

## Summary statistics - quantitative results

(Groups: system)

Filter: minimal size of the groups n = 5

## EQA round: KO3/21 - Blood Count

Deadline: 21.05.2021

RoM = robust average	AV = assigned value	Dmax = acceptable percent difference
SD = standard deviation	CRV = certified reference value	LL = lower limit
CV = coefficient of variation	RV = reference value	UL = upper limit
Ntot = total number of the participants	CVE = consensus value from experts	Neva = number of evaluated participants
Nout = number of results excluded before calculation	CVP = consensus value from all participants	Nsuc = number of successful participants
	CVPG = consensus value from participants groups	Srel = success (relative)
	U <sub>AV</sub> = expanded uncertainty of the assigned value (k = 2)	

Test	[unit]	Comparability												
		RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>
<b>(150) WBC</b>	r.10(exp9)/L]				174						174	171	98%	
----- Samples and groups														
<b>Sample A</b>		4,10	0,16	3,9	174	CVP	4,10	0,030	15%	3,48	4,72	174	171	98%
(702) Abbott CELL-DYN Emerald		4,15	0,37	8,9	7	0						7		
(703) Siemens Advia 560		4,22	0,096	2,3	5	0						5		
(737) Siemens Advia 120, 2120, 2120i		4,00	0,15	3,9	16	0						16		
(743) Nihon Kohden Celltac E, F		4,25	0,074	1,7	5	0						5		
(749) Sysmex XE, XS, XT series		4,07	0,045	1,1	9	0						9		
(755) Sysmex KX series		4,11	0,16	3,8	10	0						10		
(765) Abbott CELL-DYN Ruby		3,89	0,29	7,4	15	0						15		
(766) MINDRAY BC 2xxx, 3xxx series		3,95	0,074	1,9	9	0						9		
(768) MINDRAY BC 5xxx series		4,08	0,21	5,1	6	0						6		
(771) MINDRAY BC 6xxx series		4,15	0,13	3,2	14	0						14		
(772) Sysmex XN series		4,16	0,11	2,6	62	0						62		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,10	0,15	3,6	6	0						6		
Other					10	0						10		
-----							1x 706, 4x 716, 3x 741, 1x 744, 1x 999							
<b>Sample B</b>		2,69	0,11	4,1	174	CVP	2,69	0,021	18%	2,2	3,18	174	173	99%
(702) Abbott CELL-DYN Emerald		2,65	0,22	8,4	7	0						7		
(703) Siemens Advia 560		2,75	0,14	5,1	5	0						5		
(737) Siemens Advia 120, 2120, 2120i		2,59	0,12	4,6	16	0						16		
(743) Nihon Kohden Celltac E, F		2,75	0,074	2,7	5	0						5		
(749) Sysmex XE, XS, XT series		2,68	0,022	0,83	9	0						9		
(755) Sysmex KX series		2,75	0,15	5,4	10	0						10		
(765) Abbott CELL-DYN Ruby		2,63	0,19	7,3	15	0						15		
(766) MINDRAY BC 2xxx, 3xxx series		2,60	0,00	0,00	9	0						9		
(768) MINDRAY BC 5xxx series		2,70	0,067	2,5	6	0						6		
(771) MINDRAY BC 6xxx series		2,74	0,086	3,1	14	0						14		
(772) Sysmex XN series		2,73	0,077	2,8	62	0						62		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,70	0,15	5,5	6	0						6		
Other					10	0						10		
-----							1x 706, 4x 716, 3x 741, 1x 744, 1x 999							
<b>(151) RBC</b>	r.10(exp12)/L]				174						174	173	99%	
----- Samples and groups														
<b>Sample A</b>		4,52	0,077	1,7	174	CVP	4,52	0,014	7%	4,2	4,84	174	174	100%
(702) Abbott CELL-DYN Emerald		4,41	0,082	1,9	7	0						7		
(703) Siemens Advia 560		4,62	0,022	0,48	5	0						5		
(737) Siemens Advia 120, 2120, 2120i		4,54	0,08	1,8	16	0						16		
(743) Nihon Kohden Celltac E, F		4,62	0,045	0,96	5	0						5		
(749) Sysmex XE, XS, XT series		4,55	0,030	0,65	9	0						9		
(755) Sysmex KX series		4,51	0,069	1,5	10	0						10		
(765) Abbott CELL-DYN Ruby		4,61	0,088	1,9	15	0						15		
(766) MINDRAY BC 2xxx, 3xxx series		4,53	0,052	1,1	9	0						9		
(768) MINDRAY BC 5xxx series		4,51	0,14	3,0	6	0						6		
(771) MINDRAY BC 6xxx series		4,51	0,078	1,7	14	0						14		
(772) Sysmex XN series		4,50	0,061	1,4	62	0						62		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,50	0,045	0,99	6	0						6		
Other					10	0						10		
-----							1x 706, 4x 716, 3x 741, 1x 744, 1x 999							
<b>Sample B</b>		4,02	0,074	1,8	174	CVP	4,02	0,014	7%	3,73	4,31	174	173	99%
(702) Abbott CELL-DYN Emerald		3,90	0,045	1,1	7	0						7		
(703) Siemens Advia 560		4,09	0,10	2,5	5	0						5		
(737) Siemens Advia 120, 2120, 2120i		4,06	0,10	2,5	16	0						16		
(743) Nihon Kohden Celltac E, F		4,06	0,082	2,0	5	0						5		
(749) Sysmex XE, XS, XT series		4,05	0,067	1,6	9	0						9		
(755) Sysmex KX series		4,02	0,062	1,5	10	0						10		
(765) Abbott CELL-DYN Ruby		4,07	0,086	2,1	15	0						15		
(766) MINDRAY BC 2xxx, 3xxx series		4,04	0,059	1,5	9	0						9		
(768) MINDRAY BC 5xxx series		4,00	0,059	1,5	6	0						6		
(771) MINDRAY BC 6xxx series		4,00	0,079	2,0	14	0						14		
(772) Sysmex XN series		4,00	0,053	1,3	62	0						62		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,01	0,052	1,3	6	0						6		
Other					10	0						10		
-----							1x 706, 4x 716, 3x 741, 1x 744, 1x 999							

