

EQA round: KO2/24 - Blood Count

Deadline: 12.4.2024

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]				188							188	185	98	
Sample A		4,63	0,19	4,1	188		CVP	4,63	0,034	15%	3,93	5,33	188	185	98
(702) Abbott CELL-DYN Emerald		4,37	0,25	5,7	10	0							10		
(749) Sysmex XE, XS, XT series		4,79	0,27	5,6	8	0							8		
(755) Sysmex KX, XP, XQ series		4,6	0,15	3,2	6	0							6		
(765) Abbott CELL-DYN Ruby		4,3	0,17	4	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		4,45	0,22	5	7	0							7		
(771) MINDRAY BC 6xxx series		4,64	0,14	2,9	17	0							17		
(772) Sysmex XN series		4,72	0,12	2,6	92	0							92		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,5	0,15	3,3	8	0							8		
(999) another system		4,3	0,59	14	8	0							8		
Other					17	0							17		
								3x 718, 1x 737, 4x 741, 3x 744, 4x 763, 2x 768							
Sample B		5,89	0,26	4,4	188		CVP	5,89	0,046	15%	5	6,78	188	188	100
(702) Abbott CELL-DYN Emerald		5,52	0,32	5,8	10	0							10		
(749) Sysmex XE, XS, XT series		6,1	0,3	4,9	8	0							8		
(755) Sysmex KX, XP, XQ series		5,8	0,15	2,6	6	0							6		
(765) Abbott CELL-DYN Ruby		5,39	0,22	4	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		5,55	0,37	6,7	7	0							7		
(771) MINDRAY BC 6xxx series		5,88	0,23	3,9	17	0							17		
(772) Sysmex XN series		6,02	0,14	2,3	92	0							92		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		5,85	0,22	3,8	8	0							8		
(999) another system		5,65	0,52	9,2	8	0							8		
Other					17	0							17		
								3x 718, 1x 737, 4x 741, 3x 744, 4x 763, 2x 768							
(151) RBC	[·10 ¹² /L]				188							188	186	99	
Sample A		3,87	0,064	1,7	188		CVP	3,87	0,011	7%	3,59	4,15	188	186	99
(702) Abbott CELL-DYN Emerald		3,75	0,093	2,5	10	0							10		
(749) Sysmex XE, XS, XT series		3,87	0,13	3,4	8	0							8		
(755) Sysmex KX, XP, XQ series		3,88	0,037	0,96	7	0							7		
(765) Abbott CELL-DYN Ruby		3,91	0,065	1,7	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		3,89	0,13	3,4	7	0							7		
(771) MINDRAY BC 6xxx series		3,87	0,076	2	17	0							17		
(772) Sysmex XN series		3,87	0,045	1,2	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,89	0,052	1,3	8	0							8		
(999) another system		3,82	0,13	3,3	8	0							8		
Other					17	0							17		
								3x 718, 1x 737, 4x 741, 3x 744, 4x 763, 2x 768							
Sample B		3,64	0,067	1,8	188		CVP	3,64	0,012	7%	3,38	3,9	188	188	100
(702) Abbott CELL-DYN Emerald		3,56	0,068	1,9	10	0							10		
(749) Sysmex XE, XS, XT series		3,64	0,13	3,7	8	0							8		
(755) Sysmex KX, XP, XQ series		3,64	0,082	2,2	7	0							7		
(765) Abbott CELL-DYN Ruby		3,71	0,08	2,2	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		3,66	0,052	1,4	7	0							7		
(771) MINDRAY BC 6xxx series		3,66	0,075	2	17	0							17		
(772) Sysmex XN series		3,63	0,048	1,3	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,64	0,074	2	8	0							8		
(999) another system		3,57	0,074	2,1	8	0							8		
Other					17	0							17		
								3x 718, 1x 737, 4x 741, 3x 744, 4x 763, 2x 768							
