

Summary statistics - quantitative results

(Groups: system)

Filter: minimal size of the groups n = 5

EQA round: KO3/22 - Blood Count

Deadline: 20.05.2022

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 _{AV} = expanded uncertainty of the assigned value (k = 2)	

Test	[unit]						Comparability								
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}	
(150) WBC					194							194	192	99%	
----- Samples and groups	r.10(exp9)/L]														
Sample A		9,30	0,32	3,5	194	CVP	9,30	0,057	15%	7,9	10,7	194	194	100%	
(716) HORIBA Medical Pentra series, Yumizen series		8,77	0,85	9,6	5	0						5			
(737) Siemens Advia 120, 2120, 2120i		8,95	0,33	3,7	17	0						17			
(741) Nihon Kohden Celltac Alfa		8,95	0,22	2,5	5	0						5			
(749) Sysmex XE, XS, XT series		9,31	0,14	1,5	9	0						9			
(755) Sysmex KX series		9,16	0,29	3,1	11	0						11			
(765) Abbott CELL-DYN Ruby		9,53	0,35	3,7	10	0						10			
(766) MINDRAY BC 2xxx, 3xxx series		9,05	0,22	2,5	9	0						9			
(771) MINDRAY BC 6xxx series		9,47	0,25	2,7	23	0						23			
(772) Sysmex XN series		9,43	0,17	1,8	78	0						78			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		9,00	0,30	3,3	9	0						9			
Other					18	0						18			
							2x 702, 3x 703, 1x 706, 1x 718, 4x 743, 1x 744, 1x 763, 4x 768, 1x 999								
Sample B		4,49	0,17	3,9	194	CVP	4,49	0,031	15%	3,81	5,17	194	192	99%	
(716) HORIBA Medical Pentra series, Yumizen series		4,26	0,39	9,0	5	0						5			
(737) Siemens Advia 120, 2120, 2120i		4,34	0,26	5,9	17	0						17			
(741) Nihon Kohden Celltac Alfa		4,35	0,074	1,7	5	0						5			
(749) Sysmex XE, XS, XT series		4,52	0,096	2,1	9	0						9			
(755) Sysmex KX series		4,48	0,20	4,5	11	0						11			
(765) Abbott CELL-DYN Ruby		4,25	0,16	3,8	10	0						10			
(766) MINDRAY BC 2xxx, 3xxx series		4,37	0,096	2,2	9	0						9			
(771) MINDRAY BC 6xxx series		4,59	0,089	1,9	23	0						23			
(772) Sysmex XN series		4,54	0,12	2,6	78	0						78			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,45	0,22	5,0	9	0						9			
Other					18	0						18			
							2x 702, 3x 703, 1x 706, 1x 718, 4x 743, 1x 744, 1x 763, 4x 768, 1x 999								
(151) RBC					194							194	193	99%	
----- Samples and groups	r.10(exp12)/L]														
Sample A		3,81	0,069	1,8	194	CVP	3,81	0,012	7%	3,54	4,08	194	193	99%	
(716) HORIBA Medical Pentra series, Yumizen series		3,73	0,11	3,0	5	0						5			
(737) Siemens Advia 120, 2120, 2120i		3,86	0,071	1,8	17	0						17			
(741) Nihon Kohden Celltac Alfa		3,84	0,0220,58		5	0						5			
(749) Sysmex XE, XS, XT series		3,84	0,030,77		9	0						9			
(755) Sysmex KX series		3,83	0,04	1,1	11	0						11			
(765) Abbott CELL-DYN Ruby		3,90	0,093	2,4	10	0						10			
(766) MINDRAY BC 2xxx, 3xxx series		3,86	0,059	1,5	9	0						9			
(771) MINDRAY BC 6xxx series		3,81	0,079	2,1	23	0						23			
(772) Sysmex XN series		3,79	0,052	1,4	78	0						78			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,76	0,030,79		9	0						9			
Other					18	0						18			
							2x 702, 3x 703, 1x 706, 1x 718, 4x 743, 1x 744, 1x 763, 4x 768, 1x 999								
Sample B		4,57	0,071	1,6	194	CVP	4,57	0,013	7%	4,25	4,89	194	194	100%	
(716) HORIBA Medical Pentra series, Yumizen series		4,50	0,052	1,2	5	0						5			
(737) Siemens Advia 120, 2120, 2120i		4,59	0,079	1,7	17	0						17			
(741) Nihon Kohden Celltac Alfa		4,58	0,0220,49		5	0						5			
(749) Sysmex XE, XS, XT series		4,60	0,030,65		9	0						9			
(755) Sysmex KX series		4,55	0,064	1,4	11	0						11			
(765) Abbott CELL-DYN Ruby		4,67	0,12	2,6	10	0						10			
(766) MINDRAY BC 2xxx, 3xxx series		4,64	0,067	1,4	9	0						9			
(771) MINDRAY BC 6xxx series		4,59	0,087	1,9	23	0						23			
(772) Sysmex XN series		4,57	0,058	1,3	78	0						78			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,55	0,052	1,1	9	0						9			
Other					18	0						18			
							2x 702, 3x 703, 1x 706, 1x 718, 4x 743, 1x 744, 1x 763, 4x 768, 1x 999								
(152) Haemoglobin					195							195	194	99%	
----- Samples and groups	[g/L]														
Sample A		112	2,1	1,9	195	CVP	112	0,37	6%	105	119	195	194	99%	
(716) HORIBA Medical Pentra series, Yumizen series		115	1,5	1,3	5	0						5			
(737) Siemens Advia 120, 2120, 2120i		115	1,6	1,4	17	0						17			

