

EQA round: KO3/24 - Blood Count

Deadline: 17.5.2024

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]				44							44	43	98
Sample A												44	44	100
All results		4,3	0,19	4,4	44	0	CVP	4,33	0,031	15%	3,68	4,98	44	
Sample B												44	43	98
All results		7,91	0,31	3,9	44	0	CVP	7,95	0,051	15%	6,75	9,15	44	
(151) RBC	[·10 ¹² /L]				44							44	42	95
Sample A												44	44	100
All results		3,48	0,072	2,1	44	0	CVP	3,46	0,011	7%	3,21	3,71	44	
Sample B												44	42	95
All results		4,54	0,11	2,4	44	0	CVP	4,55	0,013	7%	4,23	4,87	44	
(152) Haemoglobin	[g/L]				44							44	43	98
Sample A												44	43	98
All results		102	1,7	1,6	44	0	CVP	103	0,31	6%	96,8	110	44	
Sample B												44	43	98
All results		110	1,5	1,4	44	0	CVP	111	0,3	6%	104	118	44	
(153) HCT	[-]				44							44	43	98
Sample A												44	43	98
All results		0,336	0,012	3,7	44	0	CVP	0,343	0,002	10%	0,308	0,378	44	
Sample B												44	44	100
All results		0,365	0,014	3,9	44	0	CVP	0,372	0,002	10%	0,334	0,41	44	
(154) MCV	[fL]				44							44	42	95
Sample A												44	42	95
All results		96,9	3,4	3,5	44	1	CVP	98,9	0,6	10%	89	109	44	
Sample B												44	43	98
All results		80,4	2,6	3,3	44	0	CVP	81,8	0,44	10%	73,6	90	44	
(156) RDW	[%]				39							38	35	92
Sample A												38	36	95
(63) Sysmex		15	0,41	2,8	14	0	CVPG	15,2	0,052	10%	13,6	16,8	14	
(177) Mindray		15,5	0,64	4,1	19	2	CVPG	15,7	0,22	10%	14,1	17,3	19	
Other					6	0							5	
							4x 12, 1x 149, 1x 157							
Sample B												38	35	92
(63) Sysmex		15,6	0,55	3,5	39									
(177) Mindray		15,4	0,22	1,5	14	0	CVPG	15,4	0,044	10%	13,8	17	14	
Other		15,6	0,43	2,7	19	2	CVPG	15,7	0,11	10%	14,1	17,3	19	
					6	0							5	
							4x 12, 1x 149, 1x 157							
(155) Platelets	[·10 ⁹ /L]				44							44	43	98
Sample A												44	44	100
All results		198	9,8	4,9	44	0	CVP	200	1,7	18%	164	236	44	
Sample B												44	43	98
All results		220	17	7,5	44	0	CVP	224	2,3	18%	183	265	44	
(157) MPV	[fL]				39							39	37	95
Sample A												39	38	97
(63) Sysmex		11,3	0,72	6,4	39									
(177) Mindray		11,6	0,24	2,1	14	0	CVPG	11,5	0,066	18%	9,43	13,6	14	
Other		11,4	0,82	7,2	19	0	CVPG	11,5	0,24	18%	9,43	13,6	19	
					6	0							6	
							4x 12, 1x 157, 1x 179							
Sample B												39	38	97
(63) Sysmex		11	1	9,4	39									
(177) Mindray		11,4	0,43	3,8	14	0	CVPG	11,3	0,11	18%	9,26	13,4	14	
Other		11,2	1	9,2	19	0	CVPG	11,2	0,31	18%	9,18	13,3	19	
					6	0							6	
							4x 12, 1x 157, 1x 179							
(129) Immature platelet fraction	[%]				5							5	3	60
Sample A												5	4	80
Other					5	0						5		
							1x 63, 4x 177							
Sample B												5	3	60
Other					5	0						5		
							1x 63, 4x 177							
(158) PDW [%]	[%]				2							1	1	100
Sample A												1	1	100
Other					2	0						1		
							1x 149, 1x 157							

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							AV	U _{AV}	D _{max}	LL	UL				
Sample B Other					2	0						1	1	100	
							1x 149, 1x 157					1			
(165) PDW [fL]	[fL]				13							13	13	100	
Sample A All results		14,3	0,58	4,1	13	0	CVP	14,2	0,17	15%	12	16,4	13	13	100
Sample B All results		13,1	0,9	6,8	13	0	CVP	13,1	0,21	15%	11,1	15,1	13	13	100
(166) PDW [-]	[-]				16							16	16	100	
Sample A All results		16,4	0,22	1,3	16	0	CVP	16,3	0,1	15%	13,8	18,8	16	16	100
Sample B All results		15,7	0,35	2,2	16	0	CVP	15,7	0,12	15%	13,3	18,1	16	16	100
(160) Neutrophiles	[·10 ⁹ /L]				31							31	31	100	
Sample A All results		2,98	0,14	4,7	31	0	CVP	2,97	0,028	25%	2,22	3,72	31	31	100
Sample B All results		6,29	0,24	3,8	31	0	CVP	6,25	0,047	25%	4,68	7,82	31	31	100
(161) Lymphocytes	[·10 ⁹ /L]				31							31	30	97	
Sample A All results		0,993	0,054	5,4	31	0	CVP	1,01	0,011	25%	0,757	1,27	31	31	100
Sample B All results		1,01	0,091	9,1	31	0	CVP	1,03	0,013	25%	0,772	1,29	31	30	97
(162) Monocytes	[·10 ⁹ /L]				30							30	27	90	
Sample A All results		0,196	0,061	31	30	0	CVP	0,212	0,008	50%	0,106	0,318	30	27	90
Sample B All results		0,57	0,099	17	30	0	CVP	0,603	0,015	50%	0,301	0,905	30	28	93
(163) Eosinophils	[·10 ⁹ /L]				30							30	27	90	
Sample A All results		0,123	0,017	14	30	0	CVP	0,122	0,003	50%	0,061	0,183	30	29	97
Sample B All results		0,085	0,013	15	30	0	CVP	0,082	0,002	50%	0,041	0,123	30	27	90
(164) Basophiles	[·10 ⁹ /L]				30							30	29	97	
Sample A All results		0,039	0,021	55	30	0	CVP	0,049	0,004	asym.	0	0,13	30	29	97
Sample B All results		0,02	0,011	56	30	0	CVP	0,026	0,002	asym.	0	0,239	30	30	100