(152) Haemoglobin	[g/L]				194							194	193	99	
Sample A		123	2	1,6	194		CVP	123	0,35	6%	115	131	194	193	99
(702) Abbott CELL-DYN Emerald		125	3,6	2,9	10	0							10		
(749) Sysmex XE, XS, XT series		124	3,7	3	8	0							8		
(755) Sysmex KX, XP, XQ series		123	1,5	1,2	7	0							7		
(765) Abbott CELL-DYN Ruby		125	2,5	2	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		124	3	2,4	7	0							7		
(771) MINDRAY BC 6xxx series		123	1,6	1,3	17	0							17		
(772) Sysmex XN series		123	1,5	1,2	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		124	2,2	1,8	8	0							8		
(999) another system		124	3,7	3	14	0							14		
Other					17	0							17		
							3x 718, 1x 737, 4x 741, 3x 744, 4x 763, 2x 768								
Sample B		125	2	1,6	194		CVP	125	0,35	6%	117	133	194	193	99
(702) Abbott CELL-DYN Emerald		127	3,2	2,5	10	0							10		
(749) Sysmex XE, XS, XT series		126	3,7	3	8	0							8		
(755) Sysmex KX, XP, XQ series		126	2,2	1,8	7	0							7		
(765) Abbott CELL-DYN Ruby		126	2,2	1,7	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		127	2,2	1,8	7	0							7		
(771) MINDRAY BC 6xxx series		125	1,9	1,5	17	0							17		
(772) Sysmex XN series		124	1,6	1,2	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		125	2,2	1,8	8	0							8		
(999) another system		126	2,6	2,1	14	0							14		
Other					17	0							17		
							3x 718, 1x 737, 4x 741, 3x 744, 4x 763, 2x 768								
(153) HCT	[-]				188								188	183	97
Sample A		0,393	0,012	3,1	188		CVP	0,393	0,002	10%	0,353	0,433	188	184	98
(702) Abbott CELL-DYN Emerald		0,376	0,014	3,8	10	0							10		
(749) Sysmex XE, XS, XT series		0,397	0,013	3,2	8	0							8		
(755) Sysmex KX, XP, XQ series		0,391	0,007	1,7	7	0							7		
(765) Abbott CELL-DYN Ruby		0,395	0,013	3,3	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		0,377	0,025	6,5	7	0							7		
(771) MINDRAY BC 6xxx series		0,382	0,01	2,6	17	0							17		
(772) Sysmex XN series		0,399	0,006	1,5	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,385	0,003	0,78	8	0							8		
(999) another system		0,384	0,022	5,8	8	0							8		
Other					17	0							17		
							3x 718, 1x 737, 4x 741, 3x 744, 4x 763, 2x 768								
Sample B		0,393	0,012	3	188		CVP	0,393	0,002	10%	0,353	0,433	188	186	99
(702) Abbott CELL-DYN Emerald		0,38	0,011	2,8	10	0							10		
(749) Sysmex XE, XS, XT series		0,395	0,013	3,2	8	0							8		
(755) Sysmex KX, XP, XQ series		0,388	0,003	0,77	7	0							7		
(765) Abbott CELL-DYN Ruby		0,393	0,012	3,1	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		0,379	0,015	3,9	7	0							7		
(771) MINDRAY BC 6xxx series		0,387	0,011	2,7	17	0							17		
(772) Sysmex XN series		0,4	0,006	1,5	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,383	0,006	1,5	8	0							8		
(999) another system		0,38	0,03	7,8	8	0							8		
Other					17	0							17		
							3x 718, 1x 737, 4x 741, 3x 744, 4x 763, 2x 768								
(154) MCV	[fL]				188								188	185	98
Sample A		102	2,9	2,8	188		CVP	102	0,51	10%	91,8	113	188	185	98