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EQA round: KO3/22 - Blood Count

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Test	[unit]						Comparability							
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}
(152) Haemoglobin	[g/L]				195							195	194	99%
Samples and groups														
Sample A		112	2,1	1,9	195	CVP	112	0,37	6%	105	119	195	194	99%
(741) Nihon Kohden Celltac Alfa		114	0,740,65		5	1								5
(749) Sysmex XE, XS, XT series		113	1,00,92		9	0								9
(755) Sysmex KX series		111	1,1	1,0	11	0								11
(765) Abbott CELL-DYN Ruby		115	1,8	1,5	10	0								10
(766) MINDRAY BC 2xxx, 3xxx series		114	2,2	2,0	9	0								9
(771) MINDRAY BC 6xxx series		112	1,8	1,6	23	0								23
(772) Sysmex XN series		111	1,3	1,2	78	0								78
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		112	0,740,66		9	0								9
Other					19	0								19
----- 2x 702, 3x 703, 1x 706, 1x 718, 4x 743, 1x 744, 1x 763, 4x 768, 2x 999 -----														
Sample B		132	1,9	1,4	195	CVP	132	0,34	6%	124	140	195	194	99%
(716) HORIBA Medical Pentra series, Yumizen series		134	1,5	1,1	5	0								5
(737) Siemens Advia 120, 2120, 2120i		133	2,1	1,6	17	0								17
(741) Nihon Kohden Celltac Alfa		132	3,0	2,2	5	1								5
(749) Sysmex XE, XS, XT series		132	0,740,56		9	0								9
(755) Sysmex KX series		129	2,9	2,2	11	0								11
(765) Abbott CELL-DYN Ruby		134	2,5	1,9	10	0								10
(766) MINDRAY BC 2xxx, 3xxx series		133	2,2	1,7	9	0								9
(771) MINDRAY BC 6xxx series		132	1,6	1,2	23	0								23
(772) Sysmex XN series		131	1,3	1,0	78	0								78
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		131	1,5	1,1	9	0								9
Other					19	0								19
----- 2x 702, 3x 703, 1x 706, 1x 718, 4x 743, 1x 744, 1x 763, 4x 768, 2x 999 -----														
(153) HCT	[-]				194							194	190	98%
Samples and groups														
Sample A		0,362	0,012	3,4	194	CVP	0,362	,0022	10%	0,325	0,399	194	191	98%
(716) HORIBA Medical Pentra series, Yumizen series		0,345	0,007	2,1	5	0								5
(737) Siemens Advia 120, 2120, 2120i		0,375	0,009	2,6	17	0								17
(741) Nihon Kohden Celltac Alfa		0,347	0,034	9,8	5	1								5
(749) Sysmex XE, XS, XT series		0,363	0,011	3,1	9	0								9
(755) Sysmex KX series		0,360	0,005	1,6	11	0								11
(765) Abbott CELL-DYN Ruby		0,368	0,008	2,2	10	0								10
(766) MINDRAY BC 2xxx, 3xxx series		0,360	0,008	2,3	9	0								9
(771) MINDRAY BC 6xxx series		0,352	0,008	2,3	23	0								23
(772) Sysmex XN series		0,368	0,007	1,9	78	0								78
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,347	0,005	1,5	9	0								9
Other					18	0								18
----- 2x 702, 3x 703, 1x 706, 1x 718, 4x 743, 1x 744, 1x 763, 4x 768, 1x 999 -----														
Sample B		0,413	0,013	3,2	194	CVP	0,413	,0024	10%	0,371	0,455	194	192	99%
(716) HORIBA Medical Pentra series, Yumizen series		0,397	0,007	1,9	5	0								5
(737) Siemens Advia 120, 2120, 2120i		0,419	0,009	2,3	17	0								17
(741) Nihon Kohden Celltac Alfa		0,396	0,028	7,1	5	1								5
(749) Sysmex XE, XS, XT series		0,414	0,008	2,1	9	0								9
(755) Sysmex KX series		0,404	0,009	2,3	11	0								11
(765) Abbott CELL-DYN Ruby		0,415	0,009	2,3	10	0								10
(766) MINDRAY BC 2xxx, 3xxx series		0,411	0,007	1,8	9	0								9
(771) MINDRAY BC 6xxx series		0,408	0,007	1,9	23	0								23
(772) Sysmex XN series		0,422	0,008	1,9	78	0								78
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,396	0,0030,94		9	0								9
Other					18	0								18
----- 2x 702, 3x 703, 1x 706, 1x 718, 4x 743, 1x 744, 1x 763, 4x 768, 1x 999 -----														
(154) MCV	[fL]				194							194	193	99%
Samples and groups														
Sample A		94,9	3,0	3,2	194	CVP	94,9	0,53	10%	85,4	105	194	193	99%
(716) HORIBA Medical Pentra series, Yumizen series		91,5	0,740,81		5	0								5
(737) Siemens Advia 120, 2120, 2120i		96,9	2,1	2,1	17	0								17
(741) Nihon Kohden Celltac Alfa		87,5	2,1	2,5	5	0								5
(749) Sysmex XE, XS, XT series		94,0	2,0	2,1	9	0								9
(755) Sysmex KX series		94,2	0,660,70		11	0								11
(765) Abbott CELL-DYN Ruby		94,4	1,7	1,8	10	0								10
(766) MINDRAY BC 2xxx, 3xxx series		93,5	4,8	5,2	9	0								9
(771) MINDRAY BC 6xxx series		92,5	1,9	2,1	23	0								23
(772) Sysmex XN series		96,9	1,3	1,4	78	0								78
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		92,4	1,3	1,4	9	0								9
Other					18	0								18
----- 2x 702, 3x 703, 1x 706, 1x 718, 4x 743, 1x 744, 1x 763, 4x 768, 1x 999 -----														

