Summary statistics - quantitative results

EQA round: T05/23 - Blood count - new parameters (study)

Deadline: 19.5.2023

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

RoM = robust average
SD = standard deviation
CV = coefficient of variation
N_{tot} = total number of the results
N_{out} = number of the results removed before calculation
AV = assigned value
CVP = consensus of all participants
CVPG = consensus of the participants' groups
U_{AV} = expanded uncertainty of the assigned value (k = 2)
D_{max} = acceptable difference
LL = lower limit
UL = upper limit
N_{eva} = number of the results assessed
N_{suc} = number of successful results
S_{rel} = relative success

Test / Sample / Group	[unit]	RoM	SD	CV [%]	N_{tot}	N_{out}	Comparability	AV	U_{AV}	D_{max}	LL	UL	N_{eva}	N_{suc}	S_{rel} [%]
(120) **Reticulocyte count**	[$\cdot 10^9$/L]				48								48	44	92
Sample A		100	17	17	48		CVP	100	6,1	45%	55	145	48	48	100
(737) Siemens Advia 120, 2120, 2120i		118	6,7	5,7	5	0							5		
(771) MINDRAY BC 6xxx series		119	11	8,9	11	0							11		
(772) Sysmex XN series		94,7	7,2	7,6	25	0							25		
Other					7	0							7		
							1x 749, 1x 763, 1x 766, 4x 773								
Sample B		90,3	20	23	48		CVP	90,3	7,2	45%	49,6	131	48	44	92
(737) Siemens Advia 120, 2120, 2120i		151	12	8,1	5	0							5		
(771) MINDRAY BC 6xxx series		74,5	11	14	11	0							11		
(772) Sysmex XN series		97	8,5	8,7	25	0							25		
Other					7	0							7		
							1x 749, 1x 763, 1x 766, 4x 773								
(126) **Immature reticulocyte fraction**	[%]				38								38	33	87
Sample A		12,4	2,3	19	38		CVP	12,4	0,93	45%	6,82	18	38	34	89
(771) MINDRAY BC 6xxx series		13,3	2,4	18	9	0							9		
(772) Sysmex XN series		11,8	1,4	12	22	0							22		
Other					7	0							7		
							1x 737, 1x 749, 1x 763, 1x 766, 3x 773								
Sample B		7,81	2,2	28	38		CVP	7,81	0,87	45%	4,29	11,4	38	33	87
(771) MINDRAY BC 6xxx series		8,8	2,4	27	9	0							9		
(772) Sysmex XN series		7,09	1,3	18	22	0							22		
Other					7	0							7		
							1x 737, 1x 749, 1x 763, 1x 766, 3x 773								
(127) **Mean reticulocyte volume**	[fL]				8								8	7	88
Sample A													8	7	88
Other					8	1							8		
							3x 737, 1x 772, 4x 773								
Sample B													8	7	88
Other					8	1							8		
							3x 737, 1x 772, 4x 773								
(128) **Mean amount of hemoglobin in reticulocytes**	[pg]				40								40	34	85
Sample A		34,6	2,5	7,3	40		CVP	34,6	0,98	10%	31,1	38,1	40	34	85
(771) MINDRAY BC 6xxx series		30,6	2,5	8,1	10	0							10		
(772) Sysmex XN series		36,2	0,84	2,3	23	0							23		
Other					7	0							7		
							4x 737, 1x 749, 1x 763, 1x 766								
Sample B		32,4	2,2	6,7	40		CVP	32,4	0,85	10%	29,1	35,7	40	35	88
(771) MINDRAY BC 6xxx series		29,1	2,2	7,4	10	0							10		
(772) Sysmex XN series		33,7	0,77	2,3	23	0							23		
Other					7	0							7		
							4x 737, 1x 749, 1x 763, 1x 766								
(129) **Immature platelet fraction**	[%]				24								23	19	83
Sample A		5,07	2,7	53	24								23	20	87
(63) Sysmex; (772) Sysmex XN series		7,65	0,37	4,8	9	0	CVPG	7,65	0,46	40%	4,59	10,8	9		
(177) Mindray; (771) MINDRAY BC 6xxx series		3,2	1	31	11	0	CVPG	3,25	0,71	40%	1,95	4,55	11		
Other					4	0							3		
							1x 1/763, 1x 177/766, 2x 177/999								
Sample B		4,14	3,7	89	24								23	20	87
(63) Sysmex; (772) Sysmex XN series		7,55	1,1	15	9	0	CVPG	7,55	1,4	40%	4,53	10,6	9		
(177) Mindray; (771) MINDRAY BC 6xxx series		1,35	0,32	24	11	0	CVPG	1,47	0,32	40%	0,882	2,06	11		
Other					4	0							3		
							1x 1/763, 1x 177/766, 2x 177/999								