

EQA round: KO1/23 - Blood Count

Deadline: 10.3.2023

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]				207							207	206	100		
Sample A		5,26	0,17	3,2	207		CVP	5,26	0,028	15%	4,47	6,05	207	206	100	
(718) Beckman Coulter AcT series, DxH 500 series		4,75	0,37	7,8	8	0							8			
(737) Siemens Advia 120, 2120, 2120i		5,1	0,24	4,7	13	0							13			
(749) Sysmex XE, XS, XT series		5,24	0,15	2,8	5	0							5			
(755) Sysmex KX series		5,25	0,15	2,9	21	0							21			
(765) Abbott CELL-DYN Ruby		5,14	0,22	4,3	8	0							8			
(771) MINDRAY BC 6xxx series		5,3	0,15	2,8	16	0							16			
(772) Sysmex XN series		5,32	0,11	2,1	105	0							105			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		5,06	0,34	6,8	12	0							12			
Other					19	0							19			
								1x 703, 1x 706, 1x 716, 4x 741, 1x 743, 1x 744, 2x 763, 3x 766, 2x 768, 3x 999								
Sample B		4,91	0,16	3,3	207		CVP	4,91	0,028	15%	4,17	5,65	207	207	100	
(718) Beckman Coulter AcT series, DxH 500 series		4,53	0,19	4,1	8	0							8			
(737) Siemens Advia 120, 2120, 2120i		4,75	0,24	5,1	13	0							13			
(749) Sysmex XE, XS, XT series		4,99	0,31	6,2	5	0							5			
(755) Sysmex KX series		4,92	0,12	2,4	21	0							21			
(765) Abbott CELL-DYN Ruby		4,68	0,26	5,6	8	0							8			
(771) MINDRAY BC 6xxx series		4,98	0,13	2,5	16	0							16			
(772) Sysmex XN series		4,96	0,11	2,3	105	0							105			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,72	0,25	5,3	12	0							12			
Other					19	0							19			
								1x 703, 1x 706, 1x 716, 4x 741, 1x 743, 1x 744, 2x 763, 3x 766, 2x 768, 3x 999								
(151) RBC	[·10 ¹² /L]				207							207	205	99		
Sample A		4,49	0,075	1,7	207		CVP	4,49	0,013	7%	4,17	4,81	207	205	99	
(718) Beckman Coulter AcT series, DxH 500 series		4,44	0,22	4,8	8	0							8			
(737) Siemens Advia 120, 2120, 2120i		4,53	0,079	1,7	13	0							13			
(749) Sysmex XE, XS, XT series		4,55	0,03	0,65	5	0							5			
(755) Sysmex KX series		4,48	0,064	1,4	21	0							21			
(765) Abbott CELL-DYN Ruby		4,57	0,067	1,5	8	0							8			
(771) MINDRAY BC 6xxx series		4,48	0,1	2,3	16	0							16			
(772) Sysmex XN series		4,49	0,054	1,2	105	0							105			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,51	0,097	2,1	12	0							12			
Other					19	0							19			
								1x 703, 1x 706, 1x 716, 4x 741, 1x 743, 1x 744, 2x 763, 3x 766, 2x 768, 3x 999								
Sample B		4,26	0,07	1,6	207		CVP	4,26	0,012	7%	3,96	4,56	207	206	100	
(718) Beckman Coulter AcT series, DxH 500 series		4,19	0,082	1,9	8	0							8			
(737) Siemens Advia 120, 2120, 2120i		4,32	0,08	1,8	13	0							13			
(749) Sysmex XE, XS, XT series		4,31	0,03	0,69	5	0							5			
(755) Sysmex KX series		4,25	0,054	1,3	21	0							21			
(765) Abbott CELL-DYN Ruby		4,36	0,059	1,4	8	0							8			
(771) MINDRAY BC 6xxx series		4,25	0,11	2,5	16	0							16			
(772) Sysmex XN series		4,25	0,051	1,2	105	0							105			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,27	0,075	1,7	12	0							12			
Other					19	0							19			
								1x 703, 1x 706, 1x 716, 4x 741, 1x 743, 1x 744, 2x 763, 3x 766, 2x 768, 3x 999								
