

## EQA round: KO5/23 - Blood Count

Deadline: 8.9.2023

Setup: groups - measuring system; minimal size of the groups n = 5

RoM = robust average	AV = assigned value	D <sub>max</sub> = 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 <sub>tot</sub> = total number of the results	U <sub>AV</sub> = expanded uncertainty of the assigned value (k = 2)	N <sub>eva</sub> = number of the results assessed
N <sub>out</sub> = number of the results removed before calculation		N <sub>suc</sub> = number of successful results
		S <sub>rel</sub> = relative success

Test Sample Group	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	Comparability					N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]		
							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL					
<b>(150) WBC</b>	[·10 <sup>9</sup> /L]				156							156	156	100		
<b>Sample A</b>		3,29	0,11	3,4	156		CVP	3,29	0,022	18%	2,69	3,89	156	156	100	
(718) Beckman Coulter AcT series, DxH 500 series		3,24	0,059	1,8	7	0							7			
(737) Siemens Advia 120, 2120, 2120i		3,18	0,22	6,8	10	0							10			
(749) Sysmex XE, XS, XT series		3,32	0,089	2,7	7	0							7			
(755) Sysmex KX series		3,38	0,19	5,6	10	0							10			
(765) Abbott CELL-DYN Ruby		3,24	0,18	5,5	7	0							7			
(771) MINDRAY BC 6xxx series		3,29	0,092	2,8	13	0							13			
(772) Sysmex XN series		3,32	0,087	2,6	70	0							70			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,18	0,15	4,6	10	0							10			
(999) another system		3,31	0,11	3,2	10	0							10			
Other					12	0							12			
								1x 706, 2x 716, 4x 741, 2x 743, 2x 763, 1x 768								
<b>Sample B</b>		4,58	0,17	3,6	156		CVP	4,58	0,032	15%	3,89	5,27	156	156	100	
(718) Beckman Coulter AcT series, DxH 500 series		4,35	0,22	5,1	7	0							7			
(737) Siemens Advia 120, 2120, 2120i		4,34	0,34	7,8	10	0							10			
(749) Sysmex XE, XS, XT series		4,67	0,22	4,6	7	0							7			
(755) Sysmex KX series		4,58	0,2	4,3	10	0							10			
(765) Abbott CELL-DYN Ruby		4,51	0,074	1,6	7	0							7			
(771) MINDRAY BC 6xxx series		4,56	0,12	2,5	13	0							13			
(772) Sysmex XN series		4,66	0,12	2,6	70	0							70			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,4	0,15	3,3	10	0							10			
(999) another system		4,64	0,087	1,9	10	0							10			
Other					12	0							12			
								1x 706, 2x 716, 4x 741, 2x 743, 2x 763, 1x 768								
<b>(151) RBC</b>	[·10 <sup>12</sup> /L]				156								156	155	99	
<b>Sample A</b>		4,7	0,071	1,5	156		CVP	4,7	0,014	7%	4,37	5,03	156	155	99	
(718) Beckman Coulter AcT series, DxH 500 series		4,71	0,16	3,3	7	0							7			
(737) Siemens Advia 120, 2120, 2120i		4,68	0,088	1,9	10	0							10			
(749) Sysmex XE, XS, XT series		4,7	0,082	1,7	7	0							7			
(755) Sysmex KX series		4,7	0,096	2	11	0							11			
(765) Abbott CELL-DYN Ruby		4,79	0,11	2,3	7	0							7			
(771) MINDRAY BC 6xxx series		4,67	0,09	1,9	13	0							13			
(772) Sysmex XN series		4,7	0,054	1,2	69	0							69			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,66	0,085	1,8	10	0							10			
(999) another system		4,73	0,047	1	10	0							10			
Other					12	0							12			
								1x 706, 2x 716, 4x 741, 2x 743, 2x 763, 1x 768								
<b>Sample B</b>		3,7	0,063	1,7	156		CVP	3,7	0,012	7%	3,44	3,96	156	156	100	
(718) Beckman Coulter AcT series, DxH 500 series		3,66	0,074	2	7	0							7			
(737) Siemens Advia 120, 2120, 2120i		3,75	0,079	2,1	10	0							10			
(749) Sysmex XE, XS, XT series		3,69	0,089	2,4	7	0							7			
(755) Sysmex KX series		3,73	0,1	2,7	11	0							11			
(765) Abbott CELL-DYN Ruby		3,79	0,13	3,5	7	0							7			
(771) MINDRAY BC 6xxx series		3,69	0,088	2,4	13	0							13			
(772) Sysmex XN series		3,68	0,043	1,2	69	0							69			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,7	0,055	1,5	10	0							10			
(999) another system		3,75	0,056	1,5	10	0							10			
Other					12	0							12			
								1x 706, 2x 716, 4x 741, 2x 743, 2x 763, 1x 768								
<b>(152) Haemoglobin</b>	[g/L]				161								161	161	100	
<b>Sample A</b>		148	2	1,4	161		CVP	148	0,39	6%	139	157	161	161	100	
(718) Beckman Coulter AcT series, DxH 500 series		150	2,9	1,9	7	0							7			
(737) Siemens Advia 120, 2120, 2120i		149	3,4	2,3	10	0							10			
(749) Sysmex XE, XS, XT series		148	3	2	7	0							7			
(755) Sysmex KX series		147	1,5	1,1	10	0							10			
(765) Abbott CELL-DYN Ruby		152	2,2	1,5	7	0							7			
(771) MINDRAY BC 6xxx series		148	2	1,3	13	0							13			
(772) Sysmex XN series		148	1,5	1	70	0							70			