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Test	[unit]						Comparability									
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL	N _{eva}	N _{suc}	S _{rel}		
Sample B		90,3	2,8	3,1	194		CVP	90,3	0,49	10%	81,2	99,4	194	194	100%	
(716) HORIBA Medical Pentra series, Yumizen series		88,1	1,4	1,6	5	0							5			
(737) Siemens Advia 120, 2120, 2120i		91,0	1,9	2,0	17	0							17			
(741) Nihon Kohden Celltac Alfa		85,0	2,7	3,1	5	0							5			
(749) Sysmex XE, XS, XT series		89,6	1,9	2,2	9	0							9			
(755) Sysmex KX series		88,9	0,730	0,82	11	0							11			
(765) Abbott CELL-DYN Ruby		88,7	1,8	2,0	10	0							10			
(766) MINDRAY BC 2xxx, 3xxx series		88,4	4,5	5,1	9	0							9			
(771) MINDRAY BC 6xxx series		88,9	1,9	2,1	23	0							23			
(772) Sysmex XN series		92,4	1,3	1,4	78	0							78			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		87,2	0,89	1,0	9	0							9			
Other					18	0							18			
								2x 702, 3x 703, 1x 706, 1x 718, 4x 743, 1x 744, 1x 763, 4x 768, 1x 999								
(155) Platelets					194								194	192	99%	
----- Samples and groups -----	f.10(exp9)/L]															
Sample A		304	15	5,0	194		CVP	304	2,7	20%	243	365	194	193	99%	
(716) HORIBA Medical Pentra series, Yumizen series		310	9,6	3,1	5	0							5			
(737) Siemens Advia 120, 2120, 2120i		286	19	6,7	17	0							17			
(741) Nihon Kohden Celltac Alfa		288	10	3,5	5	0							5			
(749) Sysmex XE, XS, XT series		307	6,2	2,0	9	0							9			
(755) Sysmex KX series		306	13	4,1	11	0							11			
(765) Abbott CELL-DYN Ruby		278	7,1	2,6	10	0							10			
(766) MINDRAY BC 2xxx, 3xxx series		304	9,6	3,2	9	0							9			
(771) MINDRAY BC 6xxx series		315	12	3,9	23	0							23			
(772) Sysmex XN series		308	8,8	2,9	78	0							78			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		294	8,2	2,8	9	0							9			
Other					18	0							18			
								2x 702, 3x 703, 1x 706, 1x 718, 4x 743, 1x 744, 1x 763, 4x 768, 1x 999								
Sample B		234	13	5,5	194		CVP	234	2,3	20%	187	281	194	193	99%	
(716) HORIBA Medical Pentra series, Yumizen series		237	5,2	2,2	5	0							5			
(737) Siemens Advia 120, 2120, 2120i		207	16	7,8	17	0							17			
(741) Nihon Kohden Celltac Alfa		222	11	5,2	5	0							5			
(749) Sysmex XE, XS, XT series		234	11	4,6	9	0							9			
