

## EQA round: KO2/23 - Blood Count

Deadline: 31.3.2023

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]				197							197	194	98		
<b>Sample A</b>		5,61	0,19	3,4	197		CVP	5,61	0,033	15%	4,76	6,46	197	194	98	
(702) Abbott CELL-DYN Emerald		5,45	0,22	4,1	9	0							9			
(749) Sysmex XE, XS, XT series		5,76	0,33	5,8	8	0							8			
(755) Sysmex KX series		5,6	0,16	2,8	11	0							11			
(763) Abbott Alinity, CELL-DYN Sapphire		5,71	0,067	1,2	7	0							7			
(765) Abbott CELL-DYN Ruby		5,31	0,37	7	19	0							19			
(768) MINDRAY BC 5xxx series		5,23	0,29	5,5	5	0							5			
(771) MINDRAY BC 6xxx series		5,6	0,098	1,7	12	0							12			
(772) Sysmex XN series		5,71	0,11	1,9	89	0							89			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		5,41	0,16	2,9	10	0							10			
(999) another system		5,53	0,25	4,6	7	0							7			
Other					20	0							20			
								1x 716, 3x 718, 3x 737, 4x 741, 1x 743, 4x 744, 4x 766								
<b>Sample B</b>		7,22	0,25	3,5	197		CVP	7,22	0,044	15%	6,13	8,31	197	196	99	
(702) Abbott CELL-DYN Emerald		6,95	0,22	3,2	9	0							9			
(749) Sysmex XE, XS, XT series		7,35	0,28	3,8	8	0							8			
(755) Sysmex KX series		7,13	0,16	2,2	11	0							11			
(763) Abbott Alinity, CELL-DYN Sapphire		7,34	0,32	4,3	7	0							7			
(765) Abbott CELL-DYN Ruby		7,09	0,26	3,7	19	0							19			
(768) MINDRAY BC 5xxx series		6,81	0,3	4,4	5	0							5			
(771) MINDRAY BC 6xxx series		7,21	0,15	2	12	0							12			
(772) Sysmex XN series		7,35	0,15	2	89	0							89			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		6,91	0,18	2,6	10	0							10			
(999) another system		7,1	0,3	4,2	7	0							7			
Other					20	0							20			
								1x 716, 3x 718, 3x 737, 4x 741, 1x 743, 4x 744, 4x 766								
<b>(151) RBC</b>	[·10 <sup>12</sup> /L]				197							197	195	99		
<b>Sample A</b>		3,93	0,068	1,7	197		CVP	3,93	0,012	7%	3,65	4,21	197	195	99	
(702) Abbott CELL-DYN Emerald		3,77	0,059	1,6	9	0							9			
(749) Sysmex XE, XS, XT series		3,96	0,059	1,5	8	0							8			
(755) Sysmex KX series		3,93	0,038	0,96	11	0							11			
(763) Abbott Alinity, CELL-DYN Sapphire		3,92	0,059	1,5	7	0							7			
(765) Abbott CELL-DYN Ruby		3,95	0,094	2,4	19	0							19			
(768) MINDRAY BC 5xxx series		3,92	0,059	1,5	5	0							5			
(771) MINDRAY BC 6xxx series		3,92	0,06	1,5	12	0							12			
(772) Sysmex XN series		3,93	0,05	1,3	89	0							89			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,93	0,069	1,7	10	0							10			
(999) another system		3,9	0,15	3,8	7	0							7			
Other					20	0							20			
								1x 716, 3x 718, 3x 737, 4x 741, 1x 743, 4x 744, 4x 766								
<b>Sample B</b>		3,66	0,066	1,8	197		CVP	3,66	0,012	7%	3,4	3,92	197	197	100	
(702) Abbott CELL-DYN Emerald		3,55	0,067	1,9	9	0							9			
(749) Sysmex XE, XS, XT series		3,72	0,089	2,4	8	0							8			
(755) Sysmex KX series		3,68	0,05	1,4	11	0							11			