(152) Haemoglobin	[g/L]				207							207	207	100		
Sample A		133	1,8	1,4	207		CVP	133	0,31	6%	125	141	207	207	100	
(718) Beckman Coulter AcT series, DxH 500 series		134	2,4	1,8	8	0							8			
(737) Siemens Advia 120, 2120, 2120i		134	2,6	2	13	0							13			
(749) Sysmex XE, XS, XT series		132	0,3	0,22	5	0							5			
(755) Sysmex KX series		132	1,5	1,2	21	0							21			
(765) Abbott CELL-DYN Ruby		137	2,2	1,6	8	0							8			
(771) MINDRAY BC 6xxx series		133	1,5	1,2	16	0							16			
(772) Sysmex XN series		132	1,5	1,1	105	0							105			

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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		132	1,9	1,5	12	0											12	
Other					19	0											19	
							1x 703, 1x 706, 1x 716, 4x 741, 1x 743, 1x 744, 2x 763, 3x 766, 2x 768, 3x 999											
Sample B		125	1,7	1,3	207		CVP	125	0,28	6%	117	133	207	207	100			
(718) Beckman Coulter AcT series, DxH 500 series		126	1,9	1,5	8	0											8	
(737) Siemens Advia 120, 2120, 2120i		127	2	1,5	13	0											13	
(749) Sysmex XE, XS, XT series		127	2,2	1,8	5	0											5	
(755) Sysmex KX series		125	1,5	1,2	21	0											21	
(765) Abbott CELL-DYN Ruby		128	2,9	2,3	8	0											8	
(771) MINDRAY BC 6xxx series		126	1,7	1,3	16	0											16	
(772) Sysmex XN series		125	1,5	1,2	105	0											105	
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		125	1,6	1,3	12	0											12	
Other					19	0											19	
							1x 703, 1x 706, 1x 716, 4x 741, 1x 743, 1x 744, 2x 763, 3x 766, 2x 768, 3x 999											
(153) HCT	[-]				207								207	204	99			
Sample A		0,396	0,009	2,2	207		CVP	0,396	0,002	10%	0,356	0,436	207	204	99			
(718) Beckman Coulter AcT series, DxH 500 series		0,386	0,022	5,6	8	0											8	
(737) Siemens Advia 120, 2120, 2120i		0,399	0,014	3,5	13	0											13	
(749) Sysmex XE, XS, XT series		0,397	0,01	2,6	5	0											5	
(755) Sysmex KX series		0,394	0,007	1,8	21	0											21	
(765) Abbott CELL-DYN Ruby		0,403	0,009	2,2	8	0											8	
(771) MINDRAY BC 6xxx series		0,393	0,01	2,5	16	0											16	
(772) Sysmex XN series		0,397	0,006	1,5	105	1											105	
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,396	0,008	2,1	12	0											12	
Other					19	0											19	
							1x 703, 1x 706, 1x 716, 4x 741, 1x 743, 1x 744, 2x 763, 3x 766, 2x 768, 3x 999											
Sample B		0,379	0,009	2,4	207		CVP	0,379	0,002	10%	0,341	0,417	207	205	99			
(718) Beckman Coulter AcT series, DxH 500 series		0,365	0,007	2	8	0											8	
(737) Siemens Advia 120, 2120, 2120i		0,384	0,015	4	13	0											13	
(749) Sysmex XE, XS, XT series		0,381	0,01	2,7	5	0											5	
(755) Sysmex KX series		0,377	0,008	2,2	21	0											21	
(765) Abbott CELL-DYN Ruby		0,385	0,007	1,7	8	0											8	
(771) MINDRAY BC 6xxx series		0,373	0,011	2,8	16	0											16	
(772) Sysmex XN series		0,381	0,006	1,5	105	1											105	
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,375	0,008	2	12	0											12	
Other					19	0											19	
							1x 703, 1x 706, 1x 716, 4x 741, 1x 743, 1x 744, 2x 763, 3x 766, 2x 768, 3x 999											