(755) Sysmex KX series		242	5,9	2,4	11	0							11			
(765) Abbott CELL-DYN Ruby		214	10	4,7	10	0							10			
(766) MINDRAY BC 2xxx, 3xxx series		234	8,2	3,5	9	0							9			
(771) MINDRAY BC 6xxx series		244	7,8	3,2	23	0							23			
(772) Sysmex XN series		236	8,1	3,4	78	0							78			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		230	3,7	1,6	9	0							9			
Other					18	0							18			
								2x 702, 3x 703, 1x 706, 1x 718, 4x 743, 1x 744, 1x 763, 4x 768, 1x 999								
(156) RDW					174								168	163	97%	
----- Samples and groups -----	[%]															
Sample A		16,1	0,63	3,9	174								168	164	98%	
(1) Abbott; (765) Abbott CELL-DYN Ruby		15,0	0,96	6,4	9	0	CVPG	14,9	0,62	10%	13,4	16,4	9			
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		17,2	0,150	0,86	9	0	CVPG	17,2	0,20	10%	15,4	19	9			
(63) Sysmex; (749) Sysmex XE, XS, XT series		16,6	0,33	2,0	7	0	CVPG	16,3	0,068	10%	14,6	18	7			
(63) Sysmex; (755) Sysmex KX series		16,0	0,52	3,3	6	1	CVPG	16,3	0,068	10%	14,6	18	6			
(63) Sysmex; (772) Sysmex XN series		16,3	0,22	1,3	76	0	CVPG	16,3	0,068	10%	14,6	18	76			
(157) Nihon Kohden; (741) Nihon Kohden Celltac Alfa		14,7	0,93	6,3	5	0	CVPG	14,7	1,0	10%	13,2	16,2	5			
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		16,6	0,67	4,0	8	0	CVPG	15,9	0,23	10%	14,3	17,5	8			
(177) Mindray; (771) MINDRAY BC 6xxx series		15,7	0,34	2,2	21	0	CVPG	15,9	0,23	10%	14,3	17,5	21			
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		15,6	0,43	2,7	16	0	CVPG	15,7	0,31	10%	14,1	17,3	16			
Other					17	0							11			
								2x 1/702, 1x 1/763, 1x 12/718, 1x 46/999, 2x 157/743, 1x 157/744, 2x 177/768, 2x 179/703, 4x 204/716, 1x 205/706								
Sample B		14,0	0,42	3,0	174								168	165	98%	
(1) Abbott; (765) Abbott CELL-DYN Ruby		12,6	0,59	4,7	9	0	CVPG	12,9	0,62	10%	11,6	14,2	9			
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		14,6	0,074	0,51	9	0	CVPG	14,6	0,19	10%	13,1	16,1	9			
(63) Sysmex; (749) Sysmex XE, XS, XT series		14,4	0,22	1,5	7	0	CVPG	14,0	0,059	10%	12,6	15,4	7			
(63) Sysmex; (755) Sysmex KX series		13,5	0,74	5,5	6	1	CVPG	14,0	0,059	10%	12,6	15,4	6			
(63) Sysmex; (772) Sysmex XN series		14,0	0,19	1,4	76	0	CVPG	14,0	0,059	10%	12,6	15,4	76			