(702) Abbott CELL-DYN Emerald		99,8	1,9	1,9	10	0							10		
(749) Sysmex XE, XS, XT series		103	4,4	4,2	8	0							8		
(755) Sysmex KX, XP, XQ series		101	2,3	2,3	7	0							7		
(765) Abbott CELL-DYN Ruby		101	2,2	2,2	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		98,5	2,3	2,3	7	0							7		
(771) MINDRAY BC 6xxx series		98,6	1,4	1,4	17	0							17		
(772) Sysmex XN series		103	1,3	1,2	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		99,3	1,1	1,1	8	0							8		
(999) another system		99,2	4,2	4,2	8	0							8		
Other					17	0							17		
							3x 718, 1x 737, 4x 741, 3x 744, 4x 763, 2x 768								
Sample B		108	3,2	2,9	188		CVP	108	0,56	10%	97,2	119	188	186	99
(702) Abbott CELL-DYN Emerald		107	2,6	2,4	10	0							10		
(749) Sysmex XE, XS, XT series		110	4,7	4,3	8	0							8		
(755) Sysmex KX, XP, XQ series		107	2,4	2,2	7	0							7		
(765) Abbott CELL-DYN Ruby		106	2,7	2,5	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		104	1,8	1,7	7	0							7		
(771) MINDRAY BC 6xxx series		106	1,6	1,5	17	0							17		
(772) Sysmex XN series		110	1,6	1,4	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		106	1,3	1,3	8	0							8		
(999) another system		106	5,7	5,4	8	0							8		

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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					17	0						17			
(156) RDW	[%]				172		3x 718, 1x 737, 4x 741, 3x 744, 4x 763, 2x 768					169	166	98	
Sample A		13,6	0,44	3,3	172							169	166	98	
(1) Abbott; (702) Abbott CELL-DYN Emerald		13,5	0,82	6,1	9	0	CVPG	13,4	0,32	10%	12	14,8	9		
(1) Abbott; (765) Abbott CELL-DYN Ruby		13,3	0,61	4,6	15	0	CVPG	13,4	0,32	10%	12	14,8	15		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		15,2	0,37	2,4	8	0	CVPG	15	0,47	10%	13,5	16,5	8		
(63) Sysmex; (749) Sysmex XE, XS, XT series		13,8	0,3	2,1	7	0	CVPG	13,6	0,044	10%	12,2	15	7		
(63) Sysmex; (772) Sysmex XN series		13,5	0,17	1,3	86	0	CVPG	13,6	0,044	10%	12,2	15	86		
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		14,7	0,37	2,5	6	0	CVPG	14,2	0,29	10%	12,7	15,7	6		
(177) Mindray; (771) MINDRAY BC 6xxx series		14	0,41	2,9	17	0	CVPG	14,2	0,29	10%	12,7	15,7	17		
Other					24	0						21			
							3x 1/763, 3x 12/718, 4x 63/755, 3x 157/741, 3x 157/744, 2x 177/768, 3x 177/999, 1x 179/737, 1x 204/999, 1x 999/999								
Sample B		12,9	0,49	3,8	172							169	169	100	
(1) Abbott; (702) Abbott CELL-DYN Emerald		12,7	0,52	4,1	9	0	CVPG	12,2	0,37	10%	10,9	13,5	9		
(1) Abbott; (765) Abbott CELL-DYN Ruby		12	0,59	4,9	15	0	CVPG	12,2	0,37	10%	10,9	13,5	15		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		13,7	0,37	2,7	8	0	CVPG	13,7	0,23	10%	12,3	15,1	8		
(63) Sysmex; (749) Sysmex XE, XS, XT series		13,2	0,44	3,4	7	0	CVPG	12,8	0,042	10%	11,5	14,1	7		
(63) Sysmex; (772) Sysmex XN series		12,8	0,14	1,1	86	0	CVPG	12,8	0,042	10%	11,5	14,1	86		
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		13,9	0,37	2,7	6	0	CVPG	13,4	0,23	10%	12	14,8	6		
(177) Mindray; (771) MINDRAY BC 6xxx series		13,3	0,34	2,5	17	0	CVPG	13,4	0,23	10%	12	14,8	17		