(763) Abbott Alinity, CELL-DYN Sapphire		3,67	0,052	1,4	7	0							7			
(765) Abbott CELL-DYN Ruby		3,69	0,083	2,3	19	0							19			
(768) MINDRAY BC 5xxx series		3,64	0,13	3,5	5	0							5			
(771) MINDRAY BC 6xxx series		3,66	0,071	1,9	12	0							12			
(772) Sysmex XN series		3,66	0,047	1,3	89	0							89			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,71	0,069	1,9	10	0							10			
(999) another system		3,7	0,15	4	7	0							7			
Other					20	0							20			
								1x 716, 3x 718, 3x 737, 4x 741, 1x 743, 4x 744, 4x 766								
<b>(152) Haemoglobin</b>	[g/L]				197							197	197	100		
<b>Sample A</b>		125	2,1	1,7	197		CVP	125	0,37	6%	117	133	197	197	100	
(702) Abbott CELL-DYN Emerald		127	0,74	0,59	9	0							9			
(749) Sysmex XE, XS, XT series		126	5,2	4,1	8	0							8			
(755) Sysmex KX series		125	1,5	1,2	11	0							11			
(763) Abbott Alinity, CELL-DYN Sapphire		128	2,2	1,7	7	0							7			

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Deadline: 31.3.2023

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		127	1,5	1,2	19	0							19		
(768) MINDRAY BC 5xxx series		126	1,5	1,2	5	0							5		
(771) MINDRAY BC 6xxx series		125	1,9	1,5	12	0							12		
(772) Sysmex XN series		124	1,6	1,3	89	0							89		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		124	1,3	1	10	0							10		
(999) another system		125	1,5	1,2	7	0							7		
Other					20	0							20		
							1x 716, 3x 718, 3x 737, 4x 741, 1x 743, 4x 744, 4x 766								
<b>Sample B</b>		108	1,7	1,6	197		CVP	108	0,3	6%	101	115	197	197	100
(702) Abbott CELL-DYN Emerald		110	0,74	0,68	9	0							9		
(749) Sysmex XE, XS, XT series		107	3	2,8	8	0							8		
(755) Sysmex KX series		108	1,5	1,4	11	0							11		
(763) Abbott Alinity, CELL-DYN Sapphire		109	1,5	1,4	7	0							7		
(765) Abbott CELL-DYN Ruby		109	1	0,95	19	0							19		
(768) MINDRAY BC 5xxx series		110	0,74	0,68	5	0							5		
(771) MINDRAY BC 6xxx series		108	1,7	1,6	12	0							12		
(772) Sysmex XN series		107	1,4	1,3	89	0							89		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		107	1,7	1,6	10	0							10		
(999) another system		108	2	1,9	7	0							7		
Other					20	0							20		
							1x 716, 3x 718, 3x 737, 4x 741, 1x 743, 4x 744, 4x 766								
<b>(153) HCT</b>	<b>[-]</b>				197								197	195	99
<b>Sample A</b>		0,384	0,012	3	197		CVP	0,384	0,002	10%	0,345	0,423	197	196	99
(702) Abbott CELL-DYN Emerald		0,374	0,01	2,6	9	0							9		
(749) Sysmex XE, XS, XT series		0,389	0,016	4,2	8	0							8		
(755) Sysmex KX series		0,383	0,003	0,89	11	0							11		
(763) Abbott Alinity, CELL-DYN Sapphire		0,39	0,005	1,3	7	0							7		
(765) Abbott CELL-DYN Ruby		0,39	0,014	3,6	19	0							19		
(768) MINDRAY BC 5xxx series		0,372	0,017	4,6	5	0							5		
(771) MINDRAY BC 6xxx series		0,378	0,007	1,8	12	0							12		
(772) Sysmex XN series		0,389	0,009	2,3	89	0							89		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,379	0,007	1,8	10	0							10		