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Test Sample Group	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	Comparability					N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]				
							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL							
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		146	1	0,7	10	0										10		
(999) another system		147	2,5	1,7	15	0										15		
Other					12	0										12		
							1x 706, 2x 716, 4x 741, 2x 743, 2x 763, 1x 768											
<b>Sample B</b>		111	1,8	1,6	161		CVP	111	0,35	6%	104	118	161	161	100			
(718) Beckman Coulter AcT series, DxH 500 series		111	1,3	1,2	7	0										7		
(737) Siemens Advia 120, 2120, 2120i		115	1,2	1	10	0										10		
(749) Sysmex XE, XS, XT series		112	2,2	2	7	0										7		
(755) Sysmex KX series		111	1,6	1,5	10	0										10		
(765) Abbott CELL-DYN Ruby		115	0	0	7	0										7		
(771) MINDRAY BC 6xxx series		112	1,6	1,4	13	0										13		
(772) Sysmex XN series		111	1,2	1	70	0										70		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		112	1,3	1,2	10	0										10		
(999) another system		110	2,2	2	15	0										15		
Other					12	0										12		
							1x 706, 2x 716, 4x 741, 2x 743, 2x 763, 1x 768											
<b>(153) HCT</b>	<b>[-]</b>				156								156	154	99			
<b>Sample A</b>		0,462	0,012	2,6	156		CVP	0,462	0,002	10%	0,415	0,509	156	154	99			
(718) Beckman Coulter AcT series, DxH 500 series		0,453	0,007	1,5	7	0										7		
(737) Siemens Advia 120, 2120, 2120i		0,464	0,015	3,2	10	0										10		
(749) Sysmex XE, XS, XT series		0,462	0,012	2,6	7	0										7		
(755) Sysmex KX series		0,453	0,01	2,3	10	0										10		
(765) Abbott CELL-DYN Ruby		0,471	0,009	1,9	7	0										7		
(771) MINDRAY BC 6xxx series		0,457	0,013	2,8	13	0										13		
(772) Sysmex XN series		0,467	0,008	1,7	70	0										70		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,45	0,012	2,7	10	0										10		
(999) another system		0,454	0,011	2,3	10	0										10		
Other					12	0										12		
							1x 706, 2x 716, 4x 741, 2x 743, 2x 763, 1x 768											
<b>Sample B</b>		0,354	0,01	2,8	156		CVP	0,354	0,002	10%	0,318	0,39	156	154	99			
(718) Beckman Coulter AcT series, DxH 500 series		0,34	0,004	1,3	7	0										7		
(737) Siemens Advia 120, 2120, 2120i		0,361	0,009	2,5	10	0										10		
(749) Sysmex XE, XS, XT series		0,358	0,005	1,5	7	0										7		
(755) Sysmex KX series		0,355	0,009	2,7	10	0										10		
(765) Abbott CELL-DYN Ruby		0,361	0,014	3,9	7	0										7		
(771) MINDRAY BC 6xxx series		0,349	0,012	3,4	13	0										13		
(772) Sysmex XN series		0,358	0,006	1,6	70	0										70		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,343	0,007	2	10	0										10		
(999) another system		0,348	0,011	3,2	10	0										10		
Other					12	0										12		
							1x 706, 2x 716, 4x 741, 2x 743, 2x 763, 1x 768											
<b>(154) MCV</b>	<b>[fL]</b>				156								156	153	98			
<b>Sample A</b>		98,2	2,3	2,4	156		CVP	98,2	0,45	10%	88,3	109	156	155	99			
(718) Beckman Coulter AcT series, DxH 500 series		95,5	2	2,1	7	0										7		
(737) Siemens Advia 120, 2120, 2120i		99,2	2,1	2,1	10	0										10		
(749) Sysmex XE, XS, XT series		99	4,4	4,5	7	0										7		
(755) Sysmex KX series		96,3	1,2	1,2	10	0										10		
(765) Abbott CELL-DYN Ruby		98	1,1	1,1	7	0										7		
(771) MINDRAY BC 6xxx series		97,8	1,9	1,9	13	0										13		
(772) Sysmex XN series		99,5	1,4	1,4	70	0										70		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		96,5	1,4	1,4	10	0										10		
(999) another system		96,2	1,9	1,9	10	0										10		
Other					12	0										12		
							1x 706, 2x 716, 4x 741, 2x 743, 2x 763, 1x 768											
<b>Sample B</b>		95,6	2,6	2,8	156		CVP	95,6	0,52	10%	86	106	156	153	98			
(718) Beckman Coulter AcT series, DxH 500 series		92,1	1,3	1,4	7	0										7		
(737) Siemens Advia 120, 2120, 2120i		96,1	1,7	1,8	10	0										10		
(749) Sysmex XE, XS, XT series		97,4	3,9	4	7	0										7		
(755) Sysmex KX series		94,8	1,1	1,2	10	0										10		
(765) Abbott CELL-DYN Ruby		95,2	1,7	1,8	7	0										7		
(771) MINDRAY BC 6xxx series		94,4	1,6	1,7	13	0										13		
(772) Sysmex XN series		97,3	1,3	1,4	70	0										70		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		92,8	1,2	1,3	10	0										10		
(999) another system		93	1,7	1,8	10	0										10		

