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. : 3660 **Distribution No.:** 164-J **Month/Year:** June/2024

Instrument ID: ERBA **Model Name.:** ELITE 580 **Serial No.:** K11051903014

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: 28-08-2024 [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 x10³/µl	1	5.8	5.68	11.48	10.9	0.034	0.75	0.12	0.1	0.008	0.17
RBC x10⁶/µl	1	4.58	4.54	9.12	9.1	0.010	0.08	0.04	0.04	0.003	0.00
Hb g/dl	1	13.7	13.6	27.3	26.2	0.027	1.85	0.1	0.1	0.008	0.00
HCT%	1	41.3	41	82.3	79.2	0.170	0.71	0.3	0.4	0.023	-0.27
MCV-fl	1	90.3	90.2	180.5	174	0.314	0.79	0.1	0.3	0.022	-0.54
MCH-Pg	1	28.3	28.1	56.4	58.3	0.072	-1.03	0.2	0.2	0.015	0.00
MCHC-g/dl	1	31.7	31.2	62.9	64.35	0.161	-0.34	0.5	0.3	0.019	0.67
Plt. x10³/µl	1	85	82	167	179.5	1.782	-0.26	3	5	0.297	-0.45
Retic %	2	7.5	7.4	14.9	16	0.260	-0.15	0.1	0.5	0.036	-0.67

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=1 , Poly=40 L=8, E=1, Mono/Promono=1 , B1=1 P.M.=6, Mye=27, Meta=14, Other=nRBC	Poly: 23–43, Myelo: 17-35, Meta: 12–22, Promyelo: 2-10, Lympho: 3–6, Blast: 2-5, Eosino: 1-3, Mono: 1-2, Baso: 0-5
RBC Morphology	3	Normocytic normochromic with mild anisocytosis	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Mild: Polychromatophils (+), Macrocytic, Tear drop cells
Diagnosis	3	chromic myeloid leukaemia	Myeloproliferative Neoplasm (CML-CP)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 164--J	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 $x10^3/\mu l$	1	312	311	81.03	85.53	4.82	5.14	14.150	9.33
RBC $x10^6/\mu l$	1	312	312	83.65	90.06	9.62	4.49	6.73	5.45
Hb g/dl	1	312	312	80.45	88.46	8.65	5.45	10.9	6.09
HCT%	1	312	311	89.71	89.71	8.04	5.79	2.25	4.5
MCV-fl	1	312	311	88.1	92.93	8.04	2.89	3.86	4.18
MCH-Pg	1	312	311	89.71	94.53	5.14	2.89	5.15	2.58
MCHC-g/dl	1	312	311	90.68	85.85	5.79	4.5	3.53	9.65
Plt. $x10^3/\mu l$	1	312	310	86.13	94.52	9.68	2.26	4.19	3.22
ReticCount%	2	312	266	93.23	79.7	4.89	15.04	1.88	5.26
PS Assessment	3	312	273	Satisfactory :94.53%, Borderline Sat. :1.93%, Unsatisfactory :3.54%					

*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,

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