

EQA round: KO2/24 - Blood Count

Deadline: 12.4.2024

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]				31							31	29	94
Sample A												31	29	94
All results		4,54	0,15	3,3	31	0	CVP	4,63	0,034	15%	3,93	5,33	31	
Sample B												31	31	100
All results		5,76	0,25	4,4	31	0	CVP	5,89	0,046	15%	5	6,78	31	
(151) RBC	[·10 ¹² /L]				31							31	31	100
Sample A												31	31	100
All results		3,86	0,079	2	31	0	CVP	3,87	0,011	7%	3,59	4,15	31	
Sample B												31	31	100
All results		3,64	0,082	2,3	31	0	CVP	3,64	0,012	7%	3,38	3,9	31	
(152) Haemoglobin	[g/L]				31							31	31	100
Sample A												31	31	100
All results		124	1,7	1,3	31	0	CVP	123	0,35	6%	115	131	31	
Sample B												31	31	100
All results		126	1,8	1,4	31	0	CVP	125	0,35	6%	117	133	31	
(153) HCT	[-]				31							31	30	97
Sample A												31	31	100
All results		0,394	0,015	3,8	31	0	CVP	0,393	0,002	10%	0,353	0,433	31	
Sample B												31	30	97
All results		0,398	0,014	3,6	31	0	CVP	0,393	0,002	10%	0,353	0,433	31	
(154) MCV	[fL]				31							31	31	100
Sample A												31	31	100
All results		102	3,5	3,5	31	0	CVP	102	0,51	10%	91,8	113	31	
Sample B												31	31	100
All results		109	4	3,6	31	0	CVP	108	0,56	10%	97,2	119	31	
(156) RDW	[%]				31							31	31	100
Sample A		13,9	0,46	3,3	31							31	31	100
(63) Sysmex		13,7	0,24	1,8	13	0	CVPG	13,6	0,044	10%	12,2	15	13	
(177) Mindray		14,2	0,64	4,5	16	0	CVPG	14,2	0,29	10%	12,7	15,7	16	
Other					2	0							2	
							1x 1, 1x 12							
Sample B		13,3	0,36	2,7	31							31	31	100
(63) Sysmex		13,2	0,36	2,7	13	0	CVPG	12,8	0,042	10%	11,5	14,1	13	
(177) Mindray		13,4	0,36	2,7	16	0	CVPG	13,4	0,23	10%	12	14,8	16	
Other					2	0							2	
							1x 1, 1x 12							
(155) Platelets	[·10 ⁹ /L]				31							31	31	100
Sample A												31	31	100
All results		255	11	4,4	31	0	CVP	252	2,1	18%	206	298	31	
Sample B												31	31	100
All results		249	11	4,5	31	0	CVP	246	2	18%	201	291	31	
(157) MPV	[fL]				31							31	31	100
Sample A		10,2	0,64	6,3	31							31	31	100
(63) Sysmex		10,3	0,43	4,2	13	0	CVPG	10	0,082	18%	8,2	11,8	13	
(177) Mindray		10,2	0,7	6,8	16	0	CVPG	9,93	0,34	18%	8,14	11,8	16	
Other					2	0							2	
							1x 1, 1x 12							
Sample B		9,93	0,49	4,9	31							31	31	100
(63) Sysmex		10,1	0,29	2,8	13	0	CVPG	9,74	0,064	18%	7,98	11,5	13	
(177) Mindray		9,84	0,52	5,2	16	0	CVPG	9,63	0,26	18%	7,89	11,4	16	
Other					2	0							2	
							1x 1, 1x 12							
(129) Immature platelet fraction	[%]				6							6	5	83
Sample A		2,6	0,44	17	6							6	5	83
(177) Mindray		2,6	0,44	17	5	0	CVPG	2,65	0,72	40%	1,59	3,71	5	
Other					1	0							1	
							1x 63							
Sample B		1,5	0,15	9,9	6							6	6	100
(177) Mindray		1,5	0,15	9,9	5	0	CVPG	1,5	0,21	40%	0,9	2,1	5	
Other					1	0							1	
							1x 63							
(165) PDW [fL]	[fL]				10							10	9	90
Sample A												10	9	90
All results		11,4	1,1	9,4	10	0	CVP	10,9	0,2	15%	9,26	12,6	10	

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							AV	U _{AV}	D _{max}	LL	UL				
Sample B													10	9	90
All results		10,8	0,56	5,2	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		16,3	0,15	0,93	14	0	CVP	16,3	0,11	15%	13,8	18,8	14		
Sample B													14	14	100
All results		15,8	0,12	0,76	14	0	CVP	15,8	0,084	15%	13,4	18,2	14		
(160) Neutrophils	[·10 ⁹ /L]				23								22	19	86
Sample A		2,59	0,23	9	23								22	20	91
All results (without individual groups)		2,59	0,23	9	22	0	CVP	2,51	0,03	25%	1,88	3,14	22		
Other					1	1							0		
							1x 765								
Sample B		3	0,25	8,4	23								22	20	91
All results (without individual groups)		3,02	0,22	7,4	22	1	CVP	3,03	0,03	25%	2,27	3,79	22		
Other					1	0							0		
							1x 765								
(161) Lymphocytes	[·10 ⁹ /L]				23								22	21	95
Sample A		1,52	0,1	6,6	23								22	21	95
All results (without individual groups)		1,52	0,092	6	22	0	CVP	1,57	0,019	25%	1,17	1,97	22		
Other					1	0							0		
							1x 765								
Sample B		2,37	0,12	5	23								22	21	95
All results (without individual groups)		2,36	0,11	4,7	22	0	CVP	2,41	0,021	25%	1,8	3,02	22		
Other					1	0							0		
							1x 765								
(162) Monocytes	[·10 ⁹ /L]				23								13	12	92
Sample A		0,268	0,13	49	23								13	12	92
All results (without individual groups)		0,353	0,073	21	13	0	CVP	0,448	0,014	50%	0,224	0,672	13		
(177) Mindray		0,162	0,085	53	10	0	CVPG	0,235	0,078	50%	0,117	0,353	0		
Sample B		0,246	0,13	54	23								13	12	92
All results (without individual groups)		0,335	0,062	19	13	0	CVP	0,387	0,011	50%	0,193	0,581	13		
(177) Mindray		0,134	0,063	47	10	0	CVPG	0,195	0,065	50%	0,097	0,293	0		
(163) Eosinophils	[·10 ⁹ /L]				23								23	23	100
Sample A					23								23	23	100
All results		0,11	0,015	14	23	0	CVP	0,118	0,004	50%	0,059	0,177	23		
Sample B					23								23	23	100
All results		0,106	0,019	17	23	0	CVP	0,108	0,003	50%	0,054	0,162	23		
(164) Basophiles	[·10 ⁹ /L]				23								22	20	91
Sample A		0,058	0,044	77	23								22	20	91
All results (without individual groups)		0,052	0,038	73	22	0	CVP	0,061	0,007	asym.	0	0,139	22		
Other					1	0							0		
							1x 765								
Sample B		0,045	0,046	100	23								22	22	100
All results (without individual groups)		0,041	0,042	100	22	0	CVP	0,053	0,008	asym.	0	0,177	22		
Other					1	0							0		
							1x 765								