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. : 1673 **Distribution No.:** 164-C **Month/Year:** June/2024
Instrument ID: sysmex **Model Name.:** xn350 **Serial No.:** 11321

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: 23-07-2024 [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	6.45	6.28	12.73	16.14	0.281	-0.20	0.17	0.2	0.013	-0.11
RBC x10^6/µl	1	3.68	3.63	7.31	7.43	0.016	-0.27	0.05	0.04	0.002	0.27
Hb g/dl	1	12.3	12.1	24.4	24.4	0.056	0.00	0.2	0.1	0.007	1.35
HCT%	1	38.1	37.6	75.7	76.9	0.269	-0.15	0.5	0.4	0.023	0.27
MCV-fl	1	103.6	103.5	207.1	205.1	0.470	0.15	0.1	0.3	0.022	-0.54
MCH-Pg	1	33.4	33.3	66.7	65.8	0.090	0.40	0.1	0.3	0.017	-0.67
MCHC-g/dl	1	32.3	32.2	64.5	63.8	0.182	0.14	0.1	0.3	0.013	-0.67
Plt. x10^3/µl	1	100	98	198	209	2.172	-0.17	2	5	0.290	-0.58
Retic %	2	9	8.2	17.2	12.6	0.181	0.93	0.8	0.5	0.023	0.67

P.S . Assesment

	YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=11 L=5, E=, Mono/Promono=8 , B1=45 P.M.=29, Mye=2, Meta=0, Other=	Blast: 45-64, Poly: 10-16, Lympho: 9-18, , Mono: 3-13.75, Myelo/Meta/Eos/Mono/Promyelo/Baso : 0-5
RBC Morphology	3	Normocytic normochromic with mild anisocytosis	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Macrocytic
Diagnosis	3	ACUTE LEUKEMIA MYELOID	Acute Leukemia - (AML)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 164--C	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 x10³/µl	1	348	345	82.9	84.35	2.9	4.64	14.2	11.01
RBC x10⁶/µl	1	348	348	86.78	90.52	8.33	4.02	4.89	5.46
Hb g/dl	1	348	348	85.06	90.52	5.46	2.87	9.48	6.61
HCT%	1	348	347	93.95	90.2	4.32	4.61	1.73	5.19
MCV-fl	1	348	347	91.64	93.95	5.76	2.31	2.6	3.74
MCH-Pg	1	348	347	86.46	87.32	5.48	4.61	8.06	8.07
MCHC-g/dl	1	348	347	90.78	89.34	5.48	3.46	3.74	7.2
Plt. x10³/µl	1	348	347	96.25	91.93	2.59	4.61	1.16	3.46
ReticCount%	2	348	321	92.52	91.28	6.85	1.25	0.63	7.47
PS Assessment	3	348	321	Satisfactory :97.15%, Borderline Sat. :1.14%, Unsatisfactory :1.71%					

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,

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