(154) MCV	[fL]				207								207	206	100			
Sample A		88,2	1,3	1,4	207		CVP	88,2	0,22	10%	79,3	97,1	207	206	100			
(718) Beckman Coulter AcT series, DxH 500 series		87,1	0,37	0,43	8	0											8	
(737) Siemens Advia 120, 2120, 2120i		88,3	2,3	2,6	13	0											13	
(749) Sysmex XE, XS, XT series		86,8	2,6	3	5	0											5	
(755) Sysmex KX series		88	0,93	1,1	21	0											21	
(765) Abbott CELL-DYN Ruby		88,4	0,59	0,67	8	0											8	
(771) MINDRAY BC 6xxx series		87,8	1,8	2	16	0											16	
(772) Sysmex XN series		88,5	0,99	1,1	105	0											105	
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		87,8	1,5	1,7	12	0											12	
Other					19	0											19	
							1x 703, 1x 706, 1x 716, 4x 741, 1x 743, 1x 744, 2x 763, 3x 766, 2x 768, 3x 999											
Sample B		88,9	1,6	1,8	207		CVP	88,9	0,27	10%	80	97,8	207	206	100			
(718) Beckman Coulter AcT series, DxH 500 series		87,3	1	1,2	8	0											8	
(737) Siemens Advia 120, 2120, 2120i		89	2,2	2,5	13	0											13	
(749) Sysmex XE, XS, XT series		88	2,4	2,8	5	0											5	
(755) Sysmex KX series		88,7	1	1,2	21	0											21	
(765) Abbott CELL-DYN Ruby		88,4	1,9	2,1	8	0											8	
(771) MINDRAY BC 6xxx series		88	1,7	1,9	16	0											16	
(772) Sysmex XN series		89,6	1,1	1,2	105	0											105	
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		87,8	1,7	1,9	12	0											12	

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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					19	0	1x 703, 1x 706, 1x 716, 4x 741, 1x 743, 1x 744, 2x 763, 3x 766, 2x 768, 3x 999					19			
(155) Platelets	[·10⁹/L]				207							207	206	100	
Sample A		197	9,8	5	207		CVP	197	1,7	18%	161	233	207	206	100
(718) Beckman Coulter AcT series, DxH 500 series		197	16	8,3	8	0							8		
(737) Siemens Advia 120, 2120, 2120i		191	12	6,3	13	0							13		
(749) Sysmex XE, XS, XT series		194	6,2	3,2	5	0							5		
(755) Sysmex KX series		190	8,6	4,5	21	0							21		
(765) Abbott CELL-DYN Ruby		184	9,6	5,3	8	0							8		
(771) MINDRAY BC 6xxx series		200	9,6	4,8	16	0							16		
(772) Sysmex XN series		201	6,6	3,3	105	0							105		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		186	9,2	5	12	0							12		
Other					19	0	1x 703, 1x 706, 1x 716, 4x 741, 1x 743, 1x 744, 2x 763, 3x 766, 2x 768, 3x 999					19			
Sample B		198	10	5,2	207		CVP	198	1,8	18%	162	234	207	206	100
(718) Beckman Coulter AcT series, DxH 500 series		193	15	7,7	8	0							8		
(737) Siemens Advia 120, 2120, 2120i		192	13	6,6	13	0							13		
(749) Sysmex XE, XS, XT series		198	6,2	3,1	5	0							5		
(755) Sysmex KX series		193	11	5,6	21	0							21		
(765) Abbott CELL-DYN Ruby		185	12	6,4	8	0							8		
(771) MINDRAY BC 6xxx series		201	14	7	16	0							16		
(772) Sysmex XN series		202	6,6	3,3	105	0							105		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		191	7,9	4,2	12	0							12		
Other					19	0	1x 703, 1x 706, 1x 716, 4x 741, 1x 743, 1x 744, 2x 763, 3x 766, 2x 768, 3x 999					19			
(156) RDW	[%]				186							183	174	95	
Sample A		13,5	0,38	2,8	186							183	174	95	