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(Groups: system)

Filter: minimal size of the groups n = 5

## EQA round: KO3/21 - Blood Count

Deadline: 21.05.2021

Test	[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>(152) Haemoglobin</b>	[g/L]				179								179	179	100%
Samples and groups															
<b>Sample A</b>		142	2,2	1,5	179		CVP	142	0,40	6%	133	151	179	179	100%
(702) Abbott CELL-DYN Emerald		142	3,0	2,1	7	0							7		
(703) Siemens Advia 560		144	0,74	0,52	5	0							5		
(737) Siemens Advia 120, 2120, 2120i		143	2,9	2,0	16	0							16		
(743) Nihon Kohden Celltac E, F		141	2,2	1,6	5	0							5		
(749) Sysmex XE, XS, XT series		142	1,10	0,78	9	0							9		
(755) Sysmex KX series		141	2,1	1,5	10	0							10		
(765) Abbott CELL-DYN Ruby		144	2,0	1,4	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		142	1,5	1,0	9	0							9		
(768) MINDRAY BC 5xxx series		141	2,2	1,6	6	0							6		
(771) MINDRAY BC 6xxx series		142	1,9	1,4	14	0							14		
(772) Sysmex XN series		141	1,5	1,1	62	0							62		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		142	1,5	1,0	6	0							6		
(999) another system		147	1,5	1,0	6	0							6		
Other					9	0							9		
							1x 706, 4x 716, 3x 741, 1x 744								
<b>Sample B</b>		119	2,0	1,7	179		CVP	119	0,37	6%	111	127	179	179	100%
(702) Abbott CELL-DYN Emerald		120	2,2	1,9	7	0							7		
(703) Siemens Advia 560		122	0,74	0,61	5	0							5		
(737) Siemens Advia 120, 2120, 2120i		121	3,2	2,6	16	0							16		
(743) Nihon Kohden Celltac E, F		117	3,7	3,2	5	0							5		
(749) Sysmex XE, XS, XT series		119	1,5	1,2	9	0							9		
(755) Sysmex KX series		120	1,2	1,0	10	0							10		
(765) Abbott CELL-DYN Ruby		121	1,8	1,5	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		121	0,74	0,62	9	0							9		
(768) MINDRAY BC 5xxx series		119	3,0	2,5	6	0							6		
(771) MINDRAY BC 6xxx series		120	1,8	1,5	14	0							14		
(772) Sysmex XN series		118	1,2	1,0	62	0							62		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		121	0,74	0,62	6	0							6		
(999) another system		124	2,2	1,8	6	0							6		
Other					9	0							9		
							1x 706, 4x 716, 3x 741, 1x 744								
<b>(153) HCT</b>	[-]				174								174	173	99%
Samples and groups															
<b>Sample A</b>		0,427	0,009	2,2	174		CVP	0,427	,0018	10%	0,384	0,47	174	173	99%
(702) Abbott CELL-DYN Emerald		0,419	0,025	6,0	7	0							7		
(703) Siemens Advia 560		0,420	0,015	3,5	5	0							5		
(737) Siemens Advia 120, 2120, 2120i		0,435	0,012	2,7	16	0							16		
(743) Nihon Kohden Celltac E, F		0,423	0,004	1,0	5	0							5		
(749) Sysmex XE, XS, XT series		0,425	0,006	1,6	9	0							9		
(755) Sysmex KX series		0,416	0,003	0,84	10	0							10		
(765) Abbott CELL-DYN Ruby		0,437	0,012	2,7	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		0,426	0,007	1,7	9	0							9		
(768) MINDRAY BC 5xxx series		0,437	0,027	6,1	6	0							6		
(771) MINDRAY BC 6xxx series		0,424	0,006	1,5	14	0							14		
(772) Sysmex XN series		0,428	0,007	1,7	62	0							62		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,425	0,005	1,2	6	0							6		
Other					10	1							10		
							1x 706, 4x 716, 3x 741, 1x 744, 1x 999								
<b>Sample B</b>		0,371	0,011	2,8	174		CVP	0,371	,0020	10%	0,333	0,409	174	173	99%
(702) Abbott CELL-DYN Emerald		0,354	0,014	4,0	7	0							7		
(703) Siemens Advia 560		0,359	0,002	0,61	5	0							5		
(737) Siemens Advia 120, 2120, 2120i		0,380	0,008	2,2	16	0							16		
(743) Nihon Kohden Celltac E, F		0,354	0,005	1,7	5	0							5		
(749) Sysmex XE, XS, XT series		0,372	0,01	2,8	9	0							9		
(755) Sysmex KX series		0,367	0,007	2,0	10	0							10		
(765) Abbott CELL-DYN Ruby		0,380	0,011	2,9	15	0							15		
(766) MINDRAY BC 2xxx, 3xxx series		0,367	0,005	1,4	9	0							9		
(768) MINDRAY BC 5xxx series		0,383	0,019	4,8	6	0							6		
(771) MINDRAY BC 6xxx series		0,364	0,005	1,6	14	0							14		
(772) Sysmex XN series		0,374	0,006	1,7	62	0							62		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,370	0,002	0,60	6	0							6		
Other					10	1							10		
							1x 706, 4x 716, 3x 741, 1x 744, 1x 999								
<b>(154) MCV</b>	[fL]				174								174	173	99%
Samples and groups															
<b>Sample A</b>		94,5	2,0	2,1	174		CVP	94,5	0,37	10%	85	104	174	173	99%
(702) Abbott CELL-DYN Emerald		96,5	3,8	3,9	7	0							7		
(703) Siemens Advia 560		93,0	0,37	0,40	5	0							5		