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		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL					
(156) RDW					174									168	163	97%
Samples and groups	[%]															
Sample B		14,0	0,42	3,0	174									168	165	98%
(157) Nihon Kohden; (741) Nihon Kohden Celltac Alfa		13,3	0,67	5,0	5	0	CVPG	13,4	0,96	10%	12	14,8		5		
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		14,8	0,67	4,5	8	0	CVPG	14,3	0,099	10%	12,8	15,8		8		
(177) Mindray; (771) MINDRAY BC 6xxx series		14,2	0,093	0,65	21	0	CVPG	14,3	0,099	10%	12,8	15,8		21		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		14,0	0,32	2,3	16	0	CVPG	14,1	0,29	10%	12,6	15,6		16		
Other					17	0								11		
														2x 1/702, 1x 1/763, 1x 12/718, 1x 46/999, 2x 157/743, 1x 157/744, 2x 177/768, 2x 179/703, 4x 204/716, 1x 205/706		
(157) MPV					172									164	161	98%
Samples and groups	[fL]															
Sample A		10,2	0,69	6,8	172									164	163	99%
(1) Abbott; (765) Abbott CELL-DYN Ruby		6,05	0,81	13	8	0	CVPG	6,15	0,58	18%	5,04	7,26		8		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		8,65	0,074	0,86	9	0	CVPG	8,71	0,23	18%	7,14	10,3		9		
(63) Sysmex; (749) Sysmex XE, XS, XT series		10,4	0,44	4,3	8	0	CVPG	10,5	0,070	18%	8,61	12,4		8		
(63) Sysmex; (755) Sysmex KX series		10,3	0,15	1,4	6	0	CVPG	10,5	0,070	18%	8,61	12,4		6		
(63) Sysmex; (772) Sysmex XN series		10,5	0,27	2,6	74	0	CVPG	10,5	0,070	18%	8,61	12,4		74		
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		10,2	0,96	9,5	7	0	CVPG	10,2	0,23	18%	8,36	12,1		7		
(177) Mindray; (771) MINDRAY BC 6xxx series		10,3	0,44	4,3	23	0	CVPG	10,2	0,23	18%	8,36	12,1		23		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		10,9	0,83	7,7	16	0	CVPG	10,9	0,51	18%	8,93	12,9		16		
Other					21	0								13		
														1x 1/702, 1x 1/763, 1x 12/718, 1x 46/999, 4x 157/741, 2x 157/743, 1x 157/744, 3x 177/768, 2x 179/703, 4x 204/716, 1x 205/706		
Sample B		10,1	0,85	8,4	172									164	161	98%
(1) Abbott; (765) Abbott CELL-DYN Ruby		5,98	0,86	14	8	0	CVPG	6,16	0,71	18%	5,05	7,27		8		
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		8,70	0,30	3,4	9	0	CVPG	8,61	0,27	18%	7,06	10,2		9		
(63) Sysmex; (749) Sysmex XE, XS, XT series		10,4	0,87	8,4	8	0	CVPG	10,4	0,11	18%	8,52	12,3		8		
(63) Sysmex; (755) Sysmex KX series		10,5	0,44	4,2	6	0	CVPG	10,4	0,11	18%	8,52	12,3		6		
(63) Sysmex; (772) Sysmex XN series		10,4	0,38	3,6	74	0	CVPG	10,4	0,11	18%	8,52	12,3		74		
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		10,1	1,2	12	7	0	CVPG	10,4	0,29	18%	8,52	12,3		7		
(177) Mindray; (771) MINDRAY BC 6xxx series		10,4	0,62	6,0	23	0	CVPG	10,4	0,29	18%	8,52	12,3		23		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		10,8	0,90	8,4	16	0	CVPG	10,8	0,55	18%	8,85	12,8		16		
Other					21	0								13		
														1x 1/702, 1x 1/763, 1x 12/718, 1x 46/999, 4x 157/741, 2x 157/743, 1x 157/744, 3x 177/768, 2x 179/703, 4x 204/716, 1x 205/706		
(158) PDW [%]					30									24	21	88%
Samples and groups	[%]															
Sample A		28,9	18	63	30									24	22	92%
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		16,9	0,37	2,2	7	0	CVPG	16,9	0,36	15%	14,3	19,5		7		
(157) Nihon Kohden; (741) Nihon Kohden Celltac Alfa		17,1	0,30	1,7	5	0	CVPG	17,5	0,86	15%	14,8	20,2		5		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		49,8	7,2	14	10	0	CVPG	49,8	5,5	15%	42,3	57,3		10		
Other					8	0								2		
														1x 46/999, 1x 157/743, 1x 157/744, 2x 179/703, 2x 204/716, 1x 205/706		
Sample B		27,4	16	59	30									24	21	88%
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		16,8	0,150	0,88	7	0	CVPG	16,8	0,14	15%	14,2	19,4		7		
(157) Nihon Kohden; (741) Nihon Kohden Celltac Alfa		17,0	0,82	4,8	5	0	CVPG	17	0,79	15%	14,4	19,6		5		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		46,0	6,6	14	10	0	CVPG	46	5,1	15%	39,1	52,9		10		
Other					8	0								2		
														1x 46/999, 1x 157/743, 1x 157/744, 2x 179/703, 2x 204/716, 1x 205/706		
(165) PDW [fL]					88									87	84	97%
Samples and groups	[fL]															
Sample A		11,7	0,63	5,4	88									87	86	99%
(63) Sysmex; (749) Sysmex XE, XS, XT series		11,8	0,83	7,1	8	0	CVPG	11,7	0,16	15%	9,94	13,5		8		
(63) Sysmex; (755) Sysmex KX series		12,7	0,37	2,9	5	0	CVPG	11,7	0,16	15%	9,94	13,5		5		
(63) Sysmex; (772) Sysmex XN series		11,6	0,57	4,9	74	0	CVPG	11,7	0,16	15%	9,94	13,5		74		
Other					1	0								0		
														1x 204/716		

