

EQA round: KO6/23 - Blood Count

Deadline: 22.9.2023

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]				195							195	194	99		
Sample A		5,48	0,21	3,8	195		CVP	5,48	0,036	15%	4,65	6,31	195	195	100	
(702) Abbott CELL-DYN Emerald		5,22	0,24	4,5	11	0							11			
(737) Siemens Advia 120, 2120, 2120i		5,08	0,17	3,4	5	0							5			
(749) Sysmex XE, XS, XT series		5,59	0,14	2,5	5	0							5			
(755) Sysmex KX series		5,5	0,08	1,4	10	0							10			
(763) Abbott Alinity, CELL-DYN Sapphire		5,48	0,059	1,1	6	0							6			
(765) Abbott CELL-DYN Ruby		5,48	0,26	4,8	18	0							18			
(771) MINDRAY BC 6xxx series		5,56	0,076	1,4	15	0							15			
(772) Sysmex XN series		5,58	0,14	2,5	88	0							88			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		5,25	0,14	2,6	15	0							15			
(999) another system		5,36	0,23	4,3	7	0							7			
Other					15	0							15			
								1x 716, 3x 718, 2x 741, 4x 743, 1x 744, 1x 766, 3x 768								
Sample B		6,58	0,25	3,8	195		CVP	6,58	0,043	15%	5,59	7,57	195	194	99	
(702) Abbott CELL-DYN Emerald		6,24	0,25	4	11	0							11			
(737) Siemens Advia 120, 2120, 2120i		6,12	0,16	2,7	5	0							5			
(749) Sysmex XE, XS, XT series		6,73	0,074	1,1	5	0							5			
(755) Sysmex KX series		6,65	0,23	3,5	10	0							10			
(763) Abbott Alinity, CELL-DYN Sapphire		6,49	0,16	2,4	6	0							6			
(765) Abbott CELL-DYN Ruby		6,47	0,16	2,4	18	0							18			
(771) MINDRAY BC 6xxx series		6,64	0,14	2,1	15	0							15			
(772) Sysmex XN series		6,71	0,16	2,3	88	0							88			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		6,42	0,2	3,2	15	0							15			
(999) another system		6,55	0,37	5,7	7	0							7			
Other					15	0							15			
								1x 716, 3x 718, 2x 741, 4x 743, 1x 744, 1x 766, 3x 768								
(151) RBC	[·10 ¹² /L]				195								195	193	99	
Sample A		4,28	0,066	1,5	195		CVP	4,28	0,012	7%	3,98	4,58	195	194	99	
(702) Abbott CELL-DYN Emerald		4,21	0,066	1,6	11	0							11			
(737) Siemens Advia 120, 2120, 2120i		4,38	0,037	0,85	5	0							5			
(749) Sysmex XE, XS, XT series		4,33	0,067	1,5	5	0							5			
(755) Sysmex KX series		4,3	0,065	1,5	10	0							10			
(763) Abbott Alinity, CELL-DYN Sapphire		4,25	0,074	1,7	6	0							6			
(765) Abbott CELL-DYN Ruby		4,32	0,11	2,5	18	0							18			
(771) MINDRAY BC 6xxx series		4,28	0,063	1,5	15	0							15			
(772) Sysmex XN series		4,28	0,05	1,2	88	0							88			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,26	0,066	1,6	15	0							15			
(999) another system		4,32	0,067	1,5	7	0							7			
Other					15	0							15			
								1x 716, 3x 718, 2x 741, 4x 743, 1x 744, 1x 766, 3x 768								
Sample B		4,73	0,074	1,6	195		CVP	4,73	0,013	7%	4,39	5,07	195	193	99	
(702) Abbott CELL-DYN Emerald		4,6	0,086	1,9	11	0							11			
(737) Siemens Advia 120, 2120, 2120i		4,8	0,052	1,1	5	0							5			
