Summary statistics - quantitative results

Filter: Slovakia, minimal size of groups n = 5

EQA round: KO2/19 - Blood Count

Dead line: 24.05.2019

RoM = robust average
SD = standard deviation
CV = coefficient of variation
Ntot = total number of participants
Nout = number of results excluded before calculation

AV = assigned value
CRV = certified reference value
RV = reference value
CVE = consensus value from experts
CVP = consensus value from all participants
CVPG = consensus value from participants groups
U_{AV} = expanded uncertainty of the assigned value (k = 2)

Dmax = acceptable percent difference
LL = lower limit
UL = upper limit
Neva = number of evaluated participants
Nsuc = number of successful participants
Srel = success (relative)

Test [unit]	RoM	SD	CV [%]	N_{tot}	N_{out}	Comparability: AV	U_{AV}	D_{max}	LL	UL	N_{eva}	N_{suc}	S_{rel}
(150) WBC [·10(exp9)/L]				68							68	67	99%
Samples and groups -													
Sample A	2,84	0,11	4,0	68		CVP 2,89	0,013	18%	2,36	3,42	68	68	100%
All results	2,84	0,11	4,0	68	0						68		
Sample B	14,2	0,58	4,1	68		CVP 14,5	0,071	15%	12,3	16,7	68	67	99%
All results	14,2	0,58	4,1	68	1						68		
(151) RBC [·10(exp12)/L]				68							68	66	97%
Samples and groups -													
Sample A	2,08	0,048	2,3	68		CVP 2,07	,0060	7%	1,92	2,22	68	67	99%
All results	2,08	0,048	2,3	68	0						68		
Sample B	5,50	0,12	2,1	68		CVP 5,56	0,014	7%	5,17	5,95	68	67	99%
All results	5,50	0,12	2,1	68	1						68		
(152) Haemoglobin [g/L]				68							68	65	96%
Samples and groups -													
Sample A	63,2	1,3	2,0	68							68	66	97%
All results (without individual groups)	63,2	1,3	2,0	68	0	CVP 63	0,18	6%	59,2	66,8	68		
Sample B	168	2,9	1,8	68							68	67	99%
All results (without individual groups)	168	2,9	1,8	68	1	CVP 168	0,33	6%	157	179	68		
(153) HCT [-]				68							68	63	93%
Samples and groups -													
Sample A	0,196	0,012	6,0	68							68	64	94%
(1) Automate	0,197	0,011	5,3	62	0	CVPG 0,191	0	10%	0,171	0,211	62		
(2) Automate (optical p.)	0,163	0,004	2,7	6	0	CVPG 0,164	,0017	10%	0,147	0,181	6		
Sample B	0,480	0,028	5,9	68							68	67	99%
(1) Automate	0,484	0,025	5,2	62	1	CVPG 0,485	,0022	10%	0,436	0,534	62		
(2) Automate (optical p.)	0,422	0,012	2,8	6	0	CVPG 0,427	,0050	10%	0,384	0,47	6		
(154) MCV [fL]				68							68	62	91%
Samples and groups -													
Sample A	94,3	5,1	5,5	68							68	68	100%
(1) Automate	95,1	4,5	4,8	62	0	CVPG 92,8	0,40	10%	83,5	103	62		
(2) Automate (optical p.)	78,5	1,6	2,0	6	0	CVPG 78,7	0,69	10%	70,8	86,6	6		
Sample B	87,1	5,2	6,0	68							68	62	91%
(1) Automate	87,8	4,5	5,2	62	1	CVPG 87,3	0,39	10%	78,5	96,1	62		
(2) Automate (optical p.)	76,9	3,0	3,9	6	0	CVPG 77,1	0,83	10%	69,3	84,9	6		
(155) Platelets [·10(exp9)/L]				68							68	65	96%
Samples and groups -													
Sample A	47,4	4,1	8,6	68							68	67	99%
All results (without individual groups)	47,0	3,6	7,7	65	0	CVP 46,2	0,45	27%	33,7	58,7	65		
Other				3	0	3x 765					3		
Sample B	485	36	7,3	68		CVP 488	3,6	20%	390	586	68	66	97%
All results	485	36	7,3	68	1						68		
(156) RDW [%]				59							56	50	89%
Samples and groups -													
Sample A	12,7	1,4	11	59							56	54	96%
(749) Sysmex XE, XS, XT series	13,4	0,29	2,2	20	0	CVPG 13,3	0,099	10%	11,9	14,7	20		
(755) Sysmex KX series	8,90	0,30	3,3	7	0	CVPG 8,9	0,20	10%	8,01	9,79	7		
(768) MINDRAY BC 5xxx series	12,4	1,6	13	8	0	CVPG 12,5	0,69	10%	11,2	13,8	8		
(772) Sysmex XN series	13,0	0,15	1,1	6	0	CVPG 13	0,031	10%	11,7	14,3	6		
Other				18	0	3x 737, 1x 741, 2x 748, 3x 765, 2x 766, 3x 771, 3x 773, 1x 999					15		
Sample B	14,1	2,0	14	59							56	51	91%
(749) Sysmex XE, XS, XT series	15,2	0,62	4,1	20	0	CVPG 15,1	0,19	10%	13,5	16,7	20		
(755) Sysmex KX series	10,3	0,30	2,9	7	0	CVPG 10,2	0,20	10%	9,18	11,3	7		
(768) MINDRAY BC 5xxx series	13,6	1,8	13	8	0	CVPG 13,4	0,78	10%	12	14,8	8		
(772) Sysmex XN series	14,4	0,37	2,6	6	0	CVPG 14,3	0,067	10%	12,8	15,8	6		
Other				18	1	3x 737, 1x 741, 2x 748, 3x 765, 2x 766, 3x 771, 3x 773, 1x 999					15		
(157) MPV [fL]				64							63	60	95%
Samples and groups -													
Sample A	10,1	0,67	6,6	64							63	61	97%
(1) Automate; (63) Sysmex	10,2	0,41	4,0	40	0	CVPG 10,6	0,071	18%	8,69	12,6	40		