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Test Sample Group	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	Comparability					N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]	
							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL				
Other					12	0	1x 706, 2x 716, 4x 741, 2x 743, 2x 763, 1x 768					12			
<b>(155) Platelets</b>	<b>[-10<sup>9</sup>/L]</b>				156							156	153	98	
<b>Sample A</b>		176	9,9	5,6	156		CVP	176	1,9	18%	144	208	156	154	99
(718) Beckman Coulter AcT series, DxH 500 series		178	11	6,3	7	0							7		
(737) Siemens Advia 120, 2120, 2120i		161	11	6,5	10	0							10		
(749) Sysmex XE, XS, XT series		171	9,4	5,5	7	0							7		
(755) Sysmex KX series		170	6,7	3,9	10	0							10		
(765) Abbott CELL-DYN Ruby		174	16	9,4	7	0							7		
(771) MINDRAY BC 6xxx series		172	9,9	5,8	13	0							13		
(772) Sysmex XN series		180	5,6	3,1	70	0							70		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		164	4,7	2,8	10	0							10		
(999) another system		183	5,9	3,2	10	0							10		
Other					12	0	1x 706, 2x 716, 4x 741, 2x 743, 2x 763, 1x 768					12			
<b>Sample B</b>		210	11	5,1	156		CVP	210	2,1	18%	172	248	156	153	98
(718) Beckman Coulter AcT series, DxH 500 series		214	21	10	7	0							7		
(737) Siemens Advia 120, 2120, 2120i		198	9,8	4,9	10	0							10		
(749) Sysmex XE, XS, XT series		214	6,7	3,1	7	0							7		
(755) Sysmex KX series		212	5,4	2,6	10	0							10		
(765) Abbott CELL-DYN Ruby		197	20	10	7	0							7		
(771) MINDRAY BC 6xxx series		213	6,8	3,2	13	0							13		
(772) Sysmex XN series		212	7,5	3,6	70	0							70		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		201	6,4	3,2	10	0							10		
(999) another system		222	13	5,8	10	0							10		
Other					12	0	1x 706, 2x 716, 4x 741, 2x 743, 2x 763, 1x 768					12			
<b>(156) RDW</b>	<b>[%]</b>				143							136	133	98	
<b>Sample A</b>		14,8	0,44	3	143							136	134	99	
(1) Abbott; (765) Abbott CELL-DYN Ruby		13,8	0,52	3,8	6	0	CVPG	14,1	0,73	10%	12,6	15,6	6		
(12) Beckman Coulter; (718) Beckman Coulter AcT series, DxH 500 series		14,8	0,59	4	7	0	CVPG	15,2	0,31	10%	13,6	16,8	7		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		15,5	0,37	2,4	10	0	CVPG	15,2	0,31	10%	13,6	16,8	10		
