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

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

EQAP CODE No. : 5448 **Distribution No.:** 164-N **Month/Year:** August/2024

Instrument ID: AGD **Model Name.:** HT320 **Serial No.:** 600221/00035200261

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi, Tel: 9013085730 , E-Mail : info@ishtmaiimseqap.com

Date of issue & status of the report: 24-09-2024 [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	35.2	35.2	70.4	61.6	0.755	**0.34**	0	0.3	0.025	**-0.67**
RBC x10^6/µl	1	3.56	3.55	7.11	7.59	0.016	**-1.03**	0.01	0.03	0.002	**-0.54**
Hb g/dl	1	10.3	10.2	20.5	21.1	0.038	**-0.45**	0.1	0.1	0.008	**0.00**
HCT%	1	34.4	34.4	68.8	68.8	0.219	**0.00**	0	0.3	0.020	**-1.01**
MCV-fl	1	96.6	96.6	193.2	181.4	0.458	**0.98**	0	0.3	0.024	**-0.81**
MCH-Pg	1	28.9	28.7	57.6	55.6	0.081	**1.00**	0.2	0.2	0.012	**0.00**
MCHC-g/dl	1	29.9	29.7	59.6	61.85	0.187	**-0.43**	0.2	0.3	0.021	**-0.42**
Plt. x10^3/µl	1	172	159	331	335	2.347	**-0.06**	13	7	0.420	**1.01**
Retic %	2	1.5	1.4	2.9	3.05	0.087	**-0.06**	0.1	0.2	0.015	**-0.34**

P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=6 , Poly=24 L=80, E=5, Mono/Promono=7 , B1=12 P.M.=30, Mye=10, Meta=12, Other=Thrombocytopenia	Blast: 20-45, Lympho: 26.25-53, Poly: 10-18, Mono: 1-5 Myelo/Meta/Promyelo/Eos/Baso : 0-5
RBC Morphology	3	Anisocytosis + Microcytes + Mild Hypochromic , TH	Predominantly: Normocytic/ Normochromic, Moderate: Microcytic, Anisopoikilocytosis, Mild: Tear drop cells, Spherocytes
Diagnosis	3	severe acute leukemia	Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 164--N	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	285	283	85.16	91.17	14.84	3.53	0	5.3
RBC $x10^6$/µl	1	285	285	95.44	94.39	3.51	2.46	1.05	3.15
Hb g/dl	1	285	285	98.25	91.23	1.4	3.16	0.35	5.61
HCT%	1	285	284	95.07	88.03	3.52	6.69	1.41	5.28
MCV-fl	1	285	284	93.31	91.9	5.63	2.82	1.06	5.28
MCH-Pg	1	285	284	86.97	75.35	9.15	16.55	3.88	8.1
MCHC-g/dl	1	285	284	96.48	86.27	2.11	4.93	1.41	8.8
Plt. $x10^3$/µl	1	285	285	96.84	88.42	2.46	7.37	0.7	4.21
ReticCount%	2	285	210	90	85.71	6.67	1.43	3.33	12.86
PS Assessment	3	285	212	Satisfactory :82.76%, Borderline Sat. :13.02%, Unsatisfactory :4.22%					

*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. Manoranjan Mahapatra (Prof. & Head)
PT Co-ordinator: ISHTM-AIIMS-EQAP
Department of Hematology, AIIMS, New Delhi

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