(749) Sysmex XE, XS, XT series		4,79	0,1	2,2	5	0							5			
(755) Sysmex KX series		4,74	0,085	1,8	10	0							10			
(763) Abbott Alinity, CELL-DYN Sapphire		4,72	0,067	1,4	6	0							6			
(765) Abbott CELL-DYN Ruby		4,78	0,13	2,6	18	0							18			
(771) MINDRAY BC 6xxx series		4,75	0,069	1,4	15	0							15			
(772) Sysmex XN series		4,73	0,056	1,2	88	0							88			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,68	0,097	2,1	15	0							15			
(999) another system		4,77	0,096	2	7	0							7			
Other					15	0							15			
								1x 716, 3x 718, 2x 741, 4x 743, 1x 744, 1x 766, 3x 768								
(152) Haemoglobin	[g/L]				200								200	200	100	
Sample A		128	2	1,6	200		CVP	128	0,35	6%	120	136	200	200	100	
(702) Abbott CELL-DYN Emerald		131	2,9	2,2	11	0							11			
(737) Siemens Advia 120, 2120, 2120i		131	0	0	5	0							5			
(749) Sysmex XE, XS, XT series		128	0,74	0,58	5	0							5			
(755) Sysmex KX series		127	1,6	1,2	10	0							10			

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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					
(763) Abbott Alinity, CELL-DYN Sapphire		130	1,5	1,1	6	0								6		
(765) Abbott CELL-DYN Ruby		129	2,2	1,7	18	0								18		
(771) MINDRAY BC 6xxx series		128	2,3	1,8	15	0								15		
(772) Sysmex XN series		127	1,4	1,1	88	0								88		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		127	1,4	1,1	14	0								14		
(999) another system		128	2,5	1,9	13	0								13		
Other					15	0								15		
							1x 716, 3x 718, 2x 741, 4x 743, 1x 744, 1x 766, 3x 768									
Sample B		142	2,2	1,5	200		CVP	142	0,38	6%	133	151	200	200	100	
(702) Abbott CELL-DYN Emerald		144	2,8	1,9	11	0								11		
(737) Siemens Advia 120, 2120, 2120i		144	1,5	1	5	0								5		
(749) Sysmex XE, XS, XT series		142	0	0	5	0								5		
(755) Sysmex KX series		141	1,5	1,1	10	0								10		
(763) Abbott Alinity, CELL-DYN Sapphire		145	2,2	1,5	6	0								6		
(765) Abbott CELL-DYN Ruby		143	3,1	2,2	18	0								18		
(771) MINDRAY BC 6xxx series		142	2,3	1,6	15	0								15		
(772) Sysmex XN series		141	1,5	1,1	88	0								88		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		140	1,7	1,2	14	0								14		
(999) another system		143	3,3	2,3	13	0								13		
Other					15	0								15		
							1x 716, 3x 718, 2x 741, 4x 743, 1x 744, 1x 766, 3x 768									
(153) HCT	[-]				195								195	193	99	
Sample A		0,426	0,015	3,4	195		CVP	0,426	0,003	10%	0,383	0,469	195	194	99	
(702) Abbott CELL-DYN Emerald		0,408	0,011	2,7	11	0								11		
(737) Siemens Advia 120, 2120, 2120i		0,437	0,004	0,85	5	0								5		
(749) Sysmex XE, XS, XT series		0,431	0,013	3,1	5	0								5		
(755) Sysmex KX series		0,427	0,003	0,75	10	0								10		
(763) Abbott Alinity, CELL-DYN Sapphire		0,421	0,005	1,2	6	0								6		
