PROFICIENCY TESTING REPORT

ISHTM-AIIMS EXTERNAL QUALITY ASSURANCE PROGRAMME

NABL accredited program as per ISO/IEC 17043:2010 standard

Organized By Department of Hematology, AIIMS, New Delhi-110029

PC-1002

Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No. : 2793 **Distribution No.:** 157-G **Month/Year:** September/2022

Instrument ID: 110YAX2103536

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,
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Date of issue & status of the report: 07-11-2022[Final].

CBC and Retic Assessment

Test Parameters	S.No.			Among Lab (Accuracy Testing)				Within Lab (Precision Testing)			
		Your Result 1	Your Result 2	Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score	Yours Results Diff. of 2 Values	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score
WBC x10^3/µl	1	4.39	4.34	8.73	9.2	0.0320	**-0.63**	0.05	0.1	0.0080	**-0.42**
RBC x10^6/µl	1	4.68	4.67	9.35	9.33	0.0120	**0.07**	0.01	0.04	0.0030	**-0.81**
Hb g/dl	1	12.4	12.3	24.7	24.9	0.0310	**-0.30**	0.1	0.1	0.0090	**0.00**
HCT%	1	39.5	39.4	78.9	79.5	0.2200	**-0.11**	0.1	0.4	0.0280	**-0.81**
MCV-fl	1	84.7	84.3	169	170.4	0.3660	**-0.16**	0.4	0.3	0.0270	**0.22**
MCH-Pg	1	26.6	26.3	52.9	53.2	0.0790	**-0.18**	0.3	0.2	0.0180	**0.45**
MCHC-g/dl	1	31.4	31.2	62.6	62.4	0.1810	**0.04**	0.2	0.3	0.0210	**-0.34**
Plt. x10^3/µl	1	186	177	363	370	1.48	**-0.22**	9	6	0.39	**0.58**
Retic %	2	7.2	7	14.2	9.8	0.21	**0.85**	0.2	0.4	0.03	**-0.67**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly=62 L=28, E=09, Mono/Promono=01 , B1= P.M.=, Mye=, Meta=, Other=	Poly: 42-56 , Lympho: 28-40,Eosino: 5-12 , Mono: 2-5, blast/Promyelo/Myelo/Meta: 0
RBC Morphology	3	MODERATE ANISOPOIKILOCYTOSIS REVEALING MICROCYTIC HYPOCHROMIC CELLS,FEW TARGET CELLS AND SOME CRESCENT SHAPED (? SICKLE) RBC's.	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Poikilocytosis , Target cells , Sickle shaped cells ,tear drop cells
Diagnosis	3	? SICKLE CELL ANEMIA.	Hemoglobinopathy possible sickle cell anemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 157--G	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3	
				Among labs	Within lab	Among labs	Within lab	Among labs	Within lab
WBC x10^3/µl	1	244	243	83.54	88.89	2.06	3.7	14.4	7.41
RBC x10^6/µl	1	244	244	87.7	86.48	4.51	4.1	7.79	9.42
Hb g/dl	1	244	244	87.3	84.43	8.2	7.79	4.5	7.78
HCT%	1	244	243	92.18	87.65	6.17	6.17	1.65	6.18
MCV-fl	1	244	243	90.95	90.95	7.82	4.12	1.23	4.93
MCH-Pg	1	244	243	86.42	90.95	5.35	2.06	8.23	6.99
MCHC-g/dl	1	244	243	95.06	86.42	3.29	4.12	1.65	9.46
Plt. x10^3/µl	1	244	243	86.01	87.24	7	4.53	6.99	8.23
ReticCount%	2	244	224	95.54	94.2	4.02	2.23	0.44	3.57
PS Assessment	3	244	224	Satisfactory :88.13%, Borderline Sat. :10.65%, Unsatisfactory :1.22%					

*Comments:

1). Among Lab (EQA) : Results acceptable.

2). Within Lab (IQA) : Precision acceptable.

Note-1: EQA (External Quality Assurance) : Your Performance among various of participating labs in PT, to determine the accuracy of your results.
IQA (Internal Quality Assurance) : Your Performance of comparison of two consecutive measurement values within your lab to test the precision of your autoanalyzer.

Note-2: Z score among & within lab were calculated, as per to ISO/IEC 13528:2015 standard. Z score among lab (EQA)= (Your Result Sum of two values – Consensus Result sum of two values)/(Normalised IQR)
Z score within lab (IQA)= (Your Result Difference of two values – Consensus Result difference of two values)/(Normalised IQR)
IQR = Quartile 3 - Quartile 1 of participant data, Normalised IQR = 0.7413 x IQR

Note-3: Z score 0 to ±2: Acceptable, Z score ±2 to ±3 :Warning Signal, Z score > ±3 : Unacceptable [As per ISO/IEC 13528:2015 standard]

Note-4: Z score value between"0 to ±2" are texted in green colour. Z score value between"±2 to ±3" are texted in orange colour. Z score value > ±3 are texted in red colour.

Note-5: Homogeneity and stability testing of PT sample were done as per ISO 13528:2015 standard. To pass homogeneity test, between sample SD (Ss) should be smaller than the check value (0.3*SDPA). To pass the stability test, average difference in measurement values of first and last day sample ($\bar{x}$-$\bar{y}$) should be smaller than the check value (0.3*SDPA).

Note-6: ISHTM-AIIMS-EQAP does not subcontract any task of its scheme

Note-7: Participants are free to use methods/analyzer of their own choice.

Note-8: Proficiency testing (PT) samples are sent quarterly to each participant.

Note-9: All the necessary details regarding design and implementation of PT, are provided in the instruction sheet as well as on programme's website www.ishtmaiimseqap.com.

Note 10: Reports are kept confidential.

Report authorized by,

Dr. Seema Tyagi (Prof.)
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