(999) another system		0,373	0,01	2,8	7	0							7		
Other					20	0							20		
							1x 716, 3x 718, 3x 737, 4x 741, 1x 743, 4x 744, 4x 766								
<b>Sample B</b>		0,344	0,012	3,5	197		CVP	0,344	0,002	10%	0,309	0,379	197	195	99
(702) Abbott CELL-DYN Emerald		0,324	0,005	1,6	9	0							9		
(749) Sysmex XE, XS, XT series		0,349	0,016	4,7	8	0							8		
(755) Sysmex KX series		0,343	0,005	1,3	11	0							11		
(763) Abbott Alinity, CELL-DYN Sapphire		0,342	0,004	1,3	7	0							7		
(765) Abbott CELL-DYN Ruby		0,346	0,007	2,1	19	0							19		
(768) MINDRAY BC 5xxx series		0,33	0,018	5,4	5	0							5		
(771) MINDRAY BC 6xxx series		0,334	0,007	2	12	0							12		
(772) Sysmex XN series		0,351	0,009	2,5	89	0							89		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,339	0,003	0,8	10	0							10		
(999) another system		0,328	0,012	3,6	7	0							7		
Other					20	0							20		
							1x 716, 3x 718, 3x 737, 4x 741, 1x 743, 4x 744, 4x 766								
<b>(154) MCV</b>	<b>[fL]</b>				197								197	195	99
<b>Sample A</b>		98	2,3	2,3	197		CVP	98	0,39	10%	88,2	108	197	197	100
(702) Abbott CELL-DYN Emerald		99	2,5	2,5	9	0							9		
(749) Sysmex XE, XS, XT series		98,2	2,6	2,7	8	0							8		
(755) Sysmex KX series		97	1,8	1,8	11	0							11		
(763) Abbott Alinity, CELL-DYN Sapphire		98,6	1,5	1,5	7	0							7		
(765) Abbott CELL-DYN Ruby		99,1	2,4	2,4	19	0							19		
(768) MINDRAY BC 5xxx series		96,5	2,1	2,2	5	0							5		
(771) MINDRAY BC 6xxx series		96,4	1	1,1	12	0							12		
(772) Sysmex XN series		98,9	1,6	1,6	89	0							89		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		96,5	0,79	0,82	10	0							10		
(999) another system		95,2	4,2	4,4	7	0							7		
Other					20	0							20		
							1x 716, 3x 718, 3x 737, 4x 741, 1x 743, 4x 744, 4x 766								
<b>Sample B</b>		93,8	3	3,2	197		CVP	93,8	0,53	10%	84,4	104	197	195	99
(702) Abbott CELL-DYN Emerald		91,9	1,3	1,5	9	0							9		
(749) Sysmex XE, XS, XT series		94,4	3,1	3,3	8	0							8		

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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				
(755) Sysmex KX series		93,3	2,7	2,9	11	0							11		
(763) Abbott Alinity, CELL-DYN Sapphire		93,3	0,67	0,72	7	0							7		
(765) Abbott CELL-DYN Ruby		94	1,9	2	19	0							19		
(768) MINDRAY BC 5xxx series		91,2	1,6	1,8	5	0							5		
(771) MINDRAY BC 6xxx series		91,4	1	1,1	12	0							12		
(772) Sysmex XN series		95,8	1,7	1,8	89	0							89		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		91,3	0,66	0,73	10	0							10		
(999) another system		89,5	3,4	3,8	7	0							7		
Other					20	0							20		
							1x 716, 3x 718, 3x 737, 4x 741, 1x 743, 4x 744, 4x 766								
<b>(155) Platelets</b>	<b>[·10<sup>9</sup>/L]</b>				<b>197</b>								<b>197</b>	<b>195</b>	<b>99</b>
<b>Sample A</b>		290	12	4	197		CVP	290	2	18%	237	343	197	196	99
(702) Abbott CELL-DYN Emerald		271	33	12	9	0							9		