(63) Sysmex; (749) Sysmex XE, XS, XT series		15,5	0,59	3,8	7	0	CVPG	14,7	0,086	10%	13,2	16,2	7		
(63) Sysmex; (755) Sysmex KX series		14,3	0,22	1,6	6	0	CVPG	14,7	0,086	10%	13,2	16,2	6		
(63) Sysmex; (772) Sysmex XN series		14,7	0,26	1,8	67	1	CVPG	14,7	0,086	10%	13,2	16,2	67		
(177) Mindray; (771) MINDRAY BC 6xxx series		14,8	0,25	1,7	13	0	CVPG	14,8	0,14	10%	13,3	16,3	13		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		14,7	0,55	3,7	10	0	CVPG	14,7	0,43	10%	13,2	16,2	10		
Other					17	0	2x 1/763, 4x 46/999, 1x 63/999, 3x 157/741, 2x 157/743, 2x 177/999, 2x 204/716, 1x 205/706					10			
<b>Sample B</b>		13,4	0,43	3,2	143							136	134	99	
(1) Abbott; (765) Abbott CELL-DYN Ruby		12,6	0,37	3	6	0	CVPG	13	0,73	10%	11,7	14,3	6		
(12) Beckman Coulter; (718) Beckman Coulter AcT series, DxH 500 series		14,1	0,44	3,2	7	0	CVPG	14,1	0,21	10%	12,6	15,6	7		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		14,2	0,35	2,5	10	0	CVPG	14,1	0,21	10%	12,6	15,6	10		
(63) Sysmex; (749) Sysmex XE, XS, XT series		13,8	0,44	3,2	7	0	CVPG	13,4	0,065	10%	12	14,8	7		
(63) Sysmex; (755) Sysmex KX series		12,9	0,074	0,58	6	0	CVPG	13,4	0,065	10%	12	14,8	6		
(63) Sysmex; (772) Sysmex XN series		13,4	0,18	1,3	67	1	CVPG	13,4	0,065	10%	12	14,8	67		
(177) Mindray; (771) MINDRAY BC 6xxx series		13,5	0,3	2,2	13	0	CVPG	13,5	0,17	10%	12,1	14,9	13		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		13,4	0,46	3,4	10	0	CVPG	13,4	0,35	10%	12	14,8	10		
Other					17	0	2x 1/763, 4x 46/999, 1x 63/999, 3x 157/741, 2x 157/743, 2x 177/999, 2x 204/716, 1x 205/706					10			
<b>(157) MPV</b>	<b>[fL]</b>				142							135	132	98	
<b>Sample A</b>		12,1	0,96	7,9	142							135	134	99	
(1) Abbott; (765) Abbott CELL-DYN Ruby		10,4	0,82	7,9	5	0	CVPG	10,4	0,8	18%	8,52	12,3	5		
(12) Beckman Coulter; (718) Beckman Coulter AcT series, DxH 500 series		10,7	0,52	4,9	7	0	CVPG	10,7	0,35	18%	8,77	12,7	7		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		10,8	0,62	5,7	10	0	CVPG	10,7	0,35	18%	8,77	12,7	10		
(63) Sysmex; (749) Sysmex XE, XS, XT series		12,8	0,31	2,4	7	0	CVPG	12,5	0,11	18%	10,2	14,8	7		
(63) Sysmex; (755) Sysmex KX series		12,8	0,31	2,4	8	0	CVPG	12,5	0,11	18%	10,2	14,8	8		
(63) Sysmex; (772) Sysmex XN series		12,4	0,41	3,3	66	0	CVPG	12,5	0,11	18%	10,2	14,8	66		