Summary statistics - quantitative results

(Groups: system)

Filter: minimal size of the groups n = 5

EQA round: KO3/22 - Blood Count

Deadline: 20.05.2022

Test	[unit]						Comparability							N _{eva}	N _{suc}	S _{rel}	
		RoM	SD	CV [%]	N _{tot}	N _{out}	AV	U _{AV}	D _{max}	LL	UL						
Sample B		12,2	0,92	7,5	88										87	84	97%
(63) Sysmex; (749) Sysmex XE, XS, XT series		12,7	1,7	13	8	0	CVPG	12,2	0,24	15%	10,3	14,1			8		
(63) Sysmex; (755) Sysmex KX series		13,8	0,37	2,7	5	0	CVPG	12,2	0,24	15%	10,3	14,1			5		
(63) Sysmex; (772) Sysmex XN series		12,0	0,74	6,2	74	0	CVPG	12,2	0,24	15%	10,3	14,1			74		
Other					1	0									0		
1x 204/716																	
(166) PDW [-]					34										34	33	97%
Samples and groups [-]																	
Sample A		16,1	0,41	2,5	34										34	33	97%
(1) Abbott; (765) Abbott CELL-DYN Ruby		19,6	0,82	4,2	6	0	CVPG	19,4	1,1	15%	16,4	22,4			6		
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		15,7	0,150	0,94	6	0	CVPG	16	0,11	15%	13,6	18,4			6		
(177) Mindray; (771) MINDRAY BC 6xxx series		16,1	0,130	0,82	19	0	CVPG	16	0,11	15%	13,6	18,4			19		
Other					3	0									3		
1x 1/763, 2x 177/768																	
Sample B		16,0	0,37	2,3	34										34	33	97%
(1) Abbott; (765) Abbott CELL-DYN Ruby		19,2	0,59	3,1	6	0	CVPG	19,1	0,72	15%	16,2	22			6		
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		15,5	0,44	2,9	6	0	CVPG	16	0,089	15%	13,6	18,4			6		
(177) Mindray; (771) MINDRAY BC 6xxx series		16,0	0,130	0,84	19	0	CVPG	16	0,089	15%	13,6	18,4			19		
Other					3	0									3		
1x 1/763, 2x 177/768																	
(160) Neutrophiles					149										141	137	97%
Samples and groups f.10(exp9)/L]																	
Sample A		5,32	0,18	3,5	149										141	139	99%
(737) Siemens Advia 120, 2120, 2120i		5,23	0,24	4,6	16	0	CVP	5,33	0,036	25%	3,99	6,67			16		
(749) Sysmex XE, XS, XT series		5,25	0,18	3,4	9	0	CVP	5,33	0,036	25%	3,99	6,67			9		
(765) Abbott CELL-DYN Ruby		4,99	0,34	6,8	8	0	CVPG	4,99	0,26	25%	3,74	6,24			0		
(771) MINDRAY BC 6xxx series		5,52	0,14	2,6	21	0	CVP	5,33	0,036	25%	3,99	6,67			21		
(772) Sysmex XN series		5,34	0,11	2,1	75	0	CVP	5,33	0,036	25%	3,99	6,67			75		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		5,16	0,22	4,3	8	0	CVP	5,33	0,036	25%	3,99	6,67			8		
Other					12	1									12		
1x 702, 2x 703, 1x 716, 1x 718, 2x 743, 1x 744, 1x 755, 1x 763, 1x 768, 1x 999																	
Sample B		3,32	0,18	5,5	149										141	137	97%
(737) Siemens Advia 120, 2120, 2120i		3,06	0,25	8,0	16	0	CVP	3,34	0,033	25%	2,5	4,18			16		