(749) Sysmex XE, XS, XT series		298	25	8,5	8	0							8		
(755) Sysmex KX series		295	10	3,5	11	0							11		
(763) Abbott Alinity, CELL-DYN Sapphire		294	9,6	3,3	7	0							7		
(765) Abbott CELL-DYN Ruby		273	16	5,7	19	0							19		
(768) MINDRAY BC 5xxx series		288	16	5,4	5	0							5		
(771) MINDRAY BC 6xxx series		288	13	4,6	12	0							12		
(772) Sysmex XN series		292	6,9	2,4	89	0							89		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		287	11	3,7	10	0							10		
(999) another system		289	9,6	3,3	7	0							7		
Other					20	0							20		
							1x 716, 3x 718, 3x 737, 4x 741, 1x 743, 4x 744, 4x 766								
<b>Sample B</b>		317	17	5,3	197		CVP	317	2,9	18%	259	375	197	196	99
(702) Abbott CELL-DYN Emerald		314	24	7,6	9	0							9		
(749) Sysmex XE, XS, XT series		318	13	4,2	8	0							8		
(755) Sysmex KX series		311	12	3,8	11	0							11		
(763) Abbott Alinity, CELL-DYN Sapphire		306	16	5,3	7	0							7		
(765) Abbott CELL-DYN Ruby		293	19	6,4	19	0							19		
(768) MINDRAY BC 5xxx series		305	15	4,9	5	0							5		
(771) MINDRAY BC 6xxx series		311	17	5,4	12	0							12		
(772) Sysmex XN series		325	9,6	3	89	0							89		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		302	13	4,3	10	0							10		
(999) another system		303	13	4,2	7	0							7		
Other					20	0							20		
							1x 716, 3x 718, 3x 737, 4x 741, 1x 743, 4x 744, 4x 766								
<b>(156) RDW</b>	<b>[%]</b>				<b>174</b>								<b>169</b>	<b>162</b>	<b>96</b>
<b>Sample A</b>		13,3	0,41	3,1	174								169	163	96
(1) Abbott; (702) Abbott CELL-DYN Emerald		14,2	1,3	9,4	6	0	CVPG	13,1	0,4	10%	11,7	14,5	6		
(1) Abbott; (763) Abbott Alinity, CELL-DYN Sapphire		13,8	0,074	0,54	6	0	CVPG	13,1	0,4	10%	11,7	14,5	6		
(1) Abbott; (765) Abbott CELL-DYN Ruby		12,6	0,73	5,8	18	0	CVPG	13,1	0,4	10%	11,7	14,5	18		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		14,4	0,22	1,5	10	0	CVPG	14,2	0,21	10%	12,7	15,7	10		
(63) Sysmex; (749) Sysmex XE, XS, XT series		13,5	0,3	2,2	6	0	CVPG	13,3	0,04	10%	11,9	14,7	6		
(63) Sysmex; (755) Sysmex KX series		13,3	0,62	4,6	9	2	CVPG	13,3	0,04	10%	11,9	14,7	9		
(63) Sysmex; (772) Sysmex XN series		13,3	0,15	1,1	85	0	CVPG	13,3	0,04	10%	11,9	14,7	85		
(177) Mindray; (771) MINDRAY BC 6xxx series		13,4	0,39	2,9	12	0	CVPG	13,4	0,28	10%	12	14,8	12		
Other					22	0							17		
							3x 12/718, 3x 157/741, 1x 157/743, 4x 157/744, 1x 177/766, 4x 177/768, 1x 177/999, 3x 179/737, 1x 204/999, 1x 999/999								
<b>Sample B</b>		15,5	0,48	3,1	174								169	163	96
(1) Abbott; (702) Abbott CELL-DYN Emerald		15,2	1,2	7,8	6	0	CVPG	15	0,37	10%	13,5	16,5	6		
(1) Abbott; (763) Abbott Alinity, CELL-DYN Sapphire		15,7	0,22	1,4	6	0	CVPG	15	0,37	10%	13,5	16,5	6		
(1) Abbott; (765) Abbott CELL-DYN Ruby		14,7	0,75	5,1	18	0	CVPG	15	0,37	10%	13,5	16,5	18		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		17,1	0,31	1,8	10	0	CVPG	16,8	0,42	10%	15,1	18,5	10		