Other					24	0						21			
							3x 1/763, 3x 12/718, 4x 63/755, 3x 157/741, 3x 157/744, 2x 177/768, 3x 177/999, 1x 179/737, 1x 204/999, 1x 999/999								
(155) Platelets	[·10 ⁹ /L]				188							188	184	98	
Sample A		252	12	4,7	188		CVP	252	2,1	18%	206	298	188	185	98
(702) Abbott CELL-DYN Emerald		252	18	7,3	10	0							10		
(749) Sysmex XE, XS, XT series		259	17	6,6	8	0							8		
(755) Sysmex KX, XP, XQ series		255	5,2	2	7	0							7		
(765) Abbott CELL-DYN Ruby		233	13	5,4	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		265	16	6,2	7	0							7		
(771) MINDRAY BC 6xxx series		257	11	4,5	17	0							17		
(772) Sysmex XN series		253	9	3,5	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		251	8,9	3,5	8	0							8		
(999) another system		255	16	6,1	8	0							8		
Other					17	0						17			
							3x 718, 1x 737, 4x 741, 3x 744, 4x 763, 2x 768								
Sample B		246	11	4,5	188		CVP	246	2	18%	201	291	188	187	99
(702) Abbott CELL-DYN Emerald		255	22	8,6	10	0							10		
(749) Sysmex XE, XS, XT series		243	12	4,9	8	0							8		
(755) Sysmex KX, XP, XQ series		245	7,4	3	7	0							7		
(765) Abbott CELL-DYN Ruby		229	12	5,3	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		258	13	4,9	7	0							7		
(771) MINDRAY BC 6xxx series		246	10	4,2	17	0							17		
(772) Sysmex XN series		247	7,2	2,9	91	0							91		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		247	12	4,8	8	0							8		
(999) another system		241	19	8	8	0							8		
Other					17	0						17			
							3x 718, 1x 737, 4x 741, 3x 744, 4x 763, 2x 768								
(157) MPV	[fL]				162							156	153	98	
Sample A		9,57	1	10	162							156	153	98	
(1) Abbott; (765) Abbott CELL-DYN Ruby		6,06	0,57	9,4	14	0	CVPG	6,33	0,5	18%	5,19	7,47	14		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		8,45	0,37	4,4	8	0	CVPG	8,28	0,26	18%	6,78	9,78	8		
(63) Sysmex; (749) Sysmex XE, XS, XT series		10,8	0,67	6,2	6	0	CVPG	10	0,082	18%	8,2	11,8	6		
(63) Sysmex; (772) Sysmex XN series		9,96	0,31	3,1	84	0	CVPG	10	0,082	18%	8,2	11,8	84		
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		9,25	0,96	10	6	0	CVPG	9,93	0,34	18%	8,14	11,8	6		
(177) Mindray; (771) MINDRAY BC 6xxx series		10	0,57	5,7	17	0	CVPG	9,93	0,34	18%	8,14	11,8	17		
Other					27	0						21			
							2x 763, 3x 1/702, 3x 12/718, 4x 63/755, 3x 157/741, 3x 157/744, 2x 177/768, 3x 177/999, 1x 179/737, 1x 204/999, 1x 207/702, 1x 999/999								

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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			
Sample B		9,33	0,9	9,6	162							156	154	99
(1) Abbott; (765) Abbott CELL-DYN Ruby		5,99	0,55	9,2	14	0	CVPG	6,21	0,44	18%	5,09	7,33	14	
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		8,15	0,22	2,7	8	0	CVPG	8,03	0,17	18%	6,58	9,48	8	
(63) Sysmex; (749) Sysmex XE, XS, XT series		10,3	0,52	5,1	6	0	CVPG	9,74	0,064	18%	7,98	11,5	6	
(63) Sysmex; (772) Sysmex XN series		9,72	0,23	2,4	84	0	CVPG	9,74	0,064	18%	7,98	11,5	84	
