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. : 757 **Distribution No.:** 162-A **Month/Year:** November/2023

Instrument ID: sysmex

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi, Tel: 9013085730 , E-Mail : accuracy2000@gmail.com

Date of issue & status of the report: 02-02-2024[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	5.32	5.22	10.54	10.55	0.027	**-0.01**	0.1	0.1	0.006	0.00
RBC x10^6/µl	1	4.61	4.6	9.21	9.3	0.008	**-0.43**	0.01	0.03	0.002	-0.45
Hb g/dl	1	10.6	10.5	21.1	21.3	0.018	**-0.40**	0.1	0.1	0.007	0.00
HCT%	1	36	35.9	71.9	71.2	0.156	**0.15**	0.1	0.3	0.021	-0.54
MCV-fl	1	78.1	78	156.1	153.5	0.296	**0.27**	0.1	0.2	0.017	-0.34
MCH-Pg	1	23	22.8	45.8	45.8	0.041	**0.00**	0.2	0.2	0.011	0.00
MCHC-g/dl	1	29.5	29.2	58.7	59.6	0.129	**-0.22**	0.3	0.2	0.016	0.39
Plt. x10^3/µl	1	220	202	422	365	2.059	**0.87**	18	7	0.379	1.85
Retic %	2										

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=2 , Poly=56 L=1, E=2, Mono/Promono=1 , B1=2 P.M.=3, Mye=14, Meta=18, Other=	Poly: 52 - 65, Myelo: 8 - 17, Meta: 7- 13, Promyelo: 2-6, Lympho: 2- 4, Blast: 2-5, Eosino: 1-3, Mono: 1-2, Baso: 0-5
RBC Morphology	3	ANISO(+),POIK(+),MACRO (NIL),MICRO (NIL),HYPO(+)	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytic, Hypochromic, Mild: Poikilocytosis
Diagnosis	3	Chronic myelogenous Leukemia-chronic phase	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

ameters	S.No.	Total participants covered in the current dist. 162--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	364	363	80.44	87.88	3.86	4.96	15.7	7.16
RBC $x10^6/\mu l$	1	364	364	88.19	89.29	7.14	3.57	4.67	7.14
Hb g/dl	1	364	364	88.19	92.03	7.14	3.85	4.67	4.12
HCT%	1	364	363	95.04	86.78	3.31	5.51	1.65	7.71
MCV-fl	1	364	363	96.69	89.26	2.48	6.34	0.83	4.4
MCH-Pg	1	364	363	89.26	87.05	6.34	6.61	4.4	6.34
MCHC-g/dl	1	364	363	95.87	88.71	3.58	4.96	0.55	6.33
Plt. $x10^3/\mu l$	1	364	362	95.03	91.16	3.87	3.31	1.1	5.53
ReticCount%	2	364	344	95.06	81.1	4.36	6.98	0.58	11.92
PS Assessment	3	364	350	Satisfactory :95.63%, Borderline Sat. :1.91%, Unsatisfactory :2.46%					

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.

Verified.

02/02/2024

Report authorized by,

Dr. Manoranjan Mahapatra (Prof. & Head)
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