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. : 1114 **Distribution No.:** 148-D **Month/Year:** August/2019

Instrument ID: I COUNT 5

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: 09-10-2019[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	12.9	12.5	25.4	23.2	0.1490	**0.38**	0.4	0.17	0.0760	**1.51**
RBC x10^6/µl	1	6.5	6.4	12.9	13	0.0130	**-0.27**	0.1	0.05	0.0030	**0.84**
Hb g/dl	1	17.3	17.2	34.5	36.4	0.0340	**-1.97**	0.1	0.1	0.0070	**0.00**
HCT%	1	47.8	47.3	95.1	110.5	0.1780	**-3.30**	0.5	0.4	0.0240	**0.19**
MCV-fl	1	73.8	73.5	147.3	170	0.2690	**-3.00**	0.3	0.2	0.0180	**0.34**
MCH-Pg	1	27	26.5	53.5	55.7	0.0560	**-1.35**	0.5	0.2	0.0110	**1.35**
MCHC-g/dl	1	36.7	36	72.7	66.1	0.1150	**1.97**	0.7	0.2	0.0140	**1.69**
Plt. x10^3/µl	1	265	248	513	544	2.32	**-0.46**	17	7	0.44	**1.23**
Retic %	2	2.9	2	4.9	3.5	0.08	**0.52**	0.9	0.2	0.01	**2.36**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=01/100 , Poly=65% L=14%, E=02%, Mono/Promono=01% , B1=01% P.M.=02%, Mye=05%, Meta=7%, Other=---	Poly: 65-70, Lymph: 4-10, nRBC/Eo/Mono/Blast/Pro: 0-4, My & Meta: 3-10
RBC Morphology	3	NC NC,MILD POLYCHROMASIA,nRBC/-01/100 wbc	Predominantly: Normocytic Normochromic, Moderate: Anisocytosis, Mild: Macrocytic
Diagnosis	3	chronic myeloid leukemia chronic phase	Chronic Myeloid Leukemia (Chronic Phase) [CML CP]

EQAP Code No.: 1114 *Distribution No.: 148-D Month/Year: August/2019 Instrument ID: I COUNT 5*

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 $x10^3/\mu l$	1	450	368	89.95	86.41	7.61	5.16	1.63	7.34
RBC $x10^6/\mu l$	1	450	368	88.59	88.32	4.35	3.26	6.25	7.61
Hb g/dl	1	450	368	88.86	82.34	4.62	8.42	5.71	8.7
HCT%	1	450	368	87.77	91.3	4.89	2.99	6.52	4.35
MCV-fl	1	450	368	90.76	91.58	4.35	3.8	4.08	3.8
MCH-Pg	1	450	368	91.58	90.49	3.53	5.16	3.53	3.26
MCHC-g/dl	1	450	368	90.76	93.21	5.71	3.26	2.45	2.72
Plt. $x10^3/\mu l$	1	450	368	90.49	89.67	5.71	5.43	2.99	4.08
ReticCount%	2	450	298	93.96	89.26	3.69	2.35	3.02	10.07
PS Assessment	3	450	346	Acceptable:96.5%,Warning Signal:2.9%,Unacceptable :0.6%					

***Comments:**

1). Among Lab (EQA) : CBC result for *HCT & MCV* 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
Prof & Head, Hematology, AIIMS, Delhi.
PT Co-ordinator: ISHTM-AIIMS-EQAP

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