(765) Abbott CELL-DYN Ruby		0,427	0,013	3,1	18	0								18		
(771) MINDRAY BC 6xxx series		0,414	0,01	2,5	15	0								15		
(772) Sysmex XN series		0,436	0,007	1,5	88	0								88		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,415	0,007	1,6	15	0								15		
(999) another system		0,414	0,016	3,8	7	1								7		
Other					15	0								15		
							1x 716, 3x 718, 2x 741, 4x 743, 1x 744, 1x 766, 3x 768									
Sample B		0,462	0,017	3,6	195		CVP	0,462	0,003	10%	0,415	0,509	195	193	99	
(702) Abbott CELL-DYN Emerald		0,439	0,013	2,9	11	0								11		
(737) Siemens Advia 120, 2120, 2120i		0,466	0,005	1,1	5	0								5		
(749) Sysmex XE, XS, XT series		0,467	0,003	0,64	5	0								5		
(755) Sysmex KX series		0,462	0,006	1,3	10	0								10		
(763) Abbott Alinity, CELL-DYN Sapphire		0,453	0,004	0,97	6	0								6		
(765) Abbott CELL-DYN Ruby		0,461	0,014	2,9	18	0								18		
(771) MINDRAY BC 6xxx series		0,453	0,012	2,6	15	0								15		
(772) Sysmex XN series		0,473	0,008	1,6	88	0								88		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,446	0,005	1,1	15	0								15		
(999) another system		0,452	0,017	3,8	7	1								7		
Other					15	0								15		
							1x 716, 3x 718, 2x 741, 4x 743, 1x 744, 1x 766, 3x 768									
(154) MCV	[fL]				195								195	193	99	
Sample A		99,6	3,1	3,1	195		CVP	99,6	0,54	10%	89,6	110	195	193	99	
(702) Abbott CELL-DYN Emerald		97	1,8	1,9	11	0								11		
(737) Siemens Advia 120, 2120, 2120i		100	1,3	1,3	5	0								5		
(749) Sysmex XE, XS, XT series		99,5	2,1	2,1	5	0								5		
(755) Sysmex KX series		99,3	1,1	1,1	10	0								10		
(763) Abbott Alinity, CELL-DYN Sapphire		98,5	0,67	0,68	6	0								6		
(765) Abbott CELL-DYN Ruby		98,8	1,8	1,8	18	0								18		
(771) MINDRAY BC 6xxx series		96,1	1,9	2	15	0								15		
(772) Sysmex XN series		102	1,1	1,1	88	0								88		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		97,4	1,8	1,8	15	0								15		
(999) another system		95,8	3,3	3,5	7	0								7		
Other					15	0								15		
							1x 716, 3x 718, 2x 741, 4x 743, 1x 744, 1x 766, 3x 768									
Sample B		97,7	3	3,1	195		CVP	97,7	0,53	10%	87,9	108	195	195	100	
(702) Abbott CELL-DYN Emerald		95,4	1,7	1,8	11	0								11		
(737) Siemens Advia 120, 2120, 2120i		97,7	0,82	0,84	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					
(749) Sysmex XE, XS, XT series		98,1	1,7	1,8	5	0								5		
(755) Sysmex KX series		97,5	1,2	1,2	10	0								10		
(763) Abbott Alinity, CELL-DYN Sapphire		95,7	0,96	1	6	0								6		
(765) Abbott CELL-DYN Ruby		96,3	1,6	1,6	18	0								18		
(771) MINDRAY BC 6xxx series		94,9	1,5	1,6	15	0								15		
(772) Sysmex XN series		100	1,2	1,2	88	0								88		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		95,3	2	2,1	15	0								15		