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		9,04	0,39	4,3	6	0	CVPG	9,63	0,26	18%	7,89	11,4	6	
(177) Mindray; (771) MINDRAY BC 6xxx series		9,73	0,42	4,3	17	0	CVPG	9,63	0,26	18%	7,89	11,4	17	
Other					27	0							21	
														2x 763, 3x 1/702, 3x 12/718, 4x 63/755, 3x 157/741, 3x 157/744, 2x 177/768, 3x 177/999, 1x 179/737, 1x 204/999, 1x 207/702, 1x 999/999
(129) Immature platelet fraction	[%]				19							18	16	89
Sample A		3,84	1,3	33	19							18	16	89
(63) Sysmex; (772) Sysmex XN series		4,56	0,83	18	12	0	CVPG	4,56	0,59	40%	2,73	6,39	12	
(177) Mindray; (771) MINDRAY BC 6xxx series		2,65	0,52	20	6	0	CVPG	2,65	0,72	40%	1,59	3,71	6	
Other					1	0							0	
														1x 1/763
Sample B		2,57	1	39	19							18	17	94
(63) Sysmex; (772) Sysmex XN series		3,14	0,6	19	12	0	CVPG	3,14	0,42	40%	1,88	4,4	12	
(177) Mindray; (771) MINDRAY BC 6xxx series		1,5	0,15	9,9	6	0	CVPG	1,5	0,21	40%	0,9	2,1	6	
Other					1	0							0	
														1x 1/763
(158) PDW [%]	[%]				6							6	6	100
Sample A					6	0						6	6	100
Other					6	0						6		
														3x 157/741, 3x 157/744
Sample B					6	0						6	6	100
Other					6	0						6		
														3x 157/741, 3x 157/744
(165) PDW [fL]	[fL]				92							92	89	97
Sample A		10,9	0,78	7,1	92		CVP	10,9	0,2	15%	9,26	12,6	92	90
(749) Sysmex XE, XS, XT series		12,1	0,82	6,8	7	0							7	
(772) Sysmex XN series		10,8	0,66	6,1	80	0							80	
Other					5	0							5	
														4x 755, 1x 999
Sample B		10,2	0,52	5,1	92		CVP	10,2	0,13	15%	8,67	11,8	92	90
(749) Sysmex XE, XS, XT series		10,6	0,82	7,7	7	0							7	
(772) Sysmex XN series		10,1	0,45	4,5	80	0							80	
Other					5	0							5	
														4x 755, 1x 999
(166) PDW [-]	[-]				25							25	25	100
Sample A		16,3	0,22	1,3	25		CVP	16,3	0,11	15%	13,8	18,8	25	25
(766) MINDRAY BC 2xxx, 3xxx series		16	0,074	0,46	6	0							6	
(771) MINDRAY BC 6xxx series		16,3	0,13	0,81	15	0							15	
Other					4	0							4	
														2x 768, 2x 999
Sample B		15,8	0,17	1,1	25		CVP	15,8	0,084	15%	13,4	18,2	25	25
(766) MINDRAY BC 2xxx, 3xxx series		15,7	0,3	1,9	6	0							6	
(771) MINDRAY BC 6xxx series		15,8	0,15	0,94	15	0							15	
Other					4	0							4	
														2x 768, 2x 999
(160) Neutrophiles	[·10 ⁹ /L]				147							133	127	95
Sample A		2,47	0,19	7,9	147							133	128	96
(702) Abbott CELL-DYN Emerald		2,1	0,15	7,1	7	0	CVP	2,51	0,03	25%	1,88	3,14	7	
(749) Sysmex XE, XS, XT series		2,54	0,067	2,6	7	0	CVP	2,51	0,03	25%	1,88	3,14	7	
(765) Abbott CELL-DYN Ruby		1,07	0,27	25	14	1	CVPG	1,07	0,18	25%	0,802	1,34	0	
(771) MINDRAY BC 6xxx series		2,74	0,13	4,7	13	0	CVP	2,51	0,03	25%	1,88	3,14	13	
(772) Sysmex XN series		2,51	0,09	3,6	85	0	CVP	2,51	0,03	25%	1,88	3,14	85	
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,5	0,15	5,9	8	0	CVP	2,51	0,03	25%	1,88	3,14	8	
Other					13	0							13	
														3x 718, 2x 744, 4x 763, 1x 768, 3x 999
Sample B		2,99	0,2	6,7	147							133	128	96
(702) Abbott CELL-DYN Emerald		2,51	0,16	6,2	7	0	CVP	3,03	0,03	25%	2,27	3,79	7	