## Summary statistics - quantitative results

(Groups: system)

Filter: minimal size of the groups n = 5

## EQA round: KO3/21 - Blood Count

Deadline: 21.05.2021

Test	[unit]						Comparability							
		RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>
<b>(154) MCV</b>					174							174	173	99%
Samples and groups [fL]														
<b>Sample A</b>		94,5	2,0	2,1	174	CVP	94,5	0,37	10%	85	104	174	173	99%
(737) Siemens Advia 120, 2120, 2120i		95,5	1,6	1,7	16	0						16		
(743) Nihon Kohden Celltac E, F		92,0	0,59	0,64	5	0						5		
(749) Sysmex XE, XS, XT series		92,4	1,3	1,4	9	0						9		
(755) Sysmex KX series		92,3	0,72	0,78	10	0						10		
(765) Abbott CELL-DYN Ruby		94,7	1,6	1,7	15	0						15		
(766) MINDRAY BC 2xxx, 3xxx series		93,7	2,4	2,6	9	0						9		
(768) MINDRAY BC 5xxx series		97,7	1,9	1,9	6	0						6		
(771) MINDRAY BC 6xxx series		94,2	1,3	1,4	14	0						14		
(772) Sysmex XN series		95,2	1,3	1,4	62	0						62		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		94,6	1,0	1,1	6	0						6		
Other					10	0						10		
1x 706, 4x 716, 3x 741, 1x 744, 1x 999														
<b>Sample B</b>		92,4	2,3	2,5	174	CVP	92,4	0,43	10%	83,1	102	174	173	99%
(702) Abbott CELL-DYN Emerald		91,3	1,9	2,0	7	0						7		
(703) Siemens Advia 560		89,0	0,44	0,50	5	0						5		
(737) Siemens Advia 120, 2120, 2120i		93,6	1,4	1,5	16	0						16		
(743) Nihon Kohden Celltac E, F		87,8	1,2	1,4	5	0						5		
(749) Sysmex XE, XS, XT series		91,4	1,6	1,8	9	0						9		
(755) Sysmex KX series		91,0	0,98	1,1	10	0						10		
(765) Abbott CELL-DYN Ruby		93,1	1,5	1,6	15	0						15		
(766) MINDRAY BC 2xxx, 3xxx series		91,0	2,9	3,2	9	0						9		
(768) MINDRAY BC 5xxx series		95,2	1,8	1,9	6	0						6		
(771) MINDRAY BC 6xxx series		91,0	1,1	1,2	14	0						14		
(772) Sysmex XN series		93,7	1,2	1,3	62	0						62		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		91,3	1,0	1,1	6	0						6		
Other					10	0						10		
1x 706, 4x 716, 3x 741, 1x 744, 1x 999														
<b>(155) Platelets</b>					174							174	173	99%
Samples and groups f.10(exp9)/L														
<b>Sample A</b>		293	12	4,2	174	CVP	293	2,3	20%	234	352	174	174	100%
(702) Abbott CELL-DYN Emerald		300	29	9,7	7	0						7		
(703) Siemens Advia 560		293	8,2	2,8	5	0						5		
(737) Siemens Advia 120, 2120, 2120i		283	12	4,3	16	0						16		
(743) Nihon Kohden Celltac E, F		282	7,4	2,6	5	0						5		
(749) Sysmex XE, XS, XT series		295	12	4,0	9	0						9		
(755) Sysmex KX series		293	6,1	2,1	10	0						10		
(765) Abbott CELL-DYN Ruby		274	17	6,2	15	0						15		
(766) MINDRAY BC 2xxx, 3xxx series		289	13	4,4	9	0						9		
(768) MINDRAY BC 5xxx series		278	21	7,5	6	0						6		
(771) MINDRAY BC 6xxx series		300	7,1	2,4	14	0						14		
(772) Sysmex XN series		300	7,7	2,6	62	0						62		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		287	8,2	2,8	6	0						6		
Other					10	0						10		
1x 706, 4x 716, 3x 741, 1x 744, 1x 999														
<b>Sample B</b>		260	12	4,8	174	CVP	260	2,3	20%	208	312	174	173	99%
(702) Abbott CELL-DYN Emerald		268	16	5,8	7	0						7		
(703) Siemens Advia 560		262	9,6	3,7	5	0						5		
(737) Siemens Advia 120, 2120, 2120i		253	21	8,3	16	0						16		
(743) Nihon Kohden Celltac E, F		254	1,50	0,58	5	0						5		
(749) Sysmex XE, XS, XT series		265	10	3,9	9	0						9		
(755) Sysmex KX series		262	8,3	3,2	10	0						10		
(765) Abbott CELL-DYN Ruby		240	14	5,6	15	0						15		
(766) MINDRAY BC 2xxx, 3xxx series		259	7,4	2,9	9	0						9		
(768) MINDRAY BC 5xxx series		241	13	5,5	6	0						6		
(771) MINDRAY BC 6xxx series		269	10	3,7	14	0						14		
(772) Sysmex XN series		263	7,4	2,8	62	0						62		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		256	3,0	1,2	6	0						6		
Other					10	0						10		
1x 706, 4x 716, 3x 741, 1x 744, 1x 999														
<b>(156) RDW</b>					155							150	143	95%
Samples and groups [%]														
<b>Sample A</b>		12,7	0,55	4,3	155							150	144	96%
(1) Abbott; (765) Abbott CELL-DYN Ruby		11,5	0,36	3,1	15	0	CVPG	11,8	0,41	10%	10,6	13	15	
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		13,3	0,22	1,7	6	0	CVPG	13,3	0,31	10%	11,9	14,7	6	
(63) Sysmex; (749) Sysmex XE, XS, XT series		12,9	0,59	4,6	7	0	CVPG	12,6	0,075	10%	11,3	13,9	7	

## Summary statistics - quantitative results

(Groups: system)

