xxx series		9,15	0,82	8,9	8	0	CVPG	9,74	0,23	18%	7,98	11,5	8	
(177) Mindray; (771) MINDRAY BC 6xxx, 7xx series		9,9	0,36	3,7	16	0	CVPG	9,74	0,23	18%	7,98	11,5	16	
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		11	0,74	6,7	6	0	CVPG	11	1	18%	9,02	13	6	
Other					20	0	2x 1/763, 2x 12/718, 3x 63/749, 4x 63/755, 2x 157/741, 1x 157/743, 1x 177/766, 2x 177/999, 1x 204/716, 1x 207/702, 1x 999/999					14		

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							AV	U _{AV}	D _{max}	LL	UL			
Sample B		11,4	1,1	9,8	172							166	159	96
(1) Abbott; (702) Abbott CELL-DYN Emerald		9,3	0,74	8	8	0	CVPG	8,87	0,47	18%	7,27	10,5		8
(1) Abbott; (765) Abbott CELL-DYN Ruby		8,4	0,61	7,2	15	0	CVPG	8,87	0,47	18%	7,27	10,5		15
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		10,3	0,29	2,8	15	0	CVPG	10,3	0,21	18%	8,44	12,2		15
(63) Sysmex; (772) Sysmex XN, XR series		12	0,35	2,9	84	0	CVPG	12	0,09	18%	9,84	14,2		84
(177) Mindray; (768) MINDRAY BC 5xxx series		11,1	0,96	8,7	8	0	CVPG	11,9	0,3	18%	9,75	14,1		8
(177) Mindray; (771) MINDRAY BC 6xxx, 7xx series		12,2	0,43	3,6	16	0	CVPG	11,9	0,3	18%	9,75	14,1		16
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		12,1	0,44	3,7	6	0	CVPG	12,1	0,62	18%	9,92	14,3		6
Other					20	1								14
														2x 1/763, 2x 12/718, 3x 63/749, 4x 63/755, 2x 157/741, 1x 157/743, 1x 177/766, 2x 177/999, 1x 204/716, 1x 207/702, 1x 999/999
(129) Immature platelet fraction	[%]				16							11	10	91
Sample A		3,47	0,87	25	16							11	10	91
(63) Sysmex; (772) Sysmex XN, XR series		3,66	0,58	16	11	0	CVPG	3,66	0,43	40%	2,19	5,13		11
Other					5	0								0
														2x 1/763, 3x 177/771
Sample B		7,05	2,3	32	16							11	10	91
(63) Sysmex; (772) Sysmex XN, XR series		8,11	0,9	11	11	0	CVPG	8,11	0,67	40%	4,86	11,4		11
Other					5	0								0
														2x 1/763, 3x 177/771
(158) PDW [%]	[%]				6							0		
Sample A		33,6	24	71	6							0		
Other					6	0						0		
														2x 157/741, 1x 157/743, 3x 179/737
Sample B		37	30	81	6							0		
Other					6	0						0		
														2x 157/741, 1x 157/743, 3x 179/737
(165) PDW [fL]	[fL]				88							88	82	93
Sample A		10,9	0,77	7,1	88		CVP	10,9	0,2	15%	9,26	12,6		88
(772) Sysmex XN, XR series		10,8	0,68	6,3	80	0								80
Other					8	0								8
														3x 749, 4x 755, 1x 999
Sample B		15,7	0,97	6,2	88		CVP	15,7	0,25	15%	13,3	18,1		88
(772) Sysmex XN, XR series		15,6	0,9	5,7	80	0								80
Other					8	0								8
														3x 749, 4x 755, 1x 999
(166) PDW [-]	[-]				20							20	20	100
Sample A		16,3	0,18	1,1	20		CVP	16,3	0,096	15%	13,8	18,8		20
(771) MINDRAY BC 6xxx, 7xx series		16,3	0,16	1	14	0								14
Other					6	0								6
														1x 766, 4x 768, 1x 999
Sample B		16,4	0,15	0,92	20		CVP	16,4	0,083	15%	13,9	18,9		20
(771) MINDRAY BC 6xxx, 7xx series		16,5	0,11	0,64	14	0								14
Other					6	0								6
														1x 766, 4x 768, 1x 999
(160) Neutrophiles	[·10 ⁹ /L]				162							134	130	97
Sample A		2,84	0,26	9,1	162							134	131	98
(702) Abbott CELL-DYN Emerald		2,34	0,12	4,9	10	0	CVP	2,92	0,033	25%	2,19	3,65		0
(737) Siemens Advia 120, 2120, 2120i		2,87	0,16	5,7	6	0	CVP	2,92	0,033	25%	2,19	3,65		6
(765) Abbott CELL-DYN Ruby		1,56	0,34	22	14	1	CVP	2,92	0,033	25%	2,19	3,65		0
(771) MINDRAY BC 6xxx, 7xx series		2,98	0,23	7,7	11	0	CVP	2,92	0,033	25%	2,19	3,65		11
(772) Sysmex XN, XR series		2,95	0,12	3,9	87	0	CVP	2,92	0,033	25%	2,19	3,65		87
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,89	0,18	6,2	15	0	CVP	2,92	0,033	25%	2,19	3,65		15
Other					19	0								15
														2x 718, 2x 743, 4x 749, 4x 763, 4x 768, 3x 999
Sample B		2,11	0,13	6,3	162							134	132	99
(702) Abbott CELL-DYN Emerald		1,87	0,12	6,5	10	0	CVP	2,15	0,019	25%	1,61	2,69		0
(737) Siemens Advia 120, 2120, 2120i		2,14	0,089	4,2	6	0	CVP	2,15	0,019	25%	1,61	2,69		6
(765) Abbott CELL-DYN Ruby		1,58	0,17	11	14	1	CVP	2,15	0,019	25%	1,61	2,69		0
(771) MINDRAY BC 6xxx, 7xx series		2,26	0,1	4,6	11	0	CVP	2,15	0,019	25%	1,61	2,69		11
(772) Sysmex XN, XR series		2,14	0,065	3	87	0	CVP	2,15	0,019	25%	1,61	2,69		87
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,21	0,2	9	15	0	CVP	2,15	0,019	25%	1,61	2,69		15
Other					19	0								15
														2x 718, 2x 743, 4x 749, 4x 763, 4x 768, 3x 999