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							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL				
(177) Mindray; (771) MINDRAY BC 6xxx series		13,3	0,68	5,1	13	0	CVPG	13,1	0,54	18%	10,7	15,5	13		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		12,1	0,3	2,5	9	0	CVPG	12,1	0,37	18%	9,92	14,3	9		
Other					17	0							10		
															2x 1/763, 4x 46/999, 1x 63/999, 3x 157/741, 2x 157/743, 2x 177/999, 2x 204/716, 1x 205/706
<b>Sample B</b>		10,4	0,91	8,7	142								135	133	99
(1) Abbott; (765) Abbott CELL-DYN Ruby		7,73	0,66	8,5	5	0	CVPG	8,28	1,4	18%	6,78	9,78	5		
(12) Beckman Coulter; (718) Beckman Coulter AcT series, DxH 500 series		9	0,22	2,5	7	0	CVPG	9,06	0,3	18%	7,42	10,7	7		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		9,07	0,56	6,1	10	0	CVPG	9,06	0,3	18%	7,42	10,7	10		
(63) Sysmex; (749) Sysmex XE, XS, XT series		11,1	0,57	5,1	7	0	CVPG	10,9	0,1	18%	8,93	12,9	7		
(63) Sysmex; (755) Sysmex KX series		10,7	0,24	2,2	8	0	CVPG	10,9	0,1	18%	8,93	12,9	8		
(63) Sysmex; (772) Sysmex XN series		10,8	0,36	3,3	66	0	CVPG	10,9	0,1	18%	8,93	12,9	66		
(177) Mindray; (771) MINDRAY BC 6xxx series		11,1	0,57	5,2	13	0	CVPG	10,9	0,46	18%	8,93	12,9	13		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		10,6	0,15	1,4	9	0	CVPG	10,6	0,18	18%	8,69	12,6	9		
Other					17	0							10		
															2x 1/763, 4x 46/999, 1x 63/999, 3x 157/741, 2x 157/743, 2x 177/999, 2x 204/716, 1x 205/706
(158) PDW [%]	[%]				15								6	6	100
<b>Sample A</b>		32,8	21	64	15								6	6	100
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		53,5	2,9	5,4	6	0	CVPG	53,5	4	15%	45,4	61,6	6		
Other					9	0							0		
															4x 46/999, 3x 157/741, 1x 157/743, 1x 205/706
<b>Sample B</b>		30	18	58	15								6	6	100
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		47	3,5	7,4	6	0	CVPG	47	4,9	15%	39,9	54,1	6		
Other					9	0							0		
															4x 46/999, 3x 157/741, 1x 157/743, 1x 205/706
(165) PDW [fL]	[fL]				81								79	72	91
<b>Sample A</b>		17,1	1,5	8,8	81								79	74	94