Filter: minimal size of the groups n = 5

## EQA round: KO3/21 - Blood Count

Deadline: 21.05.2021

Test	[unit]						Comparability							N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>	
		RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL						
<b>(156) RDW</b>					155									150	143	95%	
Samples and groups	[%]																
<b>Sample A</b>		12,7	0,55	4,3	155									150	144	96%	
(63) Sysmex; (755) Sysmex KX series		12,8	0,22	1,7	7	1	CVPG	12,6	0,075	10%	11,3	13,9		7			
(63) Sysmex; (772) Sysmex XN series		12,6	0,22	1,7	60	0	CVPG	12,6	0,075	10%	11,3	13,9		60			
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		13,6	0,15	1,1	8	0	CVPG	13,1	0,23	10%	11,7	14,5		8			
(177) Mindray; (771) MINDRAY BC 6xxx series		12,9	0,24	1,9	13	0	CVPG	13,1	0,23	10%	11,7	14,5		13			
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		12,7	0,45	3,6	15	0	CVPG	12,8	0,29	10%	11,5	14,1		15			
Other					24	0								19			
								4x 1/702, 3x 157/741, 3x 157/743, 1x 157/744, 4x 177/768, 4x 179/703, 3x 204/716, 1x 205/706, 1x 999/999									
<b>Sample B</b>		13,7	0,50	3,7	155									150	144	96%	
(1) Abbott; (765) Abbott CELL-DYN Ruby		12,9	0,29	2,2	15	0	CVPG	13	0,25	10%	11,7	14,3		15			
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		14,5	0,30	2,0	6	0	CVPG	14,5	0,41	10%	13	16		6			
(63) Sysmex; (749) Sysmex XE, XS, XT series		14,0	0,52	3,7	7	0	CVPG	13,7	0,057	10%	12,3	15,1		7			
(63) Sysmex; (755) Sysmex KX series		13,6	0,15	1,1	7	1	CVPG	13,7	0,057	10%	12,3	15,1		7			
(63) Sysmex; (772) Sysmex XN series		13,7	0,17	1,2	60	0	CVPG	13,7	0,057	10%	12,3	15,1		60			
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		14,6	0,52	3,6	8	0	CVPG	14	0,24	10%	12,6	15,4		8			
(177) Mindray; (771) MINDRAY BC 6xxx series		13,8	0,28	2,0	13	0	CVPG	14	0,24	10%	12,6	15,4		13			
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		13,6	0,40	2,9	15	0	CVPG	13,8	0,32	10%	12,4	15,2		15			
Other					24	0								19			
								4x 1/702, 3x 157/741, 3x 157/743, 1x 157/744, 4x 177/768, 4x 179/703, 3x 204/716, 1x 205/706, 1x 999/999									
<b>(157) MPV</b>					149									138	135	98%	
Samples and groups	[fL]																
<b>Sample A</b>		9,34	0,95	10	149									138	135	98%	
(1) Abbott; (765) Abbott CELL-DYN Ruby		5,49	0,65	12	12	0	CVPG	5,49	0,46	18%	4,5	6,48		12			
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		8,25	0,22	2,7	6	0	CVPG	8,25	0,31	18%	6,76	9,74		6			