(749) Sysmex XE, XS, XT series		3,33	0,089	2,7	9	0	CVP	3,34	0,033	25%	2,5	4,18			9		
(765) Abbott CELL-DYN Ruby		2,72	0,29	11	8	1	CVPG	2,72	0,28	25%	2,04	3,4			0		
(771) MINDRAY BC 6xxx series		3,49	0,083	2,4	21	0	CVP	3,34	0,033	25%	2,5	4,18			21		
(772) Sysmex XN series		3,35	0,11	3,2	75	0	CVP	3,34	0,033	25%	2,5	4,18			75		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,30	0,15	4,5	8	0	CVP	3,34	0,033	25%	2,5	4,18			8		
Other					12	1									12		
1x 702, 2x 703, 1x 716, 1x 718, 2x 743, 1x 744, 1x 755, 1x 763, 1x 768, 1x 999																	
(161) Lymphocytes					150										142	137	96%
Samples and groups f.10(exp9)/L]																	
Sample A		3,21	0,13	4,1	150										142	141	99%
(737) Siemens Advia 120, 2120, 2120i		2,93	0,17	5,6	16	0	CVP	3,2	0,025	25%	2,4	4			16		
(749) Sysmex XE, XS, XT series		3,17	0,12	3,7	10	0	CVP	3,2	0,025	25%	2,4	4			10		
(765) Abbott CELL-DYN Ruby		3,67	0,16	4,2	8	0	CVPG	3,67	0,12	25%	2,75	4,59			0		
(771) MINDRAY BC 6xxx series		3,21	0,088	2,7	21	0	CVP	3,2	0,025	25%	2,4	4			21		
(772) Sysmex XN series		3,24	0,073	2,3	74	0	CVP	3,2	0,025	25%	2,4	4			74		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,00	0,15	4,9	8	0	CVP	3,2	0,025	25%	2,4	4			8		
Other					13	1									13		
1x 702, 2x 703, 1x 716, 1x 718, 2x 743, 1x 744, 2x 755, 1x 763, 1x 768, 1x 999																	
Sample B		0,714	0,047	6,6	150										142	137	96%
(737) Siemens Advia 120, 2120, 2120i		0,647	0,073	11	16	0	CVP	0,709	0,089	25%	0,531	0,887			16		
(749) Sysmex XE, XS, XT series		0,700	0,027	3,8	10	0	CVP	0,709	0,089	25%	0,531	0,887			10		
(765) Abbott CELL-DYN Ruby		1,12	0,33	30	8	0	CVPG	1,12	0,25	25%	0,84	1,4			0		
(771) MINDRAY BC 6xxx series		0,707	0,036	5,1	21	0	CVP	0,709	0,089	25%	0,531	0,887			21		
(772) Sysmex XN series		0,710	0,032	4,6	74	0	CVP	0,709	0,089	25%	0,531	0,887			74		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,735	0,052	7,1	8	0	CVP	0,709	0,089	25%	0,531	0,887			8		
Other					13	2									13		
1x 702, 2x 703, 1x 716, 1x 718, 2x 743, 1x 744, 2x 755, 1x 763, 1x 768, 1x 999																	
(162) Monocytes					148										132	129	98%
Samples and groups f.10(exp9)/L]																	
Sample A		0,544	0,087	16	148										132	130	98%
(737) Siemens Advia 120, 2120, 2120i		0,422	0,045	11	16	0	CVPG	0,422	0,028	50%	0,211	0,633			0		
(749) Sysmex XE, XS, XT series		0,610	0,03	4,9	9	0	CVP	0,56	0,016	50%	0,28	0,84			9		
(765) Abbott CELL-DYN Ruby		0,530	0,13	24	8	0	CVP	0,56	0,016	50%	0,28	0,84			8		

Summary statistics - quantitative results

(Groups: system)