(63) Sysmex; (749) Sysmex XE, XS, XT series		17,8	1,2	6,7	7	0	CVPG	17	0,4	15%	14,4	19,6	7		
(63) Sysmex; (755) Sysmex KX series		18	0,89	4,9	7	0	CVPG	17	0,4	15%	14,4	19,6	7		
(63) Sysmex; (772) Sysmex XN series		16,8	1,4	8,3	64	0	CVPG	17	0,4	15%	14,4	19,6	64		
Other					3	0							1		
															1x 63/999, 2x 204/716
<b>Sample B</b>		13,1	1,1	8,3	81								79	73	92
(63) Sysmex; (749) Sysmex XE, XS, XT series		13,3	1,6	12	7	0	CVPG	13	0,29	15%	11	15	7		
(63) Sysmex; (755) Sysmex KX series		14	0,42	3	7	0	CVPG	13	0,29	15%	11	15	7		
(63) Sysmex; (772) Sysmex XN series		12,8	0,94	7,3	64	0	CVPG	13	0,29	15%	11	15	64		
Other					3	0							1		
															1x 63/999, 2x 204/716
(166) PDW [-]	[-]				14								14	14	100
<b>Sample A</b>		16,3	0,26	1,6	14								14	14	100
(177) Mindray; (771) MINDRAY BC 6xxx series		16,3	0,24	1,5	12	0	CVPG	16,3	0,17	15%	13,8	18,8	12		
Other					2	0							2		
															2x 177/999
<b>Sample B</b>		16,3	0,22	1,3	14								14	14	100
(177) Mindray; (771) MINDRAY BC 6xxx series		16,3	0,17	1	12	0	CVPG	16,3	0,14	15%	13,8	18,8	12		
Other					2	0							2		
															2x 177/999
(160) Neutrophiles	[·10 <sup>9</sup> /L]				121								121	120	99
<b>Sample A</b>		1,37	0,068	4,9	121		CVP	1,37	0,015	25%	1,02	1,72	121	120	99
(718) Beckman Coulter AcT series, DxH 500 series		1,26	0,13	10	7	0							7		
(737) Siemens Advia 120, 2120, 2120i		1,4	0,037	2,7	9	0							9		
(749) Sysmex XE, XS, XT series		1,37	0,052	3,8	6	0							6		
(765) Abbott CELL-DYN Ruby		1,08	0,045	4,1	5	0							5		
(771) MINDRAY BC 6xxx series		1,44	0,071	4,9	11	0							11		
(772) Sysmex XN series		1,37	0,048	3,5	64	0							64		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		1,33	0,1	7,7	10	0							10		
Other					9	0							9		
															1x 716, 1x 743, 2x 763, 1x 768, 4x 999
<b>Sample B</b>		1,67	0,092	5,5	121		CVP	1,67	0,02	25%	1,25	2,09	121	121	100
(718) Beckman Coulter AcT series, DxH 500 series		1,47	0,15	10	7	0							7		
(737) Siemens Advia 120, 2120, 2120i		1,6	0,18	11	9	0							9		
(749) Sysmex XE, XS, XT series		1,69	0,045	2,6	6	0							6		