(999) another system		95,3	3,3	3,5	7	0								7		
Other					15	0								15		
							1x 716, 3x 718, 2x 741, 4x 743, 1x 744, 1x 766, 3x 768									
(155) Platelets	[·10⁹/L]					195								195	186	95
Sample A		219	13	6,1	195		CVP	219	2,3	18%	179	259	195	192	98	
(702) Abbott CELL-DYN Emerald		212	19	9,2	11	0								11		
(737) Siemens Advia 120, 2120, 2120i		176	19	11	5	0								5		
(749) Sysmex XE, XS, XT series		214	3	1,4	5	0								5		
(755) Sysmex KX series		211	6,9	3,3	10	0								10		
(763) Abbott Alinity, CELL-DYN Sapphire		189	11	5,9	6	0								6		
(765) Abbott CELL-DYN Ruby		200	10	5,2	18	0								18		
(771) MINDRAY BC 6xxx series		227	12	5,2	15	0								15		
(772) Sysmex XN series		226	7,2	3,2	88	0								88		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		216	7,2	3,4	15	0								15		
(999) another system		219	12	5,4	7	0								7		
Other					15	0								15		
							1x 716, 3x 718, 2x 741, 4x 743, 1x 744, 1x 766, 3x 768									
Sample B		267	16	6	195		CVP	267	2,8	18%	218	316	195	186	95	
(702) Abbott CELL-DYN Emerald		252	29	11	11	0								11		
(737) Siemens Advia 120, 2120, 2120i		209	27	13	5	0								5		
(749) Sysmex XE, XS, XT series		255	5,9	2,3	5	0								5		
(755) Sysmex KX series		270	10	3,8	10	0								10		
(763) Abbott Alinity, CELL-DYN Sapphire		217	19	8,6	6	0								6		
(765) Abbott CELL-DYN Ruby		252	15	6,1	18	0								18		
(771) MINDRAY BC 6xxx series		281	13	4,6	15	0								15		
(772) Sysmex XN series		271	11	4,2	88	0								88		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		269	9,2	3,4	15	0								15		
(999) another system		262	14	5,4	7	0								7		
Other					15	0								15		
							1x 716, 3x 718, 2x 741, 4x 743, 1x 744, 1x 766, 3x 768									
(156) RDW	[%]					172								162	156	96
Sample A		15,4	0,51	3,3	172									162	157	97
(1) Abbott; (702) Abbott CELL-DYN Emerald		14,3	0,37	2,6	9	0	CVPG	14,8	0,27	10%	13,3	16,3		9		
(1) Abbott; (763) Abbott Alinity, CELL-DYN Sapphire		15,3	0,3	1,9	5	0	CVPG	14,8	0,27	10%	13,3	16,3		5		
(1) Abbott; (765) Abbott CELL-DYN Ruby		15	0,45	3	17	0	CVPG	14,8	0,27	10%	13,3	16,3		17		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		17,3	0,37	2,1	15	0	CVPG	17,2	0,33	10%	15,4	19		15		
(63) Sysmex; (755) Sysmex KX series		14,9	0,37	2,5	6	2	CVPG	15,3	0,055	10%	13,7	16,9		6		
(63) Sysmex; (772) Sysmex XN series		15,3	0,18	1,2	84	0	CVPG	15,3	0,055	10%	13,7	16,9		84		
(177) Mindray; (771) MINDRAY BC 6xxx series		15,8	0,29	1,8	14	0	CVPG	15,8	0,24	10%	14,2	17,4		14		
Other					22	0								12		
							3x 12/718, 4x 63/749, 2x 157/741, 1x 157/743, 1x 157/744, 1x 177/766, 3x 177/768, 1x 177/999, 4x 179/737, 1x 204/999, 1x 999/999									
Sample B		13,9	0,61	4,4	172									162	159	98
(1) Abbott; (702) Abbott CELL-DYN Emerald		13,6	0,37	2,7	9	0	CVPG	13,5	0,31	10%	12,1	14,9		9		
