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. : 1296 **Distribution No.:** 164-D **Month/Year:** June/2024

Instrument ID: SYSMEX **Model Name.:** SYSMEX XN350 **Serial No.:** 17114

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: 05-08-2024 [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	6.06	5.81	11.87	11.1	0.071	**0.24**	0.25	0.1	0.007	**1.19**
RBC x10^6/µl	1	4.56	4.53	9.09	9.29	0.009	**-0.79**	0.03	0.03	0.002	**0.00**
Hb g/dl	1	13.3	13.3	26.6	27.1	0.026	**-0.75**	0	0.1	0.007	**-1.35**
HCT%	1	41	40.8	81.8	83.45	0.174	**-0.34**	0.2	0.3	0.021	**-0.34**
MCV-fl	1	90.1	89.9	180	180	0.309	**0.00**	0.2	0.2	0.018	**0.00**
MCH-Pg	1	29.4	29.2	58.6	58.3	0.061	**0.18**	0.2	0.2	0.014	**0.00**
MCHC-g/dl	1	32.6	32.4	65	64.45	0.137	**0.14**	0.2	0.3	0.017	**-0.36**
Plt. x10^3/µl	1	101	98	199	174.5	2.468	**0.30**	3	5	0.282	**-0.39**
Retic %	2	17.4	16.4	33.8	27.3	0.473	**0.44**	1	0.7	0.043	**0.58**

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly=12 L=15, E=01, Mono/Promono=04 , B1=55 P.M.=10, Mye=02, Meta=01, Other=	Blast: 45-70, Poly: 08-16, Lympho: 7-16, , Mono: 2-12, Myelo/Meta/Eos/Mono/Promyelo/Baso : 0-5
RBC Morphology	3	mild anisopoikilocytosis,predominantly normocytic normochromic ,few normocytic hypochromic cells	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Macrocytic
Diagnosis	3	acute leukemia	Acute Leukemia - (AML)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 164--D	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	355	352	83.81	87.78	7.67	5.4	8.520	6.82
RBC $x10^6$/µl	1	355	355	90.99	92.39	4.79	3.94	4.22	3.67
Hb g/dl	1	355	355	88.45	90.42	5.35	3.38	6.2	6.2
HCT%	1	355	354	90.11	91.53	5.93	3.67	3.96	4.8
MCV-fl	1	355	354	90.11	92.09	5.37	4.52	4.52	3.39
MCH-Pg	1	355	354	88.7	90.96	5.65	4.24	5.65	4.8
MCHC-g/dl	1	355	354	92.09	87.57	5.93	3.67	1.98	8.76
Plt. $x10^3$/µl	1	355	354	96.05	88.42	2.26	7.06	1.69	4.52
ReticCount%	2	355	331	95.77	80.97	3.63	12.08	0.6	6.95
PS Assessment	3	355	335	Satisfactory :94.33%, Borderline Sat. :1.13%, Unsatisfactory :4.54%					

*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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