(1) Abbott; (765) Abbott CELL-DYN Ruby		11,7	0,52	4,5	7	0	CVPG	11,8	0,73	10%	10,6	13	7		
(12) Beckman Coulter; (718) Beckman Coulter AcT series, DxH 500 series		14,1	0,37	2,6	8	0	CVPG	14	0,15	10%	12,6	15,4	8		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		14	0,24	1,7	12	0	CVPG	14	0,15	10%	12,6	15,4	12		
(63) Sysmex; (749) Sysmex XE, XS, XT series		14	0,33	2,3	5	0	CVPG	13,5	0,056	10%	12,1	14,9	5		
(63) Sysmex; (755) Sysmex KX series		13,1	0,44	3,4	10	2	CVPG	13,5	0,056	10%	12,1	14,9	10		
(63) Sysmex; (772) Sysmex XN series		13,5	0,23	1,7	100	1	CVPG	13,5	0,056	10%	12,1	14,9	100		
(177) Mindray; (771) MINDRAY BC 6xxx series		13,8	0,17	1,2	16	0	CVPG	13,8	0,1	10%	12,4	15,2	16		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		13,6	0,27	2	12	0	CVPG	13,6	0,19	10%	12,2	15	12		
Other					16	0	2x 1/763, 1x 46/999, 4x 157/741, 1x 157/743, 1x 157/744, 2x 177/766, 1x 177/768, 2x 177/999, 1x 204/716, 1x 205/706					13			
Sample B		12,9	0,36	2,8	186							183	175	96	
(1) Abbott; (765) Abbott CELL-DYN Ruby		11,3	0,44	3,9	7	0	CVPG	11,5	0,37	10%	10,3	12,7	7		
(12) Beckman Coulter; (718) Beckman Coulter AcT series, DxH 500 series		13,7	0,52	3,8	8	0	CVPG	13,4	0,21	10%	12	14,8	8		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		13,2	0,32	2,4	12	0	CVPG	13,4	0,21	10%	12	14,8	12		
(63) Sysmex; (749) Sysmex XE, XS, XT series		13,2	0,3	2,3	5	0	CVPG	12,8	0,048	10%	11,5	14,1	5		
(63) Sysmex; (755) Sysmex KX series		12,5	0,24	1,9	10	2	CVPG	12,8	0,048	10%	11,5	14,1	10		
(63) Sysmex; (772) Sysmex XN series		12,8	0,19	1,5	100	1	CVPG	12,8	0,048	10%	11,5	14,1	100		
(177) Mindray; (771) MINDRAY BC 6xxx series		13	0,21	1,7	16	0	CVPG	13	0,13	10%	11,7	14,3	16		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		13,3	0,27	2	12	0	CVPG	13,3	0,19	10%	11,9	14,7	12		
Other					16	0	2x 1/763, 1x 46/999, 4x 157/741, 1x 157/743, 1x 157/744, 2x 177/766, 1x 177/768, 2x 177/999, 1x 204/716, 1x 205/706					13			
(157) MPV	[fL]				187							184	182	99	
Sample A		11,6	0,68	5,9	187							184	183	99	
(1) Abbott; (765) Abbott CELL-DYN Ruby		9,31	0,78	8,4	6	0	CVPG	9,31	0,59	18%	7,63	11	6		
(12) Beckman Coulter; (718) Beckman Coulter AcT series, DxH 500 series		10,2	0,7	6,8	8	0	CVPG	10,1	0,24	18%	8,28	12	8		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		10,2	0,42	4,2	12	0	CVPG	10,1	0,24	18%	8,28	12	12		
(63) Sysmex; (749) Sysmex XE, XS, XT series		12,2	0,15	1,2	5	0	CVPG	11,9	0,064	18%	9,75	14,1	5		
(63) Sysmex; (755) Sysmex KX series		11,6	0,38	3,3	13	0	CVPG	11,9	0,064	18%	9,75	14,1	13		

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							AV	U _{AV}	D _{max}	LL	UL				
(63) Sysmex; (772) Sysmex XN series		11,9	0,25	2,1	100	0	CVPG	11,9	0,064	18%	9,75	14,1	100		
(177) Mindray; (771) MINDRAY BC 6xxx series		11,9	0,52	4,4	16	0	CVPG	11,8	0,32	18%	9,67	14	16		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		11,3	0,6	5,3	11	0	CVPG	11,3	0,45	18%	9,26	13,4	11		
Other					16	0							13		
															2x 1/763, 1x 46/999, 4x 157/741, 1x 157/743, 1x 157/744, 2x 177/766, 1x 177/768, 2x 177/999, 1x 204/716, 1x 205/706
