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.:** 163-C **Month/Year:** February/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: 29-04-2024 [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 x10³/µl	1	4.11	4.07	8.18	8.28	0.025	-0.15	0.04	0.1	0.006	-0.67
RBC x10⁶/µl	1	4.06	4.05	8.11	8.36	0.007	-1.20	0.01	0.03	0.002	-0.45
Hb g/dl	1	13.1	13.1	26.2	26.3	0.020	-0.22	0	0.1	0.007	-1.35
HCT%	1	41.5	41.3	82.8	81.5	0.145	0.30	0.2	0.3	0.023	-0.22
MCV-fl	1	102.2	102	204.2	194.6	0.286	1.04	0.2	0.2	0.019	0.00
MCH-Pg	1	32.3	32.3	64.6	62.8	0.054	1.28	0	0.3	0.016	-1.01
MCHC-g/dl	1	31.7	31.6	63.3	64.3	0.113	-0.30	0.1	0.3	0.018	-0.67
Plt. x10³/µl	1	236	229	465	394	1.382	1.74	7	5	0.294	0.39
Retic %	2	14.4	14	28.4	23.1	0.274	0.74	0.4	0.65	0.043	-0.44

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=3 , Poly=15 L=4, E=1, Mono/Promono=14 , B1=18 P.M.=30, Mye=10, Meta=5, Other=	Blast: 46-70, Poly: 10-20, Myelo: 3-12, Meta: 2-8, Promyelo: 1-8, Lympho: 3-7, Mono: 1-4, nRBC/Eos/Baso : 0-5
RBC Morphology	3	Normocytic normochromic with mild anisocytosis	Predominantly: Normocytic/Normochromic, Moderate: Anisocytosis, Mild: Macrocytes, poikilocytosis
Diagnosis	3	? Acute Myeloid Leukemia M4	Acute Leukemia likely Acute Myeloid Leukemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 163--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	344	85.17	90.12	7.27	5.52	7.56	4.36
RBC x10⁶/µl	1	348	348	90.23	93.97	5.17	2.3	4.6	3.73
Hb g/dl	1	348	348	76.15	92.53	13.79	3.45	10.06	4.02
HCT%	1	348	345	95.07	91.88	3.48	4.06	1.45	4.06
MCV-fl	1	348	345	96.52	84.06	3.19	9.28	0.29	6.66
MCH-Pg	1	348	345	86.96	90.43	6.96	5.22	6.08	4.35
MCHC-g/dl	1	348	345	92.17	91.3	4.93	4.93	2.9	3.77
Plt. x10³/µl	1	348	345	94.2	88.99	3.19	5.22	2.61	5.79
ReticCount%	2	348	317	89.91	80.44	7.89	11.99	2.2	7.57
PS Assessment	3	348	316	Satisfactory :97.42%, Borderline Sat. :0.86%, Unsatisfactory :1.72%					

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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