(749) Sysmex XE, XS, XT series		3,13	0,074	2,4	7	0	CVP	3,03	0,03	25%	2,27	3,79	7	
(765) Abbott CELL-DYN Ruby		1,18	0,28	24	14	0	CVPG	1,18	0,18	25%	0,885	1,48	0	
(771) MINDRAY BC 6xxx series		3,2	0,1	3,2	13	1	CVP	3,03	0,03	25%	2,27	3,79	13	
(772) Sysmex XN series		3,04	0,1	3,3	85	0	CVP	3,03	0,03	25%	2,27	3,79	85	

EQA round: KO2/24 - Blood Count

Deadline: 12.4.2024

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				
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series Other		3,1	0,15	4,8	8	0	CVP	3,03	0,03	25%	2,27	3,79	8		
					13	0							13		
															3x 718, 2x 744, 4x 763, 1x 768, 3x 999
(161) Lymphocytes	[·10⁹/L]				147								133	129	97
Sample A		1,6	0,12	7,7	147								133	129	97
(702) Abbott CELL-DYN Emerald		1,8	0,057	3,2	7	0	CVP	1,57	0,019	25%	1,17	1,97	7		
(749) Sysmex XE, XS, XT series		1,63	0,12	7,3	7	0	CVP	1,57	0,019	25%	1,17	1,97	7		
(765) Abbott CELL-DYN Ruby		2,59	0,36	14	14	0	CVPG	2,59	0,24	25%	1,94	3,24	0		
(771) MINDRAY BC 6xxx series		1,49	0,064	4,3	13	0	CVP	1,57	0,019	25%	1,17	1,97	13		
(772) Sysmex XN series		1,56	0,058	3,7	84	0	CVP	1,57	0,019	25%	1,17	1,97	84		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series Other		1,5	0,14	9,5	8	0	CVP	1,57	0,019	25%	1,17	1,97	8		
					14	0							14		
															3x 718, 2x 744, 1x 755, 4x 763, 1x 768, 3x 999
Sample B		2,44	0,13	5,2	147								133	130	98
(702) Abbott CELL-DYN Emerald		2,58	0,11	4,3	7	0	CVP	2,41	0,021	25%	1,8	3,02	7		
(749) Sysmex XE, XS, XT series		2,42	0,16	6,4	7	0	CVP	2,41	0,021	25%	1,8	3,02	7		
(765) Abbott CELL-DYN Ruby		3,65	0,42	11	14	0	CVPG	3,65	0,27	25%	2,73	4,57	0		
(771) MINDRAY BC 6xxx series		2,35	0,097	4,1	13	0	CVP	2,41	0,021	25%	1,8	3,02	13		
(772) Sysmex XN series		2,42	0,076	3,1	84	0	CVP	2,41	0,021	25%	1,8	3,02	84		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series Other		2,27	0,11	4,7	8	0	CVP	2,41	0,021	25%	1,8	3,02	8		
					14	0							14		
															3x 718, 2x 744, 1x 755, 4x 763, 1x 768, 3x 999
(162) Monocytes	[·10⁹/L]				147								131	129	98
Sample A		0,433	0,078	18	147								131	129	98
(702) Abbott CELL-DYN Emerald		0,4	0,15	37	7	0	CVP	0,448	0,014	50%	0,224	0,672	7		
(749) Sysmex XE, XS, XT series		0,495	0,037	7,5	7	0	CVP	0,448	0,014	50%	0,224	0,672	7		
(765) Abbott CELL-DYN Ruby		0,429	0,082	19	14	0	CVP	0,448	0,014	50%	0,224	0,672	14		
(771) MINDRAY BC 6xxx series		0,232	0,14	62	13	0	CVP	0,448	0,014	50%	0,224	0,672	0		
(772) Sysmex XN series		0,459	0,047	10	85	0	CVP	0,448	0,014	50%	0,224	0,672	85		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series Other		0,4	0	0	8	0	CVP	0,448	0,014	50%	0,224	0,672	8		
					13	0							10		
															3x 718, 2x 744, 4x 763, 1x 768, 3x 999
Sample B		0,374	0,065	17	147								131	129	98
(702) Abbott CELL-DYN Emerald		0,35	0,074	21	7	0	CVP	0,387	0,011	50%	0,193	0,581	7		
(749) Sysmex XE, XS, XT series		0,43	0,03	6,9	7	0	CVP	0,387	0,011	50%	0,193	0,581	7		
(765) Abbott CELL-DYN Ruby		0,333	0,059	18	14	0	CVP	0,387	0,011	50%	0,193	0,581	14		
