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

PC-1002

Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No. : 5820 **Distribution No.:** 160-O **Month/Year:** July/2023

Instrument ID: PDC01

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: 19-09-2023[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	3.43	3.41	6.84	6.85	0.043	**-0.01**	0.02	0.08	0.006	**-0.81**
RBC x10^6/µl	1	4.93	4.81	9.74	9.51	0.016	**0.74**	0.12	0.05	0.004	**1.35**
Hb g/dl	1	12.95	12.8	25.75	25.3	0.036	**0.55**	0.15	0.1	0.011	**0.34**
HCT%	1	43.2	42	85.2	80.7	0.256	**0.84**	1.2	0.4	0.045	**1.35**
MCV-fl	1	87.6	87.3	174.9	169.3	0.451	**0.57**	0.3	0.3	0.030	**0.00**
MCH-Pg	1	26.6	26.3	52.9	53	0.104	**-0.05**	0.3	0.2	0.018	**0.45**
MCHC-g/dl	1	30.5	30	60.5	63.1	0.231	**-0.57**	0.5	0.3	0.027	**0.54**
Plt. x10^3/µl	1	156	150	306	318	2.317	**-0.23**	6	7	0.578	**-0.15**
Retic %	2	0.7	0.5	1.2	1.59	0.054	**-0.28**	0.2	0.2	0.014	**0.00**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly=42 L=03, E=5, Mono/Promono=1 , B1=3 P.M.=5, Mye=70, Meta=12, Other=	Poly: 37 – 52, Myelo: 15 - 27, Meta: 9– 17, Promyelo: 2-8, Lympho: 2– 5, Blast: 1-4, Eosino: 1-3, Mono: 1-2, nRBC/ Baso: 0-5
RBC Morphology	3	NCNC+,ANISO+POIK+,HYPO+	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromic, Mild: Poikilocytosis
Diagnosis	3	CML	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 160--O	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 $x10^3$/µl	1	200	199	86.43	92.96	3.52	1.01	10.05	6.03
RBC $x10^6$/µl	1	200	200	87	86.5	6	5.5	7	8
Hb g/dl	1	200	200	86.5	87.5	7	4.5	6.5	8
HCT%	1	200	199	92.96	89.95	2.51	3.02	4.53	7.03
MCV-fl	1	200	199	92.46	87.44	6.53	4.02	1.01	8.54
MCH-Pg	1	200	199	83.42	92.46	9.05	1.01	7.53	6.53
MCHC-g/dl	1	200	199	90.95	85.43	5.03	5.03	4.02	9.54
Plt. $x10^3$/µl	1	200	199	88.94	92.96	6.53	3.52	4.53	3.52
ReticCount%	2	200	152	84.87	92.76	7.24	9.87	7.89	-2.63
PS Assessment	3	200	163	Satisfactory :98.5%, Borderline Sat. :0%, Unsatisfactory :1.50%					

*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,

Dr. Manoranjan Mahapatra (Prof. & Head)
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