(63) Sysmex; (749) Sysmex XE, XS, XT series		10,1	0,52	5,2	7	0	CVPG	9,91	0,066	18%	8,12	11,7		7			
(63) Sysmex; (755) Sysmex KX series		9,75	0,074	0,76	7	0	CVPG	9,91	0,066	18%	8,12	11,7		7			
(63) Sysmex; (772) Sysmex XN series		9,92	0,21	2,2	60	0	CVPG	9,91	0,066	18%	8,12	11,7		60			
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		9,30	0,15	1,6	7	0	CVPG	9,27	0,26	18%	7,6	11		7			
(177) Mindray; (768) MINDRAY BC 5xxx series		8,45	0,074	0,88	5	0	CVPG	9,27	0,26	18%	7,6	11		5			
(177) Mindray; (771) MINDRAY BC 6xxx series		9,52	0,33	3,5	14	0	CVPG	9,27	0,26	18%	7,6	11		14			
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		9,50	0,70	7,4	14	0	CVPG	9,5	0,46	18%	7,79	11,3		14			
Other					17	0								6			
								3x 702, 3x 703, 2x 157/741, 3x 157/743, 1x 157/744, 3x 204/716, 1x 205/706, 1x 999/999									
<b>Sample B</b>		9,17	1,0	11	149									138	136	99%	
(1) Abbott; (765) Abbott CELL-DYN Ruby		5,12	0,53	10	12	0	CVPG	5,12	0,38	18%	4,19	6,05		12			
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		8,10	0,30	3,7	6	0	CVPG	8,1	0,41	18%	6,64	9,56		6			
(63) Sysmex; (749) Sysmex XE, XS, XT series		9,90	0,74	7,5	7	0	CVPG	9,7	0,083	18%	7,95	11,5		7			
(63) Sysmex; (755) Sysmex KX series		9,45	0,37	3,9	7	0	CVPG	9,7	0,083	18%	7,95	11,5		7			
(63) Sysmex; (772) Sysmex XN series		9,72	0,27	2,8	60	0	CVPG	9,7	0,083	18%	7,95	11,5		60			
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		9,05	0,52	5,7	7	0	CVPG	8,96	0,25	18%	7,34	10,6		7			
(177) Mindray; (768) MINDRAY BC 5xxx series		8,21	0,28	3,4	5	0	CVPG	8,96	0,25	18%	7,34	10,6		5			
(177) Mindray; (771) MINDRAY BC 6xxx series		9,15	0,32	3,5	14	0	CVPG	8,96	0,25	18%	7,34	10,6		14			
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		9,95	0,69	6,9	14	0	CVPG	9,95	0,45	18%	8,15	11,8		14			
Other					17	0								6			
								3x 702, 3x 703, 2x 157/741, 3x 157/743, 1x 157/744, 3x 204/716, 1x 205/706, 1x 999/999									
<b>(158) PDW [%]</b>					29									25	22	88%	
Samples and groups	[%]																
<b>Sample A</b>		26,3	14	53	29									25	23	92%	
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		16,2	0,22	1,4	6	0	CVPG	16,2	0,31	15%	13,7	18,7		6			
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		40,2	3,2	8,0	11	0	CVPG	39,2	2,4	15%	33,3	45,1		11			
Other					12	0								8			
								2x 157/741, 2x 157/743, 1x 157/744, 3x 179/703, 2x 204/716, 1x 205/706, 1x 999/999									
<b>Sample B</b>		28,0	15	55	29									25	24	96%	