## EQA round: KO5/23 - Blood Count

Deadline: 8.9.2023

Setup: groups - measuring system; minimal size of the groups n = 5

Test Sample Group	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	Comparability					N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]	
							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL				
(765) Abbott CELL-DYN Ruby		1,44	0,059	4,1	5	0							5		
(771) MINDRAY BC 6xxx series		1,81	0,096	5,3	11	0							11		
(772) Sysmex XN series		1,68	0,058	3,5	64	0							64		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		1,65	0,086	5,2	10	0							10		
Other					9	0							9		
							1x 716, 1x 743, 2x 763, 1x 768, 4x 999								
<b>(161) Lymphocytes</b>	<b>[·10<sup>9</sup>/L]</b>				<b>121</b>							<b>121</b>	<b>120</b>	<b>99</b>	
<b>Sample A</b>		1,41	0,073	5,2	121		CVP	1,41	0,016	25%	1,05	1,77	121	120	99
(718) Beckman Coulter AcT series, DxH 500 series		1,47	0,052	3,5	7	0							7		
(737) Siemens Advia 120, 2120, 2120i		1,29	0,067	5,2	9	0							9		
(749) Sysmex XE, XS, XT series		1,4	0,074	5,3	7	0							7		
(765) Abbott CELL-DYN Ruby		1,63	0,1	6,4	5	0							5		
(771) MINDRAY BC 6xxx series		1,38	0,039	2,8	11	0							11		
(772) Sysmex XN series		1,41	0,056	3,9	63	0							63		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		1,34	0,05	3,7	10	0							10		
Other					9	0							9		
							1x 716, 1x 743, 2x 763, 1x 768, 4x 999								
<b>Sample B</b>		2,4	0,11	4,7	121		CVP	2,4	0,025	25%	1,8	3	121	121	100
(718) Beckman Coulter AcT series, DxH 500 series		2,38	0,11	4,7	7	0							7		
(737) Siemens Advia 120, 2120, 2120i		2,22	0,082	3,7	9	0							9		
(749) Sysmex XE, XS, XT series		2,44	0,15	6,1	7	0							7		
(765) Abbott CELL-DYN Ruby		2,53	0,052	2,1	5	0							5		
(771) MINDRAY BC 6xxx series		2,35	0,066	2,8	11	0							11		
(772) Sysmex XN series		2,43	0,082	3,4	63	0							63		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,25	0,1	4,6	10	0							10		
Other					9	0							9		
							1x 716, 1x 743, 2x 763, 1x 768, 4x 999								
<b>(162) Monocytes</b>	<b>[·10<sup>9</sup>/L]</b>				<b>120</b>							<b>120</b>	<b>119</b>	<b>99</b>	
<b>Sample A</b>		0,298	0,038	13	120		CVP	0,298	0,009	50%	0,149	0,447	120	120	100
(718) Beckman Coulter AcT series, DxH 500 series		0,245	0,037	15	7	0							7		
(737) Siemens Advia 120, 2120, 2120i		0,25	0,03	12	9	0							9		
(749) Sysmex XE, XS, XT series		0,34	0,015	4,4	6	0							6		
(765) Abbott CELL-DYN Ruby		0,294	0,028	9,6	5	0							5		
(771) MINDRAY BC 6xxx series		0,243	0,026	11	11	0							11		
(772) Sysmex XN series		0,317	0,021	6,7	64	0							64		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,293	0,01	3,3	10	0							10		
Other					8	0							8		
							1x 716, 1x 743, 2x 763, 1x 768, 3x 999								
<b>Sample B</b>		0,402	0,061	15	120		CVP	0,402	0,014	50%	0,201	0,603	120	119	99
(718) Beckman Coulter AcT series, DxH 500 series		0,31	0,045	14	7	0							7		
(737) Siemens Advia 120, 2120, 2120i		0,34	0,059	17	9	0							9		
(749) Sysmex XE, XS, XT series		0,455	0,022	4,9	6	0							6		
(765) Abbott CELL-DYN Ruby		0,398	0,018	4,5	5	0							5		
(771) MINDRAY BC 6xxx series		0,333	0,028	8,3	11	0							11		
(772) Sysmex XN series		0,431	0,033	7,6	64	0							64		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,376	0,03	8,1	10	0							10		
Other					8	0							8		
							1x 716, 1x 743, 2x 763, 1x 768, 3x 999								
<b>(163) Eosinophils</b>	<b>[·10<sup>9</sup>/L]</b>				<b>120</b>							<b>120</b>	<b>117</b>	<b>98</b>	
<b>Sample A</b>		0,175	0,021	12	120		CVP	0,175	0,005	50%	0,087	0,263	120	119	99
(718) Beckman Coulter AcT series, DxH 500 series		0,195	0,022	11	7	0							7		
(737) Siemens Advia 120, 2120, 2120i		0,15	0,03	20	9	0							9		
(749) Sysmex XE, XS, XT series		0,17	0,03	17	6	0							6		
(765) Abbott CELL-DYN Ruby		0,189	0,02	11	5	0							5		
(771) MINDRAY BC 6xxx series		0,175	0,018	10	11	0							11		
(772) Sysmex XN series		0,173	0,016	9,5	64	0							64		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,179	0,022	12	10	0							10		
Other					8	0							8		
							1x 716, 1x 743, 2x 763, 1x 768, 3x 999								
<b>Sample B</b>		0,082	0,012	15	120		CVP	0,082	0,003	50%	0,041	0,123	120	118	98
(718) Beckman Coulter AcT series, DxH 500 series		0,09	0,015	16	7	0							7		
(737) Siemens Advia 120, 2120, 2120i		0,08	0,015	19	9	0							9		
(749) Sysmex XE, XS, XT series		0,075	0,007	9,9	6	0							6		
(765) Abbott CELL-DYN Ruby		0,088	0,004	5	5	0							5		