Filter: minimal size of the groups n = 5

EQA round: KO3/22 - Blood Count

Deadline: 20.05.2022

Test	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability						N _{eva}	N _{suc}	S _{rel}	
							AV	U _{AV}	D _{max}	LL	UL					
(162) Monocytes	f.10(exp9)/L]				148								132	129	98%	
Samples and groups																
Sample A		0,544	0,087	16	148								132	130	98%	
(771) MINDRAY BC 6xxx series		0,458	0,039	8,5	21	0	CVP	0,56	0,016	50%	0,28	0,84		21		
(772) Sysmex XN series		0,595	0,043	7,2	75	0	CVP	0,56	0,016	50%	0,28	0,84		75		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,509	0,016	3,2	8	0	CVP	0,56	0,016	50%	0,28	0,84		8		
Other					11	0								11		
								1x 702, 2x 703, 1x 716, 1x 718, 2x 743, 1x 744, 1x 763, 1x 768, 1x 999								
Sample B		0,326	0,053	16	148								132	130	98%	
(737) Siemens Advia 120, 2120, 2120i		0,433	0,099	23	16	0	CVP	0,433	0,061	50%	0,216	0,65		0		
(749) Sysmex XE, XS, XT series		0,350	0,015	4,2	9	0	CVP	0,32	0,010	50%	0,16	0,48		9		
(765) Abbott CELL-DYN Ruby		0,300	0,074	25	8	0	CVP	0,32	0,010	50%	0,16	0,48		8		
(771) MINDRAY BC 6xxx series		0,256	0,031	12	21	0	CVP	0,32	0,010	50%	0,16	0,48		21		
(772) Sysmex XN series		0,339	0,031	9,2	75	0	CVP	0,32	0,010	50%	0,16	0,48		75		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,295	0,008	2,8	8	0	CVP	0,32	0,010	50%	0,16	0,48		8		
Other					11	0								11		
								1x 702, 2x 703, 1x 716, 1x 718, 2x 743, 1x 744, 1x 763, 1x 768, 1x 999								
(163) Eosinophils	f.10(exp9)/L]				148								148	143	97%	
Samples and groups																
Sample A		0,208	0,022	10	148		CVP	0,208	,0044	50%	0,104	0,312		148	145	98%
(737) Siemens Advia 120, 2120, 2120i		0,199	0,032	16	16	0								16		
(749) Sysmex XE, XS, XT series		0,235	0,037	16	9	0								9		
(765) Abbott CELL-DYN Ruby		0,213	0,03	14	8	0								8		
(771) MINDRAY BC 6xxx series		0,217	0,022	10	21	0								21		
(772) Sysmex XN series		0,205	0,018	8,6	75	0								75		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,206	0,008	4,0	8	0								8		
Other					11	0								11		
								1x 702, 2x 703, 1x 716, 1x 718, 2x 743, 1x 744, 1x 763, 1x 768, 1x 999								
Sample B		0,117	0,017	14	148		CVP	0,117	,0034	50%	0,058	0,176		148	145	98%
(737) Siemens Advia 120, 2120, 2120i		0,091	0,017	19	16	0								16		
(749) Sysmex XE, XS, XT series		0,120	0,015	12	9	0								9		
(765) Abbott CELL-DYN Ruby		0,114	0,019	16	8	0								8		
(771) MINDRAY BC 6xxx series		0,127	0,014	11	21	0								21		
(772) Sysmex XN series		0,119	0,014	11	75	0								75		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,112	0,017	15	8	0								8		
Other					11	0								11		
								1x 702, 2x 703, 1x 716, 1x 718, 2x 743, 1x 744, 1x 763, 1x 768, 1x 999								
(164) Basophiles	f.10(exp9)/L]				148								148	147	99%	
Samples and groups																
Sample A		0,053	0,021	39	148		CVP	0,053	,0041	asym.	0	0,279		148	147	99%
(737) Siemens Advia 120, 2120, 2120i		0,068	0,023	34	16	0								16		
(749) Sysmex XE, XS, XT series		0,035	0,007	21	9	0								9		
(765) Abbott CELL-DYN Ruby		0,102	0,036	36	8	0								8		
(771) MINDRAY BC 6xxx series		0,028	0,016	56	21	0								21		
(772) Sysmex XN series		0,056	0,011	20	75	0								75		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,070	0,045	64	8	0								8		
Other					11	0								11		
								1x 702, 2x 703, 1x 716, 1x 718, 2x 743, 1x 744, 1x 763, 1x 768, 1x 999								
Sample B		0,022	0,013	60	148		CVP	0,022	,0027	asym.	0	0,135		148	147	99%
(737) Siemens Advia 120, 2120, 2120i		0,022	0,01	46	16	0								16		
(749) Sysmex XE, XS, XT series		0,015	0,007	49	9	0								9		
(765) Abbott CELL-DYN Ruby		0,051	0,02	40	8	0								8		
(771) MINDRAY BC 6xxx series		0,014	0,007	52	21	0								21		
(772) Sysmex XN series		0,025	0,012	49	75	0								75		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,010	0,015	150	8	0								8		
Other					11	0								11		
								1x 702, 2x 703, 1x 716, 1x 718, 2x 743, 1x 744, 1x 763, 1x 768, 1x 999								

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End of report

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