## Summary statistics - quantitative results

(Groups: system)

Filter: minimal size of the groups n = 5

## EQA round: KO3/21 - Blood Count

Deadline: 21.05.2021

Test	[unit]						Comparability							
		RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>
<b>(158) PDW [%]</b>					29							25	22	88%
Samples and groups	[%]													
<b>Sample B</b>		28,0	15	55	29							25	24	96%
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		16,3	0,22	1,4	6	0	CVPG	16,3	0,31	15%	13,8	18,8	6	
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		42,4	4,3	10	11	0	CVPG	41,4	2,9	15%	35,1	47,7	11	
Other					12	0							8	
														2x 157/741, 2x 157/743, 1x 157/744, 3x 179/703, 2x 204/716, 1x 205/706, 1x 999/999
<b>(165) PDW [fL]</b>					74							73	71	97%
Samples and groups	[fL]													
<b>Sample A</b>		11,3	0,47	4,2	74							73	73	100%
(63) Sysmex; (749) Sysmex XE, XS, XT series		11,5	0,44	3,9	7	0	CVPG	11,3	0,13	15%	9,6	13	7	
(63) Sysmex; (755) Sysmex KX series		11,7	0,74	6,3	7	0	CVPG	11,3	0,13	15%	9,6	13	7	
(63) Sysmex; (772) Sysmex XN series		11,2	0,40	3,5	59	0	CVPG	11,3	0,13	15%	9,6	13	59	
Other					1	0							0	
														1x 204/716
<b>Sample B</b>		10,5	0,61	5,8	74							73	71	97%
(63) Sysmex; (749) Sysmex XE, XS, XT series		11,0	1,2	11	7	0	CVPG	10,5	0,17	15%	8,92	12,1	7	
(63) Sysmex; (755) Sysmex KX series		11,5	0,37	3,2	7	0	CVPG	10,5	0,17	15%	8,92	12,1	7	
(63) Sysmex; (772) Sysmex XN series		10,4	0,46	4,5	59	0	CVPG	10,5	0,17	15%	8,92	12,1	59	
Other					1	0							0	
														1x 204/716
<b>(166) PDW [-]</b>					32							32	31	97%
Samples and groups	[-]													
<b>Sample A</b>		16,2	1,3	8,0	32							32	31	97%
(1) Abbott; (765) Abbott CELL-DYN Ruby		18,2	0,22	1,2	9	0	CVPG	18	0,81	15%	15,3	20,7	9	
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		15,3	0,150	97	6	0	CVPG	15,6	0,12	15%	13,2	18	6	
(177) Mindray; (771) MINDRAY BC 6xxx series		15,7	0,16	1,0	12	0	CVPG	15,6	0,12	15%	13,2	18	12	
Other					5	0							5	
														1x 1/702, 4x 177/768
<b>Sample B</b>		16,3	1,4	8,9	32							32	31	97%
(1) Abbott; (765) Abbott CELL-DYN Ruby		18,4	0,37	2,0	9	0	CVPG	18,3	0,40	15%	15,5	21,1	9	
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		15,4	0,0740	48	6	0	CVPG	15,6	0,11	15%	13,2	18	6	
(177) Mindray; (771) MINDRAY BC 6xxx series		15,7	0,120	76	12	0	CVPG	15,6	0,11	15%	13,2	18	12	
Other					5	0							5	
														1x 1/702, 4x 177/768
<b>(160) Neutrophils</b>					134							134	127	95%
Samples and groups	f.10(exp9)/L													
<b>Sample A</b>		2,03	0,15	7,5	134							134	128	96%
(1) Abbott; (765) Abbott CELL-DYN Ruby		1,44	0,15	11	14	0	CVPG	1,49	0,11	20%	1,19	1,79	14	
(737) Siemens Advia 120, 2120, 2120i		2,06	0,12	5,7	15	0	CVP	2,07	0,024	25%	1,55	2,59	15	
(749) Sysmex XE, XS, XT series		1,98	0,045	2,2	9	0	CVP	2,07	0,024	25%	1,55	2,59	9	
(771) MINDRAY BC 6xxx series		2,20	0,07	3,2	14	0	CVP	2,07	0,024	25%	1,55	2,59	14	
(772) Sysmex XN series		2,06	0,077	3,7	60	0	CVP	2,07	0,024	25%	1,55	2,59	60	
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,10	0,11	5,3	5	0	CVP	2,07	0,024	25%	1,55	2,59	5	
Other					17	0							17	
														3x 1/702, 4x 703, 1x 716, 2x 743, 1x 744, 2x 755, 3x 768, 1x 999
<b>Sample B</b>		1,51	0,087	5,8	134							134	131	98%
(737) Siemens Advia 120, 2120, 2120i		1,48	0,069	4,7	15	0							15	
(749) Sysmex XE, XS, XT series		1,48	0,022	1,5	9	0							9	
(765) Abbott CELL-DYN Ruby		1,38	0,12	8,6	14	0							14	
(771) MINDRAY BC 6xxx series		1,60	0,06	3,7	14	0							14	
(772) Sysmex XN series		1,53	0,06	3,9	60	0							60	
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		1,54	0,089	5,8	5	0							5	
Other					17	0							17	
														3x 702, 4x 703, 1x 716, 2x 743, 1x 744, 2x 755, 3x 768, 1x 999
<b>(161) Lymphocytes</b>					134							134	130	97%
Samples and groups	f.10(exp9)/L													
<b>Sample A</b>		1,53	0,12	7,8	134							134	131	98%
(1) Abbott; (765) Abbott CELL-DYN Ruby		1,88	0,17	8,8	14	0	CVPG	1,84	0,098	20%	1,47	2,21	14	
(737) Siemens Advia 120, 2120, 2120i		1,38	0,038	2,8	15	0	CVP	1,5	0,020	25%	1,12	1,88	15	
(749) Sysmex XE, XS, XT series		1,53	0,043	2,8	10	0	CVP	1,5	0,020	25%	1,12	1,88	10	
(771) MINDRAY BC 6xxx series		1,49	0,05	3,3	14	0	CVP	1,5	0,020	25%	1,12	1,88	14	
(772) Sysmex XN series		1,50	0,063	4,2	59	0	CVP	1,5	0,020	25%	1,12	1,88	59	