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Test	[unit]	RoM	SD	CV [%]	N_{tot}	N_{out}	Comparability	AV	U_{AV}	D_{max}	LL	UL	N_{eva}	N_{suc}	S_{rel}
(157) MPV	[fL]				64								63	60	95%
Samples and groups															
Sample A		10,1	0,67	6,6	64								63	61	97%
(1) Automate; (177) MINDRAY		10,4	1,3	12	13	0	CVPG	10,1	0,38	18%	8,28	12	13		
Other					11	0	3x 1/12, 1x 1/157, 3x 1/179, 1x 1/999, 3x 2/1						10		
Sample B		9,96	0,54	5,4	64								63	61	97%
(1) Automate; (63) Sysmex		9,95	0,38	3,8	40	0	CVPG	10	0,040	18%	8,2	11,8	40		
(1) Automate; (177) MINDRAY		10,2	0,71	7,0	13	0	CVPG	9,71	0,32	18%	7,96	11,5	13		
Other					11	1	3x 1/12, 1x 1/157, 3x 1/179, 1x 1/999, 3x 2/1						10		
(158) PDW [%]	[%]				6								6	5	83%
Samples and groups															
Sample A		29,1	17	59	6								6	6	100%
Other					6	0	3x 12, 1x 157, 2x 179						6		
Sample B		31,1	21	67	6								6	5	83%
Other					6	1	3x 12, 1x 157, 2x 179						6		
(165) PDW [fL]	[fL]				41								41	39	95%
Samples and groups															
Sample A		12,2	0,92	7,5	41		CVP	12,1	0,14	15%	10,2	14	41	39	95%
All results		12,2	0,92	7,5	41	0							41		
Sample B		12,1	0,73	6,0	41		CVP	11,8	0,092	15%	10	13,6	41	40	98%
All results		12,1	0,73	6,0	41	0							41		
(166) PDW [-]	[-]				12								12	12	100%
Samples and groups															
Sample A		17,1	1,1	6,2	12								12	12	100%
(177) MINDRAY		16,8	0,65	3,9	10	0	CVPG	16,3	0,26	15%	13,8	18,8	10		
Other					2	0	2x 1						2		
Sample B		16,4	0,34	2,0	12								12	12	100%
(177) MINDRAY		16,3	0,28	1,7	10	0	CVPG	16	0,16	15%	13,6	18,4	10		
Other					2	0	2x 1						2		