

EQA round: KO2/25 - Blood Count

Deadline: 11.4.2025

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]				34							34	33	97
Sample A												34	34	100
All results		5,85	0,26	4,5	34	0	CVP	5,91	0,041	15%	5,02	6,8	34	
Sample B												34	33	97
All results		7,5	0,39	5,2	34	0	CVP	7,64	0,056	15%	6,49	8,79	34	
(151) RBC	[·10 ¹² /L]				34							34	33	97
Sample A												34	33	97
All results		3,88	0,094	2,4	34	0	CVP	3,85	0,012	7%	3,58	4,12	34	
Sample B												34	33	97
All results		3,78	0,086	2,3	34	0	CVP	3,75	0,012	7%	3,48	4,02	34	
(152) Haemoglobin	[g/L]				34							34	32	94
Sample A												34	32	94
All results		108	1,9	1,8	34	1	CVP	108	0,33	6%	101	115	34	
Sample B												34	32	94
All results		129	1,8	1,4	34	1	CVP	129	0,34	6%	121	137	34	
(153) HCT	[-]				34							34	34	100
Sample A												34	34	100
All results		0,346	0,014	4	34	0	CVP	0,348	0,002	10%	0,313	0,383	34	
Sample B												34	34	100
All results		0,397	0,014	3,6	34	0	CVP	0,396	0,002	10%	0,356	0,436	34	
(154) MCV	[fL]				34							34	34	100
Sample A												34	34	100
All results		89,3	3,1	3,5	34	0	CVP	90,4	0,47	10%	81,3	99,5	34	
Sample B												34	34	100
All results		105	3	2,9	34	0	CVP	106	0,45	10%	95,4	117	34	
(156) RDW	[%]				33							32	30	94
Sample A												32	31	97
(63) Sysmex		17,9	0,25	1,4	10	0	CVPG	17,8	0,055	10%	16	19,6	10	
(177) Mindray		18,5	0,77	4,1	21	0	CVPG	18,5	0,23	10%	16,6	20,4	21	
Other					2	0							1	
								1x 157, 1x 179						
Sample B												32	31	97
(63) Sysmex		12,7	0,16	1,3	10	0	CVPG	12,6	0,049	10%	11,3	13,9	10	
(177) Mindray		12,6	0,34	2,7	21	0	CVPG	12,6	0,15	10%	11,3	13,9	21	
Other					2	0							1	
								1x 157, 1x 179						
(155) Platelets	[·10 ⁹ /L]				34							34	33	97
Sample A												34	34	100
All results		284	15	5,2	34	0	CVP	282	2,3	18%	231	333	34	
Sample B												34	33	97
All results		247	13	5,3	34	0	CVP	245	2,1	18%	200	290	34	
(157) MPV	[fL]				33							32	32	100
Sample A												32	32	100
(63) Sysmex		10,7	0,21	2	10	0	CVPG	10,5	0,071	18%	8,61	12,4	10	
(177) Mindray		10,2	0,79	7,7	21	0	CVPG	10,2	0,3	18%	8,36	12,1	21	
Other					2	0							1	
								1x 157, 1x 179						
Sample B												32	32	100
(63) Sysmex		9,91	0,26	2,6	10	0	CVPG	9,73	0,049	18%	7,97	11,5	10	
(177) Mindray		9,5	0,61	6,4	21	0	CVPG	9,43	0,23	18%	7,73	11,2	21	
Other					2	0							1	
								1x 157, 1x 179						
(129) Immature platelet fraction	[%]				4							4	3	75
Sample A												4	3	75
Other		16,3	21	130	4	0						4		
								2x 63, 2x 177						
Sample B												4	3	75
Other		12,2	16	130	4	0						4		
								2x 63, 2x 177						
(158) PDW [%]	[%]				2							0		
Sample A												0		
Other		25,9	10	40	2	0						0		
								1x 149, 1x 157						

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							AV	U _{AV}	D _{max}	LL	UL			
Sample B		29,5	13	43	2							0		
Other					2	0						0		
							1x 149, 1x 157							
(165) PDW [fL]	[fL]				10							10	9	90
Sample A												10	9	90
All results		12,3	0,43	3,5	10	0	CVP	11,9	0,15	15%	10,1	13,7	10	
Sample B												10	9	90
All results		10,7	0,54	5	10	0	CVP	10,2	0,13	15%	8,67	11,8	10	
(166) PDW [-]	[-]				14							14	14	100
Sample A												14	14	100
All results		15,6	0,16	1	14	0	CVP	15,7	0,094	15%	13,3	18,1	14	
Sample B												14	14	100
All results		15,8	0,077	0,49	14	0	CVP	15,8	0,062	15%	13,4	18,2	14	
(160) Neutrophiles	[·10 ⁹ /L]				26							26	25	96
Sample A												26	26	100
All results		3,08	0,17	5,4	26	0	CVP	3,06	0,028	25%	2,29	3,83	26	
Sample B												26	25	96
All results		4,52	0,32	7,1	26	1	CVP	4,55	0,046	25%	3,41	5,69	26	
(161) Lymphocytes	[·10 ⁹ /L]				26							26	25	96
Sample A												26	26	100
All results		2,19	0,14	6,3	26	0	CVP	2,23	0,02	25%	1,67	2,79	26	
Sample B												26	25	96
All results		2,36	0,16	6,7	26	0	CVP	2,4	0,025	25%	1,8	3	26	
(162) Monocytes	[·10 ⁹ /L]				26							26	25	96
Sample A												26	26	100
All results		0,397	0,068	17	26	0	CVP	0,434	0,012	50%	0,217	0,651	26	
Sample B												26	25	96
All results		0,529	0,11	20	26	1	CVP	0,553	0,015	50%	0,276	0,83	26	
(163) Eosinophils	[·10 ⁹ /L]				26							26	25	96
Sample A												26	25	96
All results		0,155	0,028	18	26	0	CVP	0,152	0,004	50%	0,076	0,228	26	
Sample B												26	25	96
All results		0,111	0,014	12	26	1	CVP	0,111	0,003	50%	0,055	0,167	26	
(164) Basophiles	[·10 ⁹ /L]				26							26	26	100
Sample A												26	26	100
All results		0,035	0,018	50	26	0	CVP	0,046	0,005	asym.	0	0,178	26	
Sample B												26	26	100
All results		0,039	0,023	60	26	0	CVP	0,058	0,007	asym.	0	0,23	26	