## Summary statistics - quantitative results

(Groups: system)

Filter: minimal size of the groups n = 5

## EQA round: KO3/21 - Blood Count

Deadline: 21.05.2021

Test	[unit]						Comparability								
		RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>	
<b>(161) Lymphocytes</b>	f.10(exp9)/L]				134							134	130	97%	
Samples and groups															
<b>Sample A</b>		1,53	0,12	7,8	134							134	131	98%	
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		1,45	0,067	4,6	5	0	CVP	1,5	0,020	25%	1,12	1,88	5		
Other					17	0							17		
							3x 1/702, 4x 703, 1x 716, 2x 743, 1x 744, 2x 755, 3x 768, 1x 999								
<b>Sample B</b>		0,921	0,057	6,2	134		CVP	0,921	0,012	25%	0,69	1,16	134	130	97%
(737) Siemens Advia 120, 2120, 2120i		0,864	0,034	3,9	15	1							15		
(749) Sysmex XE, XS, XT series		0,927	0,031	3,3	10	0							10		
(765) Abbott CELL-DYN Ruby		0,998	0,077	7,7	14	0							14		
(771) MINDRAY BC 6xxx series		0,923	0,037	4,0	14	0							14		
(772) Sysmex XN series		0,911	0,038	4,1	59	0							59		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,820	0,03	3,6	5	0							5		
Other					17	0							17		
							3x 702, 4x 703, 1x 716, 2x 743, 1x 744, 2x 755, 3x 768, 1x 999								
<b>(162) Monocytes</b>	f.10(exp9)/L]				132							132	131	99%	
Samples and groups															
<b>Sample A</b>		0,453	0,081	18	132		CVP	0,453	0,017	50%	0,226	0,68	132	131	99%
(737) Siemens Advia 120, 2120, 2120i		0,354	0,032	9,1	15	0							15		
(749) Sysmex XE, XS, XT series		0,485	0,037	7,6	9	0							9		
(765) Abbott CELL-DYN Ruby		0,448	0,048	11	14	0							14		
(771) MINDRAY BC 6xxx series		0,374	0,022	5,8	14	0							14		
(772) Sysmex XN series		0,504	0,028	5,6	60	0							60		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,460	0,059	13	5	0							5		
Other					15	0							15		
							3x 702, 4x 703, 1x 716, 2x 743, 1x 744, 3x 768, 1x 999								
<b>Sample B</b>		0,195	0,041	21	132		CVP	0,195	,0087	50%	0,097	0,293	132	131	99%
(737) Siemens Advia 120, 2120, 2120i		0,155	0,018	11	15	0							15		
(749) Sysmex XE, XS, XT series		0,205	0,007	3,6	9	0							9		
(765) Abbott CELL-DYN Ruby		0,170	0,018	11	14	0							14		
(771) MINDRAY BC 6xxx series		0,159	0,009	6,0	14	0							14		
(772) Sysmex XN series		0,222	0,023	10	60	0							60		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,190	0,015	7,8	5	0							5		
Other					15	0							15		
							3x 702, 4x 703, 1x 716, 2x 743, 1x 744, 3x 768, 1x 999								
<b>(163) Eosinophils</b>	f.10(exp9)/L]				130							130	128	98%	
Samples and groups															
<b>Sample A</b>		0,048	0,015	30	130		CVP	0,048	,0031	asym.	0	0,123	130	128	98%
(737) Siemens Advia 120, 2120, 2120i		0,060	0,013	21	15	0							15		