(63) Sysmex; (749) Sysmex XE, XS, XT series		15,9	0,3	1,9	6	0	CVPG	15,6	0,038	10%	14	17,2	6		
(63) Sysmex; (755) Sysmex KX series		14,9	0,96	6,5	9	2	CVPG	15,6	0,038	10%	14	17,2	9		
(63) Sysmex; (772) Sysmex XN series		15,6	0,13	0,84	85	0	CVPG	15,6	0,038	10%	14	17,2	85		
(177) Mindray; (771) MINDRAY BC 6xxx series		15,7	0,46	2,9	12	0	CVPG	15,6	0,33	10%	14	17,2	12		
Other					22	0							17		
							3x 12/718, 3x 157/741, 1x 157/743, 4x 157/744, 1x 177/766, 4x 177/768, 1x 177/999, 3x 179/737, 1x 204/999, 1x 999/999								
<b>(157) MPV</b>	<b>[fL]</b>				<b>172</b>								<b>167</b>	<b>160</b>	<b>96</b>
<b>Sample A</b>		9,5	1	11	172								167	160	96
(1) Abbott; (765) Abbott CELL-DYN Ruby		6,59	0,68	10	19	0	CVPG	7,1	0,53	18%	5,82	8,38	19		

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							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL				
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		8,52	0,29	3,4	10	0	CVPG	8,46	0,2	18%	6,93	9,99	10		
(63) Sysmex; (749) Sysmex XE, XS, XT series		10,4	0,52	5	5	0	CVPG	10,1	0,051	18%	8,28	12	5		
(63) Sysmex; (755) Sysmex KX series		9,85	0,22	2,3	9	0	CVPG	10,1	0,051	18%	8,28	12	9		
(63) Sysmex; (772) Sysmex XN series		10,1	0,18	1,8	86	0	CVPG	10,1	0,051	18%	8,28	12	86		
(177) Mindray; (768) MINDRAY BC 5xxx series		9	0,74	8,2	5	0	CVPG	9,64	0,31	18%	7,9	11,4	5		
(177) Mindray; (771) MINDRAY BC 6xxx series		9,86	0,42	4,3	12	0	CVPG	9,64	0,31	18%	7,9	11,4	12		
Other					26	0	4x 1/702, 4x 1/763, 3x 12/718, 3x 157/741, 1x 157/743, 4x 157/744, 1x 177/766, 1x 177/999, 3x 179/737, 1x 204/999, 1x 999/999					21			
<b>Sample B</b>		11,3	1,2	10	172								167	161	96
(1) Abbott; (765) Abbott CELL-DYN Ruby		8,56	0,84	9,9	19	0	CVPG	9	0,57	18%	7,38	10,7	19		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		10,4	0,26	2,6	10	0	CVPG	10,3	0,19	18%	8,44	12,2	10		
(63) Sysmex; (749) Sysmex XE, XS, XT series		12,1	0,074	0,61	5	0	CVPG	11,9	0,064	18%	9,75	14,1	5		
(63) Sysmex; (755) Sysmex KX series		11,7	0,22	1,9	9	0	CVPG	11,9	0,064	18%	9,75	14,1	9		
(63) Sysmex; (772) Sysmex XN series		11,9	0,25	2,1	86	0	CVPG	11,9	0,064	18%	9,75	14,1	86		
(177) Mindray; (768) MINDRAY BC 5xxx series		10,6	0,59	5,6	5	0	CVPG	11,8	0,46	18%	9,67	14	5		
(177) Mindray; (771) MINDRAY BC 6xxx series		12,2	0,5	4,1	12	0	CVPG	11,8	0,46	18%	9,67	14	12		
Other					26	0	4x 1/702, 4x 1/763, 3x 12/718, 3x 157/741, 1x 157/743, 4x 157/744, 1x 177/766, 1x 177/999, 3x 179/737, 1x 204/999, 1x 999/999					21			
<b>(158) PDW [%]</b>	<b>[%]</b>				18								16	14	88
<b>Sample A</b>		17,4	1,2	7,1	18								16	14	88
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		16,8	0,074	0,44	8	0	CVPG	16,8	0,16	15%	14,2	19,4	8		
Other					10	0	2x 12/718, 3x 157/741, 3x 157/744, 1x 179/737, 1x 204/999					8			
<b>Sample B</b>		16,9	1	6,2	18								16	14	88
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		16,5	0,22	1,4	8	0	CVPG	16,6	0,27	15%	14,1	19,1	8		