EQA round: KO6/24 - Blood Count

Deadline: 20.9.2024

Setup: groups - S (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				
(161) Lymphocytes	[·10 ⁹ /L]				164							136	132	97	
Sample A		1,9	0,13	6,6	164							136	133	98	
(702) Abbott CELL-DYN Emerald		2,29	0,13	5,5	10	0	CVP	1,86	0,016	25%	1,39	2,33	0		
(737) Siemens Advia 120, 2120, 2120i		1,72	0,096	5,6	6	0	CVP	1,86	0,016	25%	1,39	2,33	6		
(765) Abbott CELL-DYN Ruby		2,26	0,27	12	14	1	CVP	1,86	0,016	25%	1,39	2,33	0		
(768) MINDRAY BC 5xxx series		2,12	0,2	9,5	5	0	CVP	1,86	0,016	25%	1,39	2,33	5		
(771) MINDRAY BC 6xxx, 7xx series		1,81	0,13	7,3	11	0	CVP	1,86	0,016	25%	1,39	2,33	11		
(772) Sysmex XN, XR series		1,86	0,058	3,1	87	0	CVP	1,86	0,016	25%	1,39	2,33	87		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		1,83	0,089	4,8	15	0	CVP	1,86	0,016	25%	1,39	2,33	15		
Other					16	0								12	
								2x 718, 2x 743, 4x 749, 1x 755, 4x 763, 3x 999							
Sample B		2,58	0,11	4,1	164							136	135	99	
(702) Abbott CELL-DYN Emerald		2,67	0,12	4,7	10	0	CVP	2,56	0,022	25%	1,92	3,2	0		
(737) Siemens Advia 120, 2120, 2120i		2,36	0,16	6,6	6	0	CVP	2,56	0,022	25%	1,92	3,2	6		
(765) Abbott CELL-DYN Ruby		2,68	0,18	6,6	14	1	CVP	2,56	0,022	25%	1,92	3,2	0		
(768) MINDRAY BC 5xxx series		2,43	0,24	10	5	0	CVP	2,56	0,022	25%	1,92	3,2	5		
(771) MINDRAY BC 6xxx, 7xx series		2,49	0,17	6,9	11	0	CVP	2,56	0,022	25%	1,92	3,2	11		
(772) Sysmex XN, XR series		2,6	0,061	2,3	87	0	CVP	2,56	0,022	25%	1,92	3,2	87		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,36	0,2	8,5	15	0	CVP	2,56	0,022	25%	1,92	3,2	15		
Other					16	0								12	
								2x 718, 2x 743, 4x 749, 1x 755, 4x 763, 3x 999							
(162) Monocytes	[·10 ⁹ /L]				162							162	159	98	
Sample A		0,433	0,069	16	162		CVP	0,433	0,013	50%	0,216	0,65	162	160	99
(702) Abbott CELL-DYN Emerald		0,374	0,11	30	10	0							10		
(737) Siemens Advia 120, 2120, 2120i		0,39	0,074	19	6	0							6		
(765) Abbott CELL-DYN Ruby		0,401	0,054	13	14	0							14		
(771) MINDRAY BC 6xxx, 7xx series		0,309	0,035	11	11	0							11		
(772) Sysmex XN, XR series		0,47	0,031	6,6	87	0							87		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,379	0,033	8,7	15	0							15		
Other					19	0								19	
								2x 718, 2x 743, 4x 749, 4x 763, 4x 768, 3x 999							
Sample B		0,334	0,045	14	162		CVP	0,334	0,009	50%	0,167	0,501	162	159	98
(702) Abbott CELL-DYN Emerald		0,276	0,066	24	10	0							10		
(737) Siemens Advia 120, 2120, 2120i		0,245	0,052	21	6	0							6		
(765) Abbott CELL-DYN Ruby		0,331	0,024	7,1	14	0							14		
(771) MINDRAY BC 6xxx, 7xx series		0,25	0,043	17	11	0							11		
(772) Sysmex XN, XR series		0,356	0,025	6,9	87	0							87		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,308	0,024	7,9	15	0							15		