Sample B		10,8	0,71	6,6	187								184	182	99
(1) Abbott; (765) Abbott CELL-DYN Ruby		8,18	0,93	11	6	0	CVPG	8,18	0,71	18%	6,7	9,66	6		
(12) Beckman Coulter; (718) Beckman Coulter AcT series, DxH 500 series		9,31	0,44	4,7	8	0	CVPG	9,29	0,2	18%	7,61	11	8		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		9,32	0,37	3,9	12	0	CVPG	9,29	0,2	18%	7,61	11	12		
(63) Sysmex; (749) Sysmex XE, XS, XT series		11,3	0,37	3,3	5	0	CVPG	11,1	0,065	18%	9,1	13,1	5		
(63) Sysmex; (755) Sysmex KX series		10,7	0,4	3,8	13	0	CVPG	11,1	0,065	18%	9,1	13,1	13		
(63) Sysmex; (772) Sysmex XN series		11,1	0,27	2,4	100	0	CVPG	11,1	0,065	18%	9,1	13,1	100		
(177) Mindray; (771) MINDRAY BC 6xxx series		11	0,53	4,8	16	0	CVPG	10,9	0,3	18%	8,93	12,9	16		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		10,3	0,63	6,1	11	0	CVPG	10,3	0,47	18%	8,44	12,2	11		
Other					16	0							13		
															2x 1/763, 1x 46/999, 4x 157/741, 1x 157/743, 1x 157/744, 2x 177/766, 1x 177/768, 2x 177/999, 1x 204/716, 1x 205/706
(158) PDW [%]	[%]				25								18	18	100
Sample A		18,1	1,5	8,5	25								18	18	100
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		17,5	0,22	1,3	8	0	CVPG	17,5	0,15	15%	14,8	20,2	8		
Other					17	0							10		
															4x 12/718, 1x 46/999, 4x 157/741, 1x 157/743, 1x 157/744, 4x 179/737, 1x 204/716, 1x 205/706
Sample B		17,2	1,1	6,4	25								18	18	100
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		16,7	0,074	0,45	8	0	CVPG	16,7	0,12	15%	14,1	19,3	8		
Other					17	0							10		
															4x 12/718, 1x 46/999, 4x 157/741, 1x 157/743, 1x 157/744, 4x 179/737, 1x 204/716, 1x 205/706
(165) PDW [fL]	[fL]				114								114	112	98
Sample A		15,5	0,78	5	114								114	112	98
(63) Sysmex; (749) Sysmex XE, XS, XT series		16,4	0,59	3,6	5	0	CVPG	15,5	0,18	15%	13,1	17,9	5		
(63) Sysmex; (755) Sysmex KX series		15,6	1	6,4	12	0	CVPG	15,5	0,18	15%	13,1	17,9	12		
(63) Sysmex; (772) Sysmex XN series		15,5	0,74	4,8	97	0	CVPG	15,5	0,18	15%	13,1	17,9	97		
Sample B		13,7	0,72	5,2	114								114	113	99
(63) Sysmex; (749) Sysmex XE, XS, XT series		14	0,66	4,7	5	0	CVPG	13,7	0,16	15%	11,6	15,8	5		
(63) Sysmex; (755) Sysmex KX series		13,9	0,87	6,3	12	0	CVPG	13,7	0,16	15%	11,6	15,8	12		
(63) Sysmex; (772) Sysmex XN series		13,6	0,7	5,1	97	0	CVPG	13,7	0,16	15%	11,6	15,8	97		
(166) PDW [-]	[-]				23								23	22	96
Sample A		16,7	0,66	4	23								23	22	96
(1) Abbott; (765) Abbott CELL-DYN Ruby		20,6	0,59	2,9	5	0	CVPG	20,3	1,6	15%	17,2	23,4	5		
(177) Mindray; (771) MINDRAY BC 6xxx series		16,5	0,16	0,99	13	0	CVPG	16,4	0,11	15%	13,9	18,9	13		
Other					5	0							5		
															1x 1/763, 2x 177/766, 1x 177/768, 1x 177/999
Sample B		16,3	0,92	5,7	23								23	22	96
(1) Abbott; (765) Abbott CELL-DYN Ruby		19,3	0,22	1,2	5	0	CVPG	19,2	0,41	15%	16,3	22,1	5		
(177) Mindray; (771) MINDRAY BC 6xxx series		16	0,11	0,68	13	0	CVPG	16	0,1	15%	13,6	18,4	13		
Other					5	0							5		
															1x 1/763, 2x 177/766, 1x 177/768, 1x 177/999
(160) Neutrophiles	[·10 ⁹ /L]				163								163	160	98
