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

NABL Certificate No. PC - 1002

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

EQAP CODE No. : 2288 **Distribution No.:** 148-F **Month/Year:** September/2019

Instrument ID: DXH 800 RAZ24024

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

Date of issue & status of the report: 15-11-2019[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	6.1	5.9	12	10.5	0.0290	**1.84**	0.2	0.1	0.0080	**0.79**
RBC x10^6/µl	1	5.16	5.05	10.21	9.14	0.0100	**3.82**	0.11	0.05	0.0020	**1.16**
Hb g/dl	1	12.7	12.5	25.2	23.8	0.0260	**2.10**	0.2	0.1	0.0070	**0.67**
HCT%	1	43.6	42.8	86.4	74.85	0.1220	**3.56**	0.8	0.4	0.0240	**0.90**
MCV-fl	1	84.7	84.5	169.2	163.15	0.2050	**1.11**	0.2	0.3	0.0210	**-0.17**
MCH-Pg	1	24.8	24.5	49.3	51.9	0.0500	**-1.85**	0.3	0.2	0.0130	**0.45**
MCHC-g/dl	1	29.2	29	58.2	63.6	0.1020	**-1.82**	0.2	0.3	0.0200	**-0.34**
Plt. x10^3/µl	1	289	281	570	549	1.79	**0.44**	8	7	0.47	**0.13**
Retic %	2	6	5	11	10	0.15	**0.24**	1	0.4	0.03	**0.90**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly=POLY: 5% L=LYMPHO : 91%/ PROLYMPHO: 4%, E=, Mono/Promono= , B1= P.M.=, Mye=, Meta=, Other=PLATELETS ARE ADEQUATE ON SMEAR	Lymph: 85-95, nRBC/Poly/Eo/Mono/Blast/Pro/Mye/Meta: 0-5, Smudge cells seen prevalently.
RBC Morphology	3	HYPOCHROMIA ++	Predominantly: Normocytic Normochromic, Moderate: Microcytic, Mild: Hypochromic.
Diagnosis	3	LYMPHOPROLIFERATIVE DISORDER, CLL	Chronic Lymphocytic Leukemia [CLL]

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COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist.	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	450	355	90.42	84.51	4.51	7.04	4.79	7.61
RBC x10^6/µl	1	450	355	87.04	90.99	4.79	3.1	7.89	5.63
Hb g/dl	1	450	355	86.2	86.76	6.48	4.79	7.04	8.17
HCT%	1	450	355	87.61	90.42	6.48	3.94	5.63	5.35
MCV-fl	1	450	355	89.01	93.52	5.63	2.54	5.07	3.66
MCH-Pg	1	450	355	87.32	88.45	6.48	4.23	5.92	6.76
MCHC-g/dl	1	450	355	91.55	89.3	5.35	5.07	2.54	5.07
Plt. x10^3/µl	1	450	355	87.32	91.83	6.48	3.38	5.63	4.23
ReticCount%	2	450	330	91.82	93.33	5.76	3.64	3.03	3.33
PS Assessment	3	450	337	Acceptable:84.3%,Warning Signal:6.1%,Unacceptable :9.6%					

***Comments:**

1). Among Lab (EQA) : CBC result for *RBC & HCT* unacceptable, please check calibration/human error.

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.

Report authorized by,

Dr. R. Saxena
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PT Co-ordinator: ISHTM-AIIMS-EQAP

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