

EQA round: KO4/24 - Blood Count

Deadline: 21.6.2024

Setup: Slovakia; minimal size of the groups n = 5

RoM = robust average	AV = assigned value	D _{max} = 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 _{tot} = total number of the results	U _{AV} = expanded uncertainty of the assigned value (k = 2)	N _{eva} = number of the results assessed
N _{out} = number of the results removed before calculation		N _{suc} = number of successful results
		S _{rel} = relative success

Test Sample Group	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability					N _{eva}	N _{suc}	S _{rel} [%]
							AV	U _{AV}	D _{max}	LL	UL			
(150) WBC	[·10 ⁹ /L]				55							55	55	100
Sample A												55	55	100
All results		5,2	0,22	4,3	55	0	CVP	5,22	0,037	15%	4,43	6,01	55	
Sample B												55	55	100
All results		4,85	0,19	4	55	0	CVP	4,88	0,035	15%	4,14	5,62	55	
(151) RBC	[·10 ¹² /L]				55							55	54	98
Sample A												55	55	100
All results		4,21	0,071	1,7	55	0	CVP	4,21	0,013	7%	3,91	4,51	55	
Sample B												55	54	98
All results		4,08	0,09	2,2	55	0	CVP	4,09	0,014	7%	3,8	4,38	55	
(152) Haemoglobin	[g/L]				55							55	55	100
Sample A												55	55	100
All results		126	1,9	1,5	55	0	CVP	127	0,38	6%	119	135	55	
Sample B												55	55	100
All results		125	2,1	1,7	55	0	CVP	125	0,39	6%	117	133	55	
(153) HCT	[-]				54							54	52	96
Sample A												54	53	98
All results		0,407	0,017	4,1	54	0	CVP	0,418	0,004	10%	0,376	0,46	54	
Sample B												54	52	96
All results		0,392	0,016	4	54	0	CVP	0,403	0,003	10%	0,362	0,444	54	
(154) MCV	[fL]				55							55	54	98
Sample A												55	55	100
All results		97,2	3,4	3,5	55	0	CVP	99,5	0,73	10%	89,5	110	55	
Sample B												55	54	98
All results		96,5	3	3,1	55	0	CVP	98,6	0,66	10%	88,7	109	55	
(156) RDW	[%]				50							49	49	100
Sample A												49	49	100
(63) Sysmex		15,4	0,43	2,8	50							49	49	100
(177) Mindray		15,3	0,29	1,9	11	0	CVPG	15,4	0,075	10%	13,8	17	11	
Other		15,4	0,41	2,6	33	0	CVPG	15,5	0,13	10%	13,9	17,1	33	
					6	0						5		
								1x 1, 4x 12, 1x 999						
Sample B												49	49	100
(63) Sysmex		14,6	0,37	2,6	50							49	49	100
(177) Mindray		14,5	0,26	1,8	11	0	CVPG	14,5	0,067	10%	13	16	11	
Other		14,6	0,37	2,5	33	0	CVPG	14,6	0,13	10%	13,1	16,1	33	
					6	0						5		
								1x 1, 4x 12, 1x 999						
(155) Platelets	[·10 ⁹ /L]				55							55	53	96
Sample A												55	54	98
All results		224	11	5,1	55	0	CVP	225	2,1	18%	184	266	55	
Sample B												55	54	98
All results		204	11	5,2	55	0	CVP	205	1,9	18%	168	242	55	
(157) MPV	[fL]				54							53	52	98
Sample A												53	52	98
(63) Sysmex		11	0,82	7,5	54							53	52	98
(177) Mindray		11,1	0,42	3,8	13	0	CVPG	11	0,13	18%	9,02	13	13	
Other		11,2	0,77	6,9	35	0	CVPG	11,2	0,31	18%	9,18	13,3	35	
					6	0						5		
								1x 1, 4x 12, 1x 999						
Sample B												53	52	98
(63) Sysmex		10,6	0,71	6,7	54							53	52	98
(177) Mindray		10,7	0,37	3,4	13	0	CVPG	10,7	0,11	18%	8,77	12,7	13	
Other		10,7	0,66	6,2	35	0	CVPG	10,7	0,27	18%	8,77	12,7	35	
					6	0						5		
								1x 1, 4x 12, 1x 999						
(129) Immature platelet fraction	[%]				8							8	6	75
Sample A												8	6	75
(177) Mindray		4,55	3,2	70	8	0	CVPG	3,1	1,1	40%	1,86	4,34	8	
Sample B												8	6	75
(177) Mindray		5,75	3,3	58	8	0	CVPG	4,05	1	40%	2,43	5,67	8	
(158) PDW [%]	[%]				1							0		
Sample A												0		
Other					1	0						0		
								1x 176						
Sample B												0		
Other					1	0						0		
								1x 176						

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							AV	U _{AV}	D _{max}	LL	UL			
(165) PDW [fL]	[fL]				11							11	9	82
Sample A												11	9	82
All results		13,7	1,7	12	11	0	CVP	13,2	0,35	15%	11,2	15,2	11	
Sample B												11	9	82
All results		12,4	1,3	10	11	0	CVP	12,1	0,35	15%	10,2	14	11	
(166) PDW [-]	[-]				28							28	28	100
Sample A												28	28	100
All results		16,4	0,18	1,1	28	0	CVP	16,3	0,075	15%	13,8	18,8	28	
Sample B												28	28	100
All results		16,4	0,24	1,4	28	0	CVP	16,4	0,09	15%	13,9	18,9	28	
(160) Neutrophiles	[·10 ⁹ /L]				47							46	46	100
Sample A		2,13	0,14	6,6	47							46	46	100
All results (without individual groups)		2,14	0,13	6,2	46	0	CVP	2,11	0,024	25%	1,58	2,64	46	
Other					1	0							0	
							1x 765							
Sample B		2,35	0,14	6,1	47							46	46	100
All results (without individual groups)		2,35	0,13	5,7	46	0	CVP	2,35	0,023	25%	1,76	2,94	46	
Other					1	0							0	
							1x 765							
(161) Lymphocytes	[·10 ⁹ /L]				48							47	47	100
Sample A		2,61	0,12	4,8	48							47	47	100
All results (without individual groups)		2,6	0,12	4,6	47	0	CVP	2,6	0,023	25%	1,95	3,25	47	
Other					1	0							0	
							1x 765							
Sample B		2,11	0,09	4,3	48							47	47	100
All results (without individual groups)		2,11	0,086	4,1	47	0	CVP	2,11	0,02	25%	1,58	2,64	47	
Other					1	0							0	
							1x 765							
(162) Monocytes	[·10 ⁹ /L]				47							47	42	89
Sample A												47	42	89
All results		0,298	0,089	30	47	0	CVP	0,363	0,022	50%	0,181	0,545	47	
Sample B												47	46	98
All results		0,316	0,073	23	47	0	CVP	0,36	0,018	50%	0,18	0,54	47	
(163) Eosinophils	[·10 ⁹ /L]				47							47	37	79
Sample A												47	45	96
All results		0,134	0,022	16	47	0	CVP	0,134	0,004	50%	0,067	0,201	47	
Sample B												47	37	79
All results		0,065	0,02	31	47	0	CVP	0,06	0,003	50%	0,03	0,09	47	
(164) Basophiles	[·10 ⁹ /L]				47							47	47	100
Sample A												47	47	100
All results		0,034	0,026	76	47	0	CVP	0,042	0,004	asym.	0	0,157	47	
Sample B												47	47	100
All results		0,015	0,014	91	47	0	CVP	0,022	0,003	asym.	0	0,147	47	