(1) Abbott; (763) Abbott Alinity, CELL-DYN Sapphire		14,4	0,15	1	5	0	CVPG	13,5	0,31	10%	12,1	14,9		5		
(1) Abbott; (765) Abbott CELL-DYN Ruby		13,2	0,41	3,1	17	0	CVPG	13,5	0,31	10%	12,1	14,9		17		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		15,5	0,44	2,8	15	0	CVPG	15,4	0,34	10%	13,8	17		15		
(63) Sysmex; (755) Sysmex KX series		13,3	0,3	2,2	6	2	CVPG	13,8	0,056	10%	12,4	15,2		6		
(63) Sysmex; (772) Sysmex XN series		13,8	0,18	1,3	84	0	CVPG	13,8	0,056	10%	12,4	15,2		84		
(177) Mindray; (771) MINDRAY BC 6xxx series		14,6	0,22	1,5	14	0	CVPG	14,6	0,19	10%	13,1	16,1		14		
Other					22	0								12		
							3x 12/718, 4x 63/749, 2x 157/741, 1x 157/743, 1x 157/744, 1x 177/766, 3x 177/768, 1x 177/999, 4x 179/737, 1x 204/999, 1x 999/999									
(157) MPV	[fL]					173								138	137	99
Sample A		10,6	1,2	11	173									138	137	99
(1) Abbott; (702) Abbott CELL-DYN Emerald		8,75	0,82	9,3	7	0								0		
(1) Abbott; (765) Abbott CELL-DYN Ruby		7,16	0,78	11	18	0								0		

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							AV	U _{AV}	D _{max}	LL	UL				
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		9,83	0,54	5,5	15	0	CVPG	9,74	0,31	18%	7,98	11,5	15		
(63) Sysmex; (755) Sysmex KX series		11,3	0,22	2	7	0	CVPG	11,1	0,096	18%	9,1	13,1	7		
(63) Sysmex; (772) Sysmex XN series		11,1	0,39	3,5	84	0	CVPG	11,1	0,096	18%	9,1	13,1	84		
(177) Mindray; (771) MINDRAY BC 6xxx series		11,8	0,45	3,8	15	0	CVPG	11,6	0,4	18%	9,51	13,7	15		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		11,5	0,52	4,5	5	0	CVPG	11,5	1,5	18%	9,43	13,6	5		
Other					22	0							12		
															4x 1/763, 3x 12/718, 4x 63/749, 2x 157/741, 1x 157/743, 1x 157/744, 1x 177/766, 3x 177/768, 1x 177/999, 1x 204/999, 1x 999/999
Sample B		9	1,1	13	173								138	138	100
(1) Abbott; (702) Abbott CELL-DYN Emerald		7,6	0,74	9,8	7	0							0		
(1) Abbott; (765) Abbott CELL-DYN Ruby		5,74	0,64	11	18	0							0		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		8,14	0,58	7,1	15	0	CVPG	8,06	0,32	18%	6,6	9,52	15		
(63) Sysmex; (755) Sysmex KX series		9,75	0,37	3,8	7	0	CVPG	9,49	0,12	18%	7,78	11,2	7		
(63) Sysmex; (772) Sysmex XN series		9,45	0,46	4,9	84	0	CVPG	9,49	0,12	18%	7,78	11,2	84		
(177) Mindray; (771) MINDRAY BC 6xxx series		9,85	0,61	6,2	15	0	CVPG	9,75	0,41	18%	7,99	11,6	15		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		10,2	0,074	0,73	5	0	CVPG	10,2	0,21	18%	8,36	12,1	5		
Other					22	0							12		
															4x 1/763, 3x 12/718, 4x 63/749, 2x 157/741, 1x 157/743, 1x 157/744, 1x 177/766, 3x 177/768, 1x 177/999, 1x 204/999, 1x 999/999
(158) PDW [%]	[%]				6								0		
Sample A					6	0							0		
Other					6	0							0		2x 157/741, 1x 157/744, 3x 179/737
Sample B					6	0							0		