Sample A		2,21	0,095	4,3	163		CVP	2,21	0,018	25%	1,65	2,77	163	160	98
(718) Beckman Coulter AcT series, DxH 500 series		2,07	0,25	12	8	0							8		
(737) Siemens Advia 120, 2120, 2120i		2,25	0,14	6,1	13	0							13		
(765) Abbott CELL-DYN Ruby		2,17	0,15	6,8	6	0							6		
(771) MINDRAY BC 6xxx series		2,36	0,11	4,5	13	0							13		
(772) Sysmex XN series		2,19	0,068	3,1	100	0							100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,16	0,15	6,9	12	0							12		
Other					11	0							11		
															1x 703, 1x 744, 4x 749, 2x 763, 1x 768, 2x 999
Sample B		2,35	0,096	4,1	163		CVP	2,35	0,018	25%	1,76	2,94	163	163	100
(718) Beckman Coulter AcT series, DxH 500 series		2,22	0,1	4,6	8	0							8		
(737) Siemens Advia 120, 2120, 2120i		2,33	0,15	6,3	13	0							13		
(765) Abbott CELL-DYN Ruby		2,3	0,036	1,5	6	0							6		

EQA round: KO1/23 - Blood Count

Deadline: 10.3.2023

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				
(771) MINDRAY BC 6xxx series		2,49	0,11	4,4	13	0							13		
(772) Sysmex XN series		2,35	0,069	2,9	100	0							100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,28	0,15	6,4	12	0							12		
Other					11	0							11		
							1x 703, 1x 744, 4x 749, 2x 763, 1x 768, 2x 999								
(161) Lymphocytes	[·10⁹/L]												164	164	100
Sample A		1,61	0,086	5,4	164		CVP	1,61	0,016	25%	1,2	2,02	164	164	100
(718) Beckman Coulter AcT series, DxH 500 series		1,48	0,12	8	8	0							8		
(737) Siemens Advia 120, 2120, 2120i		1,52	0,13	8,5	13	0							13		
(749) Sysmex XE, XS, XT series		1,64	0,022	1,4	5	0							5		
(765) Abbott CELL-DYN Ruby		1,43	0,1	7,1	6	0							6		
(771) MINDRAY BC 6xxx series		1,58	0,043	2,7	13	0							13		
(772) Sysmex XN series		1,64	0,066	4	99	0							99		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		1,56	0,059	3,8	12	0							12		
Other					8	0							8		
							1x 703, 1x 744, 1x 755, 2x 763, 1x 768, 2x 999								
Sample B		2,01	0,096	4,8	164		CVP	2,01	0,018	25%	1,5	2,52	164	164	100
(718) Beckman Coulter AcT series, DxH 500 series		1,85	0,074	4	8	0							8		
(737) Siemens Advia 120, 2120, 2120i		1,89	0,099	5,3	13	0							13		
(749) Sysmex XE, XS, XT series		2,1	0,059	2,8	5	0							5		
(765) Abbott CELL-DYN Ruby		1,75	0,15	8,3	6	0							6		
(771) MINDRAY BC 6xxx series		2,03	0,056	2,8	13	0							13		
(772) Sysmex XN series		2,04	0,059	2,9	99	0							99		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		1,91	0,073	3,8	12	0							12		
Other					8	0							8		
							1x 703, 1x 744, 1x 755, 2x 763, 1x 768, 2x 999								
(162) Monocytes	[·10⁹/L]												163	163	100
Sample A		0,554	0,061	11	163		CVP	0,554	0,012	50%	0,277	0,831	163	163	100
(718) Beckman Coulter AcT series, DxH 500 series		0,45	0,074	16	8	0							8		
(737) Siemens Advia 120, 2120, 2120i		0,398	0,032	8	13	0							13		
(765) Abbott CELL-DYN Ruby		0,571	0,042	7,3	6	0							6		
(771) MINDRAY BC 6xxx series		0,46	0,033	7,2	13	0							13		
(772) Sysmex XN series		0,581	0,034	5,8	100	0							100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,555	0,054	9,7	12	0							12		
Other					11	0							11		
