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. : 5579 **Distribution No.:** 162-N **Month/Year:** February/2024

Instrument ID: HORIBA **Model Name.:** HORIBA ABX MICROS 60 **Serial No.:** 201 OT 10000 80

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: 10-04-2024[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	7.9	7.85	15.75	15.9	0.039	-0.14	0.05	0.11	0.008	-0.57
RBC x10^6/µl	1	4.39	4.37	8.76	8.83	0.011	-0.27	0.02	0.04	0.003	-0.45
Hb g/dl	1	9.6	9.5	19.1	18.7	0.020	0.74	0.1	0.1	0.007	0.00
HCT%	1	36.5	35.6	72.1	65.5	0.193	1.12	0.9	0.3	0.021	1.76
MCV-fl	1	83.1	81.5	164.6	149.25	0.386	1.33	1.6	0.2	0.018	4.72
MCH-Pg	1	21.9	21.7	43.6	42.3	0.053	0.88	0.2	0.2	0.013	0.00
MCHC-g/dl	1	26.7	26.3	53	56.85	0.168	-0.69	0.4	0.3	0.017	0.34
Plt. x10^3/µl	1	376	357	733	669	3.294	0.71	19	9	0.544	1.12
Retic %	2	4.5	3.5	8	8.75	0.201	-0.11	1	0.4	0.026	1.01

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=5 L=92, E=01, Mono/Promono=02 , B1=0 P.M.=0, Mye=0, Meta=0, Other=	Lymp: 83-93, Poly: 5-10, nRBC/blast/Eosino/Myelo/Meta/Mono: 0-5
RBC Morphology	3	MICROCYTIC HYPOCHROMIC BUT PREDOMINANTLY N.C. N.C.	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Mild: Poikilocytosis, Microcytic, Hypochromic
Diagnosis	3	CHRONIC LYMPHOCYTIC LEUKAEMIA	Chronic Lymphocytic Leukemia (CLL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 162--N	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	338	336	90.77	87.5	5.65	5.95	3.58	6.55
RBC $x10^6/\mu l$	1	338	338	84.02	92.6	9.76	3.25	6.22	4.15
Hb g/dl	1	338	338	86.69	91.12	7.1	2.96	6.21	5.92
HCT%	1	338	336	97.92	91.37	2.08	5.36	0	3.27
MCV-fl	1	338	336	97.62	89.58	1.49	5.65	0.89	4.77
MCH-Pg	1	338	336	88.39	93.75	8.04	2.98	3.57	3.27
MCHC-g/dl	1	338	336	97.62	88.39	1.79	4.76	0.59	6.85
Plt. $x10^3/\mu l$	1	338	336	89.58	90.77	6.85	5.65	3.57	3.58
ReticCount%	2	338	228	95.18	93.42	2.63	7.89	2.19	-1.31
PS Assessment	3	338	259	Satisfactory :95.87%, Borderline Sat. :1.18%, Unsatisfactory :2.95%					

*Comments:

1). **Among Lab (EQA) : Results acceptable.**

2). **Within Lab (IQA) : Difference in the CBC measurement values for *MCV* unacceptable, may be due to random/human error.**

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

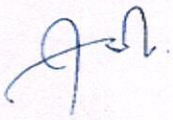
Note-7: Participants are free to use methods/analyzer of their own choice.

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)
PT Co-ordinator: ISHTM-AIIMS-EQAP
Department of Hematology, AIIMS, New Delhi

----------End Of Report----------