(749) Sysmex XE, XS, XT series		0,055	0,007	13	9	0							9		
(765) Abbott CELL-DYN Ruby		0,039	0,006	16	14	0							14		
(771) MINDRAY BC 6xxx series		0,050	0,01	20	14	0							14		
(772) Sysmex XN series		0,047	0,011	24	59	0							59		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,027	0,04	150	5	0							5		
Other					14	0							14		
							3x 702, 4x 703, 1x 716, 2x 743, 1x 744, 3x 768								
<b>Sample B</b>		0,038	0,009	25	130		CVP	0,038	,0020	asym.	0	0,1	130	130	100%
(737) Siemens Advia 120, 2120, 2120i		0,037	0,009	26	15	0							15		
(749) Sysmex XE, XS, XT series		0,040	0,000	0,00	9	0							9		
(765) Abbott CELL-DYN Ruby		0,040	0,008	20	14	0							14		
(771) MINDRAY BC 6xxx series		0,037	0,006	18	14	0							14		
(772) Sysmex XN series		0,038	0,008	22	59	0							59		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,020	0,03	150	5	0							5		
Other					14	0							14		
							3x 702, 4x 703, 1x 716, 2x 743, 1x 744, 3x 768								
<b>(164) Basophiles</b>	f.10(exp9)/L]				130							130	130	100%	
Samples and groups															
<b>Sample A</b>		0,042	0,023	54	130		CVP	0,042	,0049	asym.	0	0,123	130	130	100%
(737) Siemens Advia 120, 2120, 2120i		0,045	0,014	31	15	0							15		
(749) Sysmex XE, XS, XT series		0,025	0,007	30	9	0							9		
(765) Abbott CELL-DYN Ruby		0,074	0,018	24	14	0							14		
(771) MINDRAY BC 6xxx series		0,026	0,008	33	14	0							14		
(772) Sysmex XN series		0,042	0,017	41	59	0							59		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,020	0,029	150	5	0							5		
Other					14	0							14		
							3x 702, 4x 703, 1x 716, 2x 743, 1x 744, 3x 768								
<b>Sample B</b>		0,022	0,012	54	130		CVP	0,022	,0025	asym.	0	0,1	130	130	100%
(737) Siemens Advia 120, 2120, 2120i		0,021	0,008	40	15	0							15		
(749) Sysmex XE, XS, XT series		0,015	0,007	49	9	0							9		

## Summary statistics - quantitative results

(Groups: system)

Filter: minimal size of the groups n = 5

## EQA round: KO3/21 - Blood Count

Deadline: 21.05.2021

Test	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	Comparability								
							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>	
<b>(164) Basophiles</b>	f.10(exp9)/L]				130							130	130	100%	
Samples and groups															
<b>Sample B</b>		0,022	0,012	54	130		CVP	0,022	,0025	asym.	0	0,1	130	130	100%
(765) Abbott CELL-DYN Ruby		0,040	0,013	32	14	0							14		
(771) MINDRAY BC 6xxx series		0,012	0,007	62	14	0							14		
(772) Sysmex XN series		0,022	0,006	28	59	0							59		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,010	0,015	150	5	0							5		
Other					14	0							14		
								3x 702, 4x 703, 1x 716, 2x 743, 1x 744, 3x 768							

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End of report

Printed: 30.05.2021