Other					6	0							0		2x 157/741, 1x 157/744, 3x 179/737
(165) PDW [fL]	[fL]				93								93	85	91
Sample A		13,7	0,93	6,8	93								93	88	95
(63) Sysmex; (755) Sysmex KX series		15,1	1,6	10	7	0	CVPG	13,7	0,24	15%	11,6	15,8	7		
(63) Sysmex; (772) Sysmex XN series		13,6	0,85	6,2	82	0	CVPG	13,7	0,24	15%	11,6	15,8	82		
Other					4	0							4		4x 63/749
Sample B		10,6	0,95	8,9	93								93	87	94
(63) Sysmex; (755) Sysmex KX series		11,9	0,96	8,1	7	0	CVPG	10,6	0,24	15%	9,01	12,2	7		
(63) Sysmex; (772) Sysmex XN series		10,5	0,85	8,1	82	0	CVPG	10,6	0,24	15%	9,01	12,2	82		
Other					4	0							4		4x 63/749
(166) PDW [-]	[-]				16								16	16	100
Sample A		16,2	0,21	1,3	16								16	16	100
(177) Mindray; (771) MINDRAY BC 6xxx series		16,3	0,2	1,2	13	0	CVPG	16,2	0,13	15%	13,7	18,7	13		
Other					3	0							3		1x 177/766, 1x 177/768, 1x 177/999
Sample B		15,8	0,12	0,79	16								16	16	100
(177) Mindray; (771) MINDRAY BC 6xxx series		15,8	0,11	0,69	13	0	CVPG	15,8	0,076	15%	13,4	18,2	13		
Other					3	0							3		1x 177/766, 1x 177/768, 1x 177/999
(160) Neutrophiles	[·10 ⁹ /L]				161								145	141	97
Sample A		2,39	0,16	6,7	161								145	142	98
(702) Abbott CELL-DYN Emerald		2,22	0,13	6	7	0	CVP	2,42	0,024	25%	1,81	3,03	7		
(737) Siemens Advia 120, 2120, 2120i		2,23	0,15	6,7	5	0	CVP	2,42	0,024	25%	1,81	3,03	5		
(763) Abbott Alinity, CELL-DYN Sapphire		2,34	0,096	4,1	6	0	CVP	2,42	0,024	25%	1,81	3,03	6		
(765) Abbott CELL-DYN Ruby		1,65	0,18	11	16	0							0		
(771) MINDRAY BC 6xxx series		2,62	0,07	2,7	12	0	CVP	2,42	0,024	25%	1,81	3,03	12		
(772) Sysmex XN series		2,43	0,062	2,6	82	0	CVP	2,42	0,024	25%	1,81	3,03	82		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,45	0,16	6,4	15	0	CVP	2,42	0,024	25%	1,81	3,03	15		
Other					18	1							18		1x 716, 3x 718, 4x 743, 1x 744, 4x 749, 2x 768, 3x 999
Sample B		3,85	0,2	5,3	161								145	144	99
(702) Abbott CELL-DYN Emerald		3,65	0,22	6,1	7	0	CVP	3,88	0,032	25%	2,91	4,85	7		
(737) Siemens Advia 120, 2120, 2120i		3,63	0,1	2,9	5	0	CVP	3,88	0,032	25%	2,91	4,85	5		
(763) Abbott Alinity, CELL-DYN Sapphire		3,71	0,13	3,6	6	0	CVP	3,88	0,032	25%	2,91	4,85	6		
(765) Abbott CELL-DYN Ruby		3,31	0,13	4,1	16	0							0		
(771) MINDRAY BC 6xxx series		4,06	0,13	3,2	12	0	CVP	3,88	0,032	25%	2,91	4,85	12		
(772) Sysmex XN series		3,9	0,11	2,7	82	0	CVP	3,88	0,032	25%	2,91	4,85	82		

EQA round: KO6/23 - Blood Count

Deadline: 22.9.2023

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		3,96	0,17	4,3	15	0	CVP	3,88	0,032	25%	2,91	4,85	15		
Other					18	0							18		
							1x 716, 3x 718, 4x 743, 1x 744, 4x 749, 2x 768, 3x 999								
(161) Lymphocytes	[·10⁹/L]				162								146	142	97
Sample A		2,58	0,16	6,1	162								146	144	99
(702) Abbott CELL-DYN Emerald		2,65	0,074	2,8	7	0	CVP	2,56	0,026	25%	1,92	3,2	7		