Other					10	0	2x 12/718, 3x 157/741, 3x 157/744, 1x 179/737, 1x 204/999					8			
<b>(165) PDW [fL]</b>	<b>[fL]</b>				95								95	91	96
<b>Sample A</b>		11,3	0,57	5,1	95								95	92	97
(63) Sysmex; (749) Sysmex XE, XS, XT series		11,6	0,67	5,8	5	0	CVPG	11,3	0,14	15%	9,6	13	5		
(63) Sysmex; (755) Sysmex KX series		12,5	0,89	7,1	8	0	CVPG	11,3	0,14	15%	9,6	13	8		
(63) Sysmex; (772) Sysmex XN series		11,2	0,5	4,5	82	0	CVPG	11,3	0,14	15%	9,6	13	82		
<b>Sample B</b>		14,8	0,61	4,1	95								95	94	99
(63) Sysmex; (749) Sysmex XE, XS, XT series		14,7	0,22	1,5	5	0	CVPG	14,8	0,15	15%	12,5	17,1	5		
(63) Sysmex; (755) Sysmex KX series		15,4	0,59	3,9	8	0	CVPG	14,8	0,15	15%	12,5	17,1	8		
(63) Sysmex; (772) Sysmex XN series		14,8	0,59	4	82	0	CVPG	14,8	0,15	15%	12,5	17,1	82		
<b>(166) PDW [-]</b>	<b>[-]</b>				32								32	30	94
<b>Sample A</b>		17,4	2,2	13	32								32	30	94
(1) Abbott; (765) Abbott CELL-DYN Ruby		19,3	0,84	4,3	15	0	CVPG	19,1	0,64	15%	16,2	22	15		
(177) Mindray; (771) MINDRAY BC 6xxx series		16	0,13	0,79	11	0	CVPG	16	0,11	15%	13,6	18,4	11		
Other					6	0	1x 1/702, 1x 1/763, 2x 177/766, 1x 177/768, 1x 177/999					6			
<b>Sample B</b>		17,3	2,2	13	32								32	30	94
(1) Abbott; (765) Abbott CELL-DYN Ruby		19,3	0,55	2,8	15	0	CVPG	19,2	0,44	15%	16,3	22,1	15		
(177) Mindray; (771) MINDRAY BC 6xxx series		15,7	0,063	0,4	11	0	CVPG	15,7	0,04	15%	13,3	18,1	11		
Other					6	0	1x 1/702, 1x 1/763, 2x 177/766, 1x 177/768, 1x 177/999					6			
<b>(160) Neutrophiles</b>	<b>[·10<sup>9</sup>/L]</b>				155								138	135	98
<b>Sample A</b>		2,56	0,11	4,1	155								138	135	98
(702) Abbott CELL-DYN Emerald		2,4	0,15	6,2	7	0	CVP	2,57	0,02	25%	1,92	3,22	7		
(749) Sysmex XE, XS, XT series		2,51	0,17	6,8	6	0	CVP	2,57	0,02	25%	1,92	3,22	6		
(763) Abbott Alinity, CELL-DYN Sapphire		2,58	0,045	1,7	7	0	CVP	2,57	0,02	25%	1,92	3,22	7		
(765) Abbott CELL-DYN Ruby		2,28	0,44	19	17	1							0		
(771) MINDRAY BC 6xxx series		2,67	0,082	3,1	10	0	CVP	2,57	0,02	25%	1,92	3,22	10		
(772) Sysmex XN series		2,59	0,068	2,6	83	0	CVP	2,57	0,02	25%	1,92	3,22	83		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,5	0,079	3,2	10	0	CVP	2,57	0,02	25%	1,92	3,22	10		
Other					15	1	1x 716, 3x 718, 2x 737, 1x 743, 3x 744, 1x 755, 2x 768, 2x 999					15			
<b>Sample B</b>		3,22	0,12	3,7	155								138	137	99
(702) Abbott CELL-DYN Emerald		3	0,15	4,9	7	0	CVP	3,23	0,023	25%	2,42	4,04	7		
(749) Sysmex XE, XS, XT series		3,25	0,089	2,7	6	0	CVP	3,23	0,023	25%	2,42	4,04	6		
(763) Abbott Alinity, CELL-DYN Sapphire		3,25	0,13	3,9	7	0	CVP	3,23	0,023	25%	2,42	4,04	7		
(765) Abbott CELL-DYN Ruby		3,08	0,2	6,5	17	0							0		

## EQA round: K02/23 - Blood Count

Deadline: 31.3.2023

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		3,32	0,089	2,7	10	0	CVP	3,23	0,023	25%	2,42	4,04	10		