(771) MINDRAY BC 6xxx series		0,201	0,1	51	13	0	CVP	0,387	0,011	50%	0,193	0,581	0		
(772) Sysmex XN series		0,397	0,041	10	85	0	CVP	0,387	0,011	50%	0,193	0,581	85		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series Other		0,35	0,074	21	8	0	CVP	0,387	0,011	50%	0,193	0,581	8		
					13	0							10		
															3x 718, 2x 744, 4x 763, 1x 768, 3x 999
(163) Eosinophils	[·10⁹/L]				146								146	144	99
Sample A		0,118	0,018	16	146		CVP	0,118	0,004	50%	0,059	0,177	146	145	99
(702) Abbott CELL-DYN Emerald		0,095	0,007	7,8	7	0							7		
(749) Sysmex XE, XS, XT series		0,125	0,037	30	7	0							7		
(765) Abbott CELL-DYN Ruby		0,114	0,015	13	14	0							14		
(771) MINDRAY BC 6xxx series		0,121	0,019	16	13	0							13		
(772) Sysmex XN series		0,12	0,017	14	85	0							85		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series Other		0,103	0,004	3,6	8	0							8		
					12	0							12		
															3x 718, 2x 744, 4x 763, 1x 768, 2x 999
Sample B		0,108	0,016	15	146		CVP	0,108	0,003	50%	0,054	0,162	146	144	99
(702) Abbott CELL-DYN Emerald		0,09	0,015	16	7	0							7		
(749) Sysmex XE, XS, XT series		0,115	0,007	6,4	7	0							7		
(765) Abbott CELL-DYN Ruby		0,093	0,019	20	14	0							14		
(771) MINDRAY BC 6xxx series		0,116	0,016	14	13	0							13		
(772) Sysmex XN series		0,109	0,014	13	85	0							85		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series Other		0,1	0	0	8	0							8		
					12	0							12		
															3x 718, 2x 744, 4x 763, 1x 768, 2x 999
(164) Basophiles	[·10⁹/L]				146								132	128	97
Sample A		0,066	0,036	55	146								132	130	98
(702) Abbott CELL-DYN Emerald		0,006	0,008	150	7	0	CVP	0,061	0,007	asym.	0	0,139	7		

EQA round: KO2/24 - Blood Count

Deadline: 12.4.2024

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				
(749) Sysmex XE, XS, XT series		0,065	0,037	57	7	0	CVP	0,061	0,007	asym.	0	0,139	7		
(765) Abbott CELL-DYN Ruby		0,154	0,051	33	14	0	CVPG	0,154	0,033	100%	0	0,308	0		
(771) MINDRAY BC 6xxx series		0,041	0,018	44	13	0	CVP	0,061	0,007	asym.	0	0,139	13		
(772) Sysmex XN series		0,071	0,023	32	85	0	CVP	0,061	0,007	asym.	0	0,139	85		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,05	0,074	150	8	0	CVP	0,061	0,007	asym.	0	0,139	8		
Other					12	0							12		
							3x 718, 2x 744, 4x 763, 1x 768, 2x 999								
Sample B		0,061	0,046	75	146							132	130	98	
(702) Abbott CELL-DYN Emerald		0	0		7	0	CVP	0,053	0,008	asym.	0	0,177	7		
(749) Sysmex XE, XS, XT series		0,05	0,03	59	7	0	CVP	0,053	0,008	asym.	0	0,177	7		
(765) Abbott CELL-DYN Ruby		0,139	0,03	22	14	0	CVPG	0,139	0,02	100%	0	0,278	0		
(771) MINDRAY BC 6xxx series		0,012	0,004	29	13	0	CVP	0,053	0,008	asym.	0	0,177	13		
(772) Sysmex XN series		0,069	0,031	45	85	0	CVP	0,053	0,008	asym.	0	0,177	85		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,019	0,029	150	8	0	CVP	0,053	0,008	asym.	0	0,177	8		
Other					12	0							12		
							3x 718, 2x 744, 4x 763, 1x 768, 2x 999								