							1x 703, 1x 744, 4x 749, 2x 763, 1x 768, 2x 999								
Sample B		0,367	0,044	12	163		CVP	0,367	0,009	50%	0,183	0,551	163	163	100
(718) Beckman Coulter AcT series, DxH 500 series		0,295	0,037	13	8	0							8		
(737) Siemens Advia 120, 2120, 2120i		0,258	0,024	9,5	13	0							13		
(765) Abbott CELL-DYN Ruby		0,378	0,015	3,9	6	0							6		
(771) MINDRAY BC 6xxx series		0,303	0,032	10	13	0							13		
(772) Sysmex XN series		0,385	0,021	5,4	100	0							100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,359	0,04	11	12	0							12		
Other					11	0							11		
							1x 703, 1x 744, 4x 749, 2x 763, 1x 768, 2x 999								
(163) Eosinophils	[·10⁹/L]												163	162	99
Sample A		0,789	0,042	5,3	163		CVP	0,789	0,008	50%	0,394	1,19	163	163	100
(718) Beckman Coulter AcT series, DxH 500 series		0,79	0,03	3,8	8	0							8		
(737) Siemens Advia 120, 2120, 2120i		0,711	0,041	5,7	13	0							13		
(765) Abbott CELL-DYN Ruby		0,808	0,043	5,3	6	0							6		
(771) MINDRAY BC 6xxx series		0,801	0,031	3,8	13	0							13		
(772) Sysmex XN series		0,795	0,037	4,7	100	0							100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,8	0,033	4,2	12	0							12		
Other					11	0							11		
							1x 703, 1x 744, 4x 749, 2x 763, 1x 768, 2x 999								
Sample B		0,143	0,014	9,9	163		CVP	0,143	0,003	50%	0,071	0,215	163	162	99
(718) Beckman Coulter AcT series, DxH 500 series		0,17	0,03	17	8	0							8		
(737) Siemens Advia 120, 2120, 2120i		0,148	0,022	15	13	0							13		
(765) Abbott CELL-DYN Ruby		0,15	0,005	3,5	6	0							6		
(771) MINDRAY BC 6xxx series		0,145	0,013	8,8	13	0							13		
(772) Sysmex XN series		0,141	0,012	8,7	100	0							100		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,13	0,026	20	12	0							12		

EQA round: KO1/23 - Blood Count

Deadline: 10.3.2023

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				
Other					11	0	1x 703, 1x 744, 4x 749, 2x 763, 1x 768, 2x 999					11			
(164) Basophiles	[·10⁹/L]				163							163	161	99	
Sample A		0,096	0,031	32	163		CVP	0,096	0,006	100%	0	0,192	163	161	99
(718) Beckman Coulter AcT series, DxH 500 series		0,015	0,007	49	8	0						8			
(737) Siemens Advia 120, 2120, 2120i		0,062	0,021	34	13	0						13			
(765) Abbott CELL-DYN Ruby		0,146	0,016	11	6	0						6			
(771) MINDRAY BC 6xxx series		0,094	0,044	47	13	0						13			
(772) Sysmex XN series		0,107	0,019	18	100	0						100			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,056	0,038	68	12	0						12			
Other					11	0	1x 703, 1x 744, 4x 749, 2x 763, 1x 768, 2x 999					11			
Sample B		0,036	0,013	37	163		CVP	0,036	0,003	asym.	0	0,148	163	162	99
(718) Beckman Coulter AcT series, DxH 500 series		0,01	0	0	8	0						8			
(737) Siemens Advia 120, 2120, 2120i		0,033	0,013	40	13	0						13			
(765) Abbott CELL-DYN Ruby		0,099	0,016	16	6	0						6			
(771) MINDRAY BC 6xxx series		0,03	0,011	36	13	0						13			
(772) Sysmex XN series		0,038	0,009	23	100	0						100			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,025	0,027	110	12	0						12			
Other					11	0	1x 703, 1x 744, 4x 749, 2x 763, 1x 768, 2x 999					11			