Other					19	0								19	
								2x 718, 2x 743, 4x 749, 4x 763, 4x 768, 3x 999							
(163) Eosinophils	[·10 ⁹ /L]				161							161	150	93	
Sample A		0,124	0,022	17	161		CVP	0,124	0,004	50%	0,062	0,186	161	153	95
(702) Abbott CELL-DYN Emerald		0,082	0,029	35	10	0							10		
(737) Siemens Advia 120, 2120, 2120i		0,11	0,015	13	6	0							6		
(765) Abbott CELL-DYN Ruby		0,119	0,024	20	14	0							14		
(771) MINDRAY BC 6xxx, 7xx series		0,137	0,017	13	11	0							11		
(772) Sysmex XN, XR series		0,125	0,016	13	87	0							87		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,112	0,019	17	15	0							15		
Other					18	0								18	
								2x 718, 2x 743, 4x 749, 4x 763, 4x 768, 2x 999							
Sample B		0,116	0,018	15	161		CVP	0,116	0,003	50%	0,058	0,174	161	155	96
(702) Abbott CELL-DYN Emerald		0,087	0,018	21	10	0							10		
(737) Siemens Advia 120, 2120, 2120i		0,095	0,007	7,8	6	0							6		
(765) Abbott CELL-DYN Ruby		0,119	0,007	5,5	14	0							14		
(771) MINDRAY BC 6xxx, 7xx series		0,124	0,016	13	11	0							11		
(772) Sysmex XN, XR series		0,119	0,015	12	87	0							87		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,109	0,012	11	15	0							15		
Other					18	0								18	
								2x 718, 2x 743, 4x 749, 4x 763, 4x 768, 2x 999							
(164) Basophiles	[·10 ⁹ /L]				162							162	157	97	
Sample A		0,07	0,042	60	162		CVP	0,07	0,008	asym.	0	0,162	162	157	97
(702) Abbott CELL-DYN Emerald		0,016	0,024	150	10	0							10		
(737) Siemens Advia 120, 2120, 2120i		0,07	0,015	21	6	0							6		
(765) Abbott CELL-DYN Ruby		0,112	0,034	30	14	0							14		

EQA round: KO6/24 - Blood Count

Deadline: 20.9.2024

Setup: groups - S (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				
(768) MINDRAY BC 5xxx series		0,03	0,015	49	5	0							5		
(771) MINDRAY BC 6xxx, 7xx series		0,038	0,016	43	11	0							11		
(772) Sysmex XN, XR series		0,079	0,025	32	87	0							87		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,028	0,037	130	15	0							15		
Other					14	0							14		
							2x 718, 2x 743, 4x 749, 4x 763, 2x 999								
Sample B		0,03	0,023	76	162		CVP	0,03	0,004	asym.	0	0,155	162	162	100
(702) Abbott CELL-DYN Emerald		0,006	0,009	160	10	0							10		
(737) Siemens Advia 120, 2120, 2120i		0,03	0,015	49	6	0							6		
(765) Abbott CELL-DYN Ruby		0,088	0,019	22	14	0							14		
(768) MINDRAY BC 5xxx series		0,02	0	0	5	0							5		
(771) MINDRAY BC 6xxx, 7xx series		0,014	0,013	93	11	0							11		
(772) Sysmex XN, XR series		0,033	0,015	45	87	0							87		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,017	0,023	130	15	0							15		
Other					14	0							14		
							2x 718, 2x 743, 4x 749, 4x 763, 2x 999								