(737) Siemens Advia 120, 2120, 2120i		2,22	0,1	4,7	5	0	CVP	2,56	0,026	25%	1,92	3,2	5		
(749) Sysmex XE, XS, XT series		2,64	0,007	0,28	5	0	CVP	2,56	0,026	25%	1,92	3,2	5		
(763) Abbott Alinity, CELL-DYN Sapphire		2,68	0,13	4,7	6	0	CVP	2,56	0,026	25%	1,92	3,2	6		
(765) Abbott CELL-DYN Ruby		3,26	0,17	5,1	16	0							0		
(771) MINDRAY BC 6xxx series		2,57	0,074	2,9	12	0	CVP	2,56	0,026	25%	1,92	3,2	12		
(772) Sysmex XN series		2,58	0,08	3,1	81	0	CVP	2,56	0,026	25%	1,92	3,2	81		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,28	0,12	5,4	15	0	CVP	2,56	0,026	25%	1,92	3,2	15		
Other					15	1							15		
							1x 716, 3x 718, 4x 743, 1x 744, 1x 755, 2x 768, 3x 999								
Sample B		1,8	0,12	6,4	162								146	144	99
(702) Abbott CELL-DYN Emerald		1,9	0,15	7,8	7	0	CVP	1,78	0,018	25%	1,33	2,23	7		
(737) Siemens Advia 120, 2120, 2120i		1,51	0,037	2,5	5	0	CVP	1,78	0,018	25%	1,33	2,23	5		
(749) Sysmex XE, XS, XT series		1,82	0,037	2	5	0	CVP	1,78	0,018	25%	1,33	2,23	5		
(763) Abbott Alinity, CELL-DYN Sapphire		1,8	0,052	2,9	6	0	CVP	1,78	0,018	25%	1,33	2,23	6		
(765) Abbott CELL-DYN Ruby		2,13	0,15	7	16	0							0		
(771) MINDRAY BC 6xxx series		1,8	0,027	1,5	12	0	CVP	1,78	0,018	25%	1,33	2,23	12		
(772) Sysmex XN series		1,78	0,066	3,7	81	0	CVP	1,78	0,018	25%	1,33	2,23	81		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		1,56	0,11	7	15	0	CVP	1,78	0,018	25%	1,33	2,23	15		
Other					15	0							15		
							1x 716, 3x 718, 4x 743, 1x 744, 1x 755, 2x 768, 3x 999								
(162) Monocytes	[·10⁹/L]				161								161	153	95
Sample A		0,385	0,077	20	161		CVP	0,385	0,015	50%	0,192	0,578	161	155	96
(702) Abbott CELL-DYN Emerald		0,293	0,14	47	7	0							7		
(737) Siemens Advia 120, 2120, 2120i		0,41	0,059	14	5	0							5		
(763) Abbott Alinity, CELL-DYN Sapphire		0,407	0,019	4,7	6	0							6		
(765) Abbott CELL-DYN Ruby		0,345	0,066	19	16	0							16		
(771) MINDRAY BC 6xxx series		0,243	0,084	35	12	0							12		
(772) Sysmex XN series		0,419	0,041	9,8	82	0							82		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,363	0,089	24	15	0							15		
Other					18	1							18		
							1x 716, 3x 718, 4x 743, 1x 744, 4x 749, 2x 768, 3x 999								
Sample B		0,573	0,11	20	161		CVP	0,573	0,022	50%	0,286	0,86	161	156	97
(702) Abbott CELL-DYN Emerald		0,414	0,17	41	7	0							7		
(737) Siemens Advia 120, 2120, 2120i		0,575	0,067	12	5	0							5		
(763) Abbott Alinity, CELL-DYN Sapphire		0,567	0,04	7,1	6	0							6		
(765) Abbott CELL-DYN Ruby		0,534	0,1	19	16	0							16		
(771) MINDRAY BC 6xxx series		0,398	0,091	23	12	0							12		
(772) Sysmex XN series		0,635	0,058	9,2	82	0							82		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,52	0,16	31	15	0							15		
Other					18	0							18		