(772) Sysmex XN series		3,24	0,083	2,6	83	0	CVP	3,23	0,023	25%	2,42	4,04	83		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,12	0,12	3,7	10	0	CVP	3,23	0,023	25%	2,42	4,04	10		
Other					15	1							15		
															1x 716, 3x 718, 2x 737, 1x 743, 3x 744, 1x 755, 2x 768, 2x 999
<b>(161) Lymphocytes</b>	<b>[·10<sup>9</sup>/L]</b>				<b>156</b>								<b>156</b>	<b>155</b>	<b>99</b>
<b>Sample A</b>		2,2	0,091	4,1	156		CVP	2,2	0,018	25%	1,65	2,75	156	155	99
(702) Abbott CELL-DYN Emerald		2,29	0,15	6,6	7	0							7		
(749) Sysmex XE, XS, XT series		2,25	0,13	5,9	6	0							6		
(763) Abbott Alinity, CELL-DYN Sapphire		2,26	0,037	1,6	7	0							7		
(765) Abbott CELL-DYN Ruby		2,12	0,16	7,7	17	0							17		
(771) MINDRAY BC 6xxx series		2,18	0,044	2	10	0							10		
(772) Sysmex XN series		2,21	0,053	2,4	83	0							83		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,08	0,093	4,5	10	0							10		
Other					16	0							16		
															1x 716, 3x 718, 2x 737, 1x 743, 3x 744, 1x 755, 3x 768, 2x 999
<b>Sample B</b>		3,49	0,16	4,5	156		CVP	3,49	0,031	25%	2,61	4,37	156	156	100
(702) Abbott CELL-DYN Emerald		3,55	0,22	6,3	7	0							7		
(749) Sysmex XE, XS, XT series		3,6	0,22	6	6	0							6		
(763) Abbott Alinity, CELL-DYN Sapphire		3,61	0,22	6,2	7	0							7		
(765) Abbott CELL-DYN Ruby		3,36	0,14	4,3	17	0							17		
(771) MINDRAY BC 6xxx series		3,48	0,11	3,1	10	0							10		
(772) Sysmex XN series		3,56	0,078	2,2	83	0							83		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,24	0,15	4,6	10	0							10		
Other					16	0							16		
															1x 716, 3x 718, 2x 737, 1x 743, 3x 744, 1x 755, 3x 768, 2x 999
<b>(162) Monocytes</b>	<b>[·10<sup>9</sup>/L]</b>				<b>154</b>								<b>154</b>	<b>154</b>	<b>100</b>
<b>Sample A</b>		0,584	0,055	9,3	154		CVP	0,584	0,011	50%	0,292	0,876	154	154	100
(702) Abbott CELL-DYN Emerald		0,564	0,094	17	8	0							8		
(749) Sysmex XE, XS, XT series		0,63	0,03	4,7	6	0							6		
(763) Abbott Alinity, CELL-DYN Sapphire		0,592	0,045	7,6	7	0							7		
(765) Abbott CELL-DYN Ruby		0,565	0,052	9,2	16	0							16		
(771) MINDRAY BC 6xxx series		0,468	0,031	6,6	10	0							10		
(772) Sysmex XN series		0,601	0,038	6,4	83	0							83		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,563	0,052	9,2	10	0							10		
Other					14	0							14		
															1x 716, 3x 718, 2x 737, 1x 743, 3x 744, 2x 768, 2x 999
<b>Sample B</b>		0,401	0,036	8,9	154		CVP	0,401	0,007	50%	0,2	0,602	154	154	100
(702) Abbott CELL-DYN Emerald		0,41	0,014	3,4	8	0							8		
(749) Sysmex XE, XS, XT series		0,43	0,045	10	6	0							6		
(763) Abbott Alinity, CELL-DYN Sapphire		0,392	0,006	1,5	7	0							7		
(765) Abbott CELL-DYN Ruby		0,395	0,046	12	16	0							16		
(771) MINDRAY BC 6xxx series		0,305	0,015	4,8	10	0							10		
(772) Sysmex XN series		0,41	0,027	6,5	83	0							83		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,399	0,002	0,53	10	0							10		
