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. : 2640 **Distribution No.:** 161-F **Month/Year:** September/2023

Instrument ID: HORIBA YUMIZEN H 500(001YOXH03179) **Model Name.:** **Serial No.:**

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: 26-12-2023[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	3.98	3.95	7.93	8.7	0.003	-1.04	0.03	0.1	0.005	-0.86
RBC x10^6/µl	1	4.24	4.23	8.47	8.61	0.009	-0.67	0.01	0.04	0.002	-0.81
Hb g/dl	1	10.9	10.9	21.8	22.7	0.021	-1.52	0	0.1	0.007	-1.35
HCT%	1	34	33.7	67.7	71.7	0.136	-1.08	0.3	0.3	0.018	0.00
MCV-fl	1	80.3	79.7	160	166.8	0.238	-1.00	0.6	0.2	0.017	1.35
MCH-Pg	1	25.8	25.8	51.6	52.7	0.062	-0.67	0	0.2	0.013	-0.90
MCHC-g/dl	1	32.4	32.1	64.5	63.4	0.116	0.33	0.3	0.2	0.016	0.39
Plt. x10^3/µl	1	179	169	348	352	1.509	-0.10	10	6	0.356	0.72
Retic %	2	5.5	5.2	10.7	6.8	0.140	0.91	0.3	0.4	0.023	-0.17

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=5 , Poly=52 L=40, E=5, Mono/Promono=3 , B1=0 P.M.=0, Mye=0, Meta=0, Other=	Poly: 43 – 55, Lympho: 29– 42, Mono: 1 - 5, Eosino: 1-5, Plasma Cells: 06, nRBC/Blast, Promyelo, Myelo, Meta, Baso: 0-5
RBC Morphology	3	Predominantly Normocytic Normochromic	RBC- Marked Rouleaux formation with Predominantly Normocytic Normochromic red blood cells.
Diagnosis	3	Plasma cell Leukemia	Plasma Cell Leukemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 161--F	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	321	319	84.95	92.16	5.33	5.64	9.72	2.2
RBC x10^6/µl	1	321	321	81.93	89.41	8.41	5.3	9.66	5.29
Hb g/dl	1	321	321	83.8	88.47	5.61	5.3	10.59	6.23
HCT%	1	321	319	91.85	88.4	5.96	5.96	2.19	5.64
MCV-fl	1	321	319	95.92	95.61	3.45	1.25	0.63	3.14
MCH-Pg	1	321	319	89.34	92.79	7.21	3.13	3.45	4.08
MCHC-g/dl	1	321	319	94.36	94.04	4.7	2.82	0.94	3.14
Plt. x10^3/µl	1	321	319	89.66	92.16	5.64	4.7	4.7	3.14
ReticCount%	2	321	267	92.51	91.01	3.37	6.37	4.12	2.62
PS Assessment	3	321	249	Satisfactory :81.63%, Borderline Sat. :4.36%, Unsatisfactory :14.01%					

Comments:

1). Among Lab (EQA) : Acceptable Results.

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.

NO outlier observed such that NO CAPA Required

Report authorized by,

Dr. Manoranjan Mahapatra (Prof. & Head)
PT Co-ordinator: ISHTM-AIIMS-EQAP
Department of Hematology, AIIMS, New Delhi

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