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. : 1702 **Distribution No.:** 162-D **Month/Year:** November/2023

Instrument ID: Nihon Kohden **Model Name.:** MEK 6510K **Serial No.:** 04225

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: 12-02-2024[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	8.3	8.2	16.5	12.5	0.189	**0.73**	0.1	0.2	0.014	**-0.45**
RBC x10^6/µl	1	4.08	4.07	8.15	8.6	0.013	**-1.48**	0.01	0.06	0.004	**-0.75**
Hb g/dl	1	13.6	13.5	27.1	28.75	0.036	**-1.85**	0.1	0.1	0.010	**0.00**
HCT%	1	40.3	40.3	80.6	89.2	0.268	**-1.30**	0	0.7	0.048	**-0.86**
MCV-fl	1	99	98.8	197.8	207.65	0.503	**-0.75**	0.2	0.3	0.026	**-0.27**
MCH-Pg	1	33.3	33.2	66.5	66.85	0.086	**-0.15**	0.1	0.4	0.028	**-0.81**
MCHC-g/dl	1	33.7	33.5	67.2	63.8	0.179	**0.78**	0.2	0.4	0.027	**-0.45**
Plt. x10^3/µl	1	179	171	350	433	2.737	**-1.20**	8	8	0.540	**0.00**
Retic %	2	14	13.5	27.5	26.3	0.404	**0.10**	0.5	0.6	0.046	**-0.19**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=79 L=4, E=0, Mono/Promono=1 , B1=0 P.M.=1, Mye=10, Meta=5, Other=	Poly: 65 – 78, Myelo: 5 - 10, Meta: 4 – 10, Lympho: 4 – 8, Eos: 1- 2, Mono: 1 - 2, nRBC/ Baso/ Promyelo, Blast : 0 – 5
RBC Morphology	3	Normocytic normochromic with mild ansiocytosis	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Mild: Macrocytes
Diagnosis	3	CML (Chronic Myeloid Leukemia)	Chronic Myeloid Leukemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 162--D	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	310	245	88.57	85.31	6.53	4.08	4.9	10.61
RBC $x10^6$/µl	1	310	310	65.16	68.39	6.77	3.55	28.07	28.06
Hb g/dl	1	310	310	66.13	71.94	5.48	2.9	28.39	25.16
HCT%	1	310	245	88.16	85.71	5.71	6.12	6.13	8.17
MCV-fl	1	310	245	90.61	88.98	5.71	5.31	3.68	5.71
MCH-Pg	1	310	245	87.35	88.57	6.12	4.08	6.53	7.35
MCHC-g/dl	1	310	244	82.38	86.07	12.7	5.33	4.92	8.6
Plt. $x10^3$/µl	1	310	245	83.67	89.39	6.12	4.49	10.21	6.12
ReticCount%	2	310	293	95.56	80.55	3.75	12.63	0.69	6.82
PS Assessment	3	310	293	Satisfactory :93.24%, Borderline Sat. :6.12%, Unsatisfactory :0.64%					

*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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