							1x 716, 3x 718, 4x 743, 1x 744, 4x 749, 2x 768, 3x 999								
(163) Eosinophils	[·10⁹/L]				160								160	154	96
Sample A		0,105	0,013	12	160		CVP	0,105	0,003	50%	0,052	0,158	160	155	97
(702) Abbott CELL-DYN Emerald		0,1	0	0	7	0							7		
(737) Siemens Advia 120, 2120, 2120i		0,08	0,015	19	5	0							5		
(763) Abbott Alinity, CELL-DYN Sapphire		0,097	0,007	6,9	6	0							6		
(765) Abbott CELL-DYN Ruby		0,093	0,018	20	16	0							16		
(771) MINDRAY BC 6xxx series		0,107	0,01	9,3	12	0							12		
(772) Sysmex XN series		0,107	0,012	12	82	0							82		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,101	0,002	2	15	0							15		
Other					17	1							17		
							1x 716, 3x 718, 4x 743, 1x 744, 4x 749, 2x 768, 2x 999								
Sample B		0,343	0,034	9,9	160		CVP	0,343	0,007	50%	0,171	0,515	160	159	99
(702) Abbott CELL-DYN Emerald		0,305	0,007	2,4	7	0							7		
(737) Siemens Advia 120, 2120, 2120i		0,285	0,037	13	5	0							5		
(763) Abbott Alinity, CELL-DYN Sapphire		0,365	0,007	1,8	6	0							6		
(765) Abbott CELL-DYN Ruby		0,341	0,026	7,6	16	0							16		
(771) MINDRAY BC 6xxx series		0,344	0,026	7,5	12	0							12		

EQA round: KO6/23 - Blood Count

Deadline: 22.9.2023

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				
(772) Sysmex XN series		0,341	0,029	8,4	82	0							82		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,367	0,046	12	15	0							15		
Other					17	0							17		
							1x 716, 3x 718, 4x 743, 1x 744, 4x 749, 2x 768, 2x 999								
(164) Basophiles	[·10⁹/L]				160								160	158	99
Sample A		0,041	0,027	65	160		CVP	0,041	0,005	asym.	0	0,165	160	158	99
(702) Abbott CELL-DYN Emerald		0	0		7	0							7		
(737) Siemens Advia 120, 2120, 2120i		0,04	0,015	37	5	0							5		
(763) Abbott Alinity, CELL-DYN Sapphire		0,011	0,005	50	6	0							6		
(765) Abbott CELL-DYN Ruby		0,085	0,02	24	16	0							16		
(771) MINDRAY BC 6xxx series		0,031	0,026	84	12	0							12		
(772) Sysmex XN series		0,044	0,011	25	82	0							82		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,03	0,033	110	15	0							15		
Other					17	1							17		
							1x 716, 3x 718, 4x 743, 1x 744, 4x 749, 2x 768, 2x 999								
Sample B		0,049	0,028	57	160		CVP	0,049	0,006	asym.	0	0,198	160	159	99
(702) Abbott CELL-DYN Emerald		0	0		7	0							7		
(737) Siemens Advia 120, 2120, 2120i		0,035	0,007	21	5	0							5		
(763) Abbott Alinity, CELL-DYN Sapphire		0,031	0,025	80	6	0							6		
(765) Abbott CELL-DYN Ruby		0,127	0,027	21	16	0							16		
(771) MINDRAY BC 6xxx series		0,038	0,031	81	12	0							12		
(772) Sysmex XN series		0,048	0,011	22	82	0							82		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,05	0,041	82	15	0							15		
Other					17	0							17		
							1x 716, 3x 718, 4x 743, 1x 744, 4x 749, 2x 768, 2x 999								