## EQA round: KO5/23 - Blood Count

Deadline: 8.9.2023

Setup: groups - measuring system; minimal size of the groups n = 5

Test Sample Group	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	Comparability					N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]	
							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL				
(771) MINDRAY BC 6xxx series		0,081	0,014	18	11	0						11			
(772) Sysmex XN series		0,08	0,01	13	64	0						64			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,089	0,012	14	10	0						10			
Other					8	0						8			
							1x 716, 1x 743, 2x 763, 1x 768, 3x 999								
<b>(164) Basophiles</b>	<b>[·10<sup>9</sup>/L]</b>				120							120	118	98	
<b>Sample A</b>		0,043	0,016	36	120		CVP	0,043	0,004	asym.	0	0,1	120	118	98
(718) Beckman Coulter AcT series, DxH 500 series		0,015	0,007	49	7	0						7			
(737) Siemens Advia 120, 2120, 2120i		0,045	0,007	16	9	0						9			
(749) Sysmex XE, XS, XT series		0,04	0,015	37	6	0						6			
(765) Abbott CELL-DYN Ruby		0,081	0,022	27	5	0						5			
(771) MINDRAY BC 6xxx series		0,036	0,009	25	11	0						11			
(772) Sysmex XN series		0,048	0,011	22	64	0						64			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,021	0,018	86	10	0						10			
Other					8	0						8			
							1x 716, 1x 743, 2x 763, 1x 768, 3x 999								
<b>Sample B</b>		0,032	0,014	43	120		CVP	0,032	0,003	asym.	0	0,138	120	118	98
(718) Beckman Coulter AcT series, DxH 500 series		0,025	0,007	30	7	0						7			
(737) Siemens Advia 120, 2120, 2120i		0,03	0,015	49	9	0						9			
(749) Sysmex XE, XS, XT series		0,03	0,015	49	6	0						6			
(765) Abbott CELL-DYN Ruby		0,07	0,016	23	5	0						5			
(771) MINDRAY BC 6xxx series		0,026	0,014	52	11	0						11			
(772) Sysmex XN series		0,034	0,009	28	64	0						64			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,02	0,022	110	10	0						10			
Other					8	0						8			
							1x 716, 1x 743, 2x 763, 1x 768, 3x 999								