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.: 3650 **Distribution No.:** 162-J **Month/Year:** March/2024

Instrument ID: ERBA **Model Name.** Erba Elite 580 **Serial No.:** K11051912060

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: 05-05-2024[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	5.57	5.32	10.89	9.84	0.044	0.83	0.25	0.1	0.006	1.45
RBC x10⁶/µl	1	4.54	4.53	9.07	9.06	0.008	0.04	0.01	0.03	0.002	-0.54
Hb g/dl	1	14.3	14.3	28.6	28.6	0.026	0.00	0	0.1	0.007	-1.35
HCT%	1	43.6	43.4	87	89.7	0.215	-0.43	0.2	0.4	0.023	-0.54
MCV-fl	1	96	95.8	191.8	197.8	0.419	-0.45	0.2	0.2	0.019	0.00
MCH-Pg	1	31.6	31.5	63.1	63	0.056	0.06	0.1	0.2	0.011	-0.45
MCHC-g/dl	1	32.9	32.8	65.7	63.3	0.150	0.51	0.1	0.3	0.016	-0.90
Plt. x10³/µl	1	133	129	262	231	1.429	0.71	4	3	0.222	0.22
Retic %	2	20.5	18.4	38.9	31	0.457	0.56	2.1	0.8	0.044	2.51

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=8 , Poly=18 L=7, E=7, Mono/Promono=0 , B1=3 P.M.=5, Mye=48, Meta=10, Other=	Poly: 20 – 35, Lympho: 4 – 10, Myelo: 19 - 39, Meta: 7–15, Promyelo: 2-9, Eosino: 2-7, Mono: 1-2, Blast: 1 - 5, Baso: 0-5
RBC Morphology	3	Normal Density.Mild Anisocytosis.Normocytic Normochromic Cells .Microcytes,Macrocytes,Polychromatophilic cells,	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Mild: Polychromatophils (+), Poikilocytosis, Macrocytes
Diagnosis	3	Finding are S/O Chronic myeloid leukemia (CML)	MPN likely CML-CP

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 164--A	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	365	365	81.64	92.6	7.67	2.19	10.69	5.21
RBC $x10^6/\mu l$	1	365	365	89.32	91.51	6.03	3.84	4.65	4.65
Hb g/dl	1	365	365	86.58	89.04	7.4	3.56	6.02	7.4
HCT%	1	365	365	93.7	90.41	4.66	3.84	1.64	5.75
MCV-fl	1	365	365	94.79	93.15	3.01	3.84	2.2	3.01
MCH-Pg	1	365	365	85.75	93.7	7.67	2.74	6.58	3.56
MCHC-g/dl	1	365	365	93.7	90.96	3.56	3.01	2.74	6.03
Plt. $x10^3/\mu l$	1	365	365	89.59	89.86	6.58	5.21	3.83	4.93
ReticCount%	2	365	350	96.86	92.29	2.57	0.86	0.57	6.85
PS Assessment	3	365	345	Satisfactory :89.05%, Borderline Sat. :2.46%, Unsatisfactory :8.49%					

*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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