Other					14	0							14		
															1x 716, 3x 718, 2x 737, 1x 743, 3x 744, 2x 768, 2x 999
<b>(163) Eosinophils</b>	<b>[·10<sup>9</sup>/L]</b>				<b>153</b>								<b>153</b>	<b>150</b>	<b>98</b>
<b>Sample A</b>		0,23	0,026	11	153		CVP	0,23	0,005	50%	0,115	0,345	153	152	99
(702) Abbott CELL-DYN Emerald		0,214	0,021	9,7	7	0							7		
(749) Sysmex XE, XS, XT series		0,245	0,037	15	6	0							6		
(763) Abbott Alinity, CELL-DYN Sapphire		0,234	0,032	14	7	0							7		
(765) Abbott CELL-DYN Ruby		0,228	0,033	14	17	0							17		
(771) MINDRAY BC 6xxx series		0,238	0,02	8,5	10	0							10		
(772) Sysmex XN series		0,231	0,019	8,2	83	0							83		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,202	0,009	4,5	10	0							10		
Other					13	0							13		
															1x 716, 3x 718, 2x 737, 1x 743, 3x 744, 2x 768, 1x 999
<b>Sample B</b>		0,109	0,015	13	153		CVP	0,109	0,003	50%	0,054	0,164	153	150	98
(702) Abbott CELL-DYN Emerald		0,084	0,024	28	7	0							7		
(749) Sysmex XE, XS, XT series		0,115	0,007	6,4	6	0							6		
(763) Abbott Alinity, CELL-DYN Sapphire		0,102	0,027	26	7	0							7		
(765) Abbott CELL-DYN Ruby		0,101	0,016	15	17	0							17		
(771) MINDRAY BC 6xxx series		0,111	0,018	16	10	0							10		

## EQA round: K02/23 - Blood Count

Deadline: 31.3.2023

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				
(772) Sysmex XN series		0,112	0,013	11	83	0							83		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,1	0,001	0,7	10	0							10		
Other					13	0							13		
							1x 716, 3x 718, 2x 737, 1x 743, 3x 744, 2x 768, 1x 999								
<b>(164) Basophiles</b>	<b>[·10<sup>9</sup>/L]</b>				154								154	153	99
<b>Sample A</b>		0,072	0,033	45	154		CVP	0,072	0,006	asym.	0	0,169	154	153	99
(702) Abbott CELL-DYN Emerald		0	0		7	0							7		
(749) Sysmex XE, XS, XT series		0,065	0,022	34	6	0							6		
(763) Abbott Alinity, CELL-DYN Sapphire		0,036	0,021	58	7	0							7		
(765) Abbott CELL-DYN Ruby		0,134	0,017	12	17	0							17		
(771) MINDRAY BC 6xxx series		0,064	0,031	48	10	0							10		
(772) Sysmex XN series		0,074	0,012	16	83	0							83		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,052	0,055	110	10	0							10		
Other					14	0							14		
							1x 716, 3x 718, 2x 737, 1x 743, 3x 744, 3x 768, 1x 999								
<b>Sample B</b>		0,037	0,02	54	154		CVP	0,037	0,004	asym.	0	0,217	154	154	100
(702) Abbott CELL-DYN Emerald		0	0		7	0							7		
(749) Sysmex XE, XS, XT series		0,025	0,007	30	6	0							6		
(763) Abbott Alinity, CELL-DYN Sapphire		0,025	0,007	30	7	0							7		
(765) Abbott CELL-DYN Ruby		0,145	0,027	18	17	0							17		
(771) MINDRAY BC 6xxx series		0,023	0,018	78	10	0							10		
(772) Sysmex XN series		0,036	0,009	24	83	0							83		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,067	0,05	74	10	0							10		
Other					14	0							14		
							1x 716, 3x 718, 2x 737, 1x 743, 3x 744, 3x 768, 1x 999								