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. : 5051 **Distribution No.:** 157-M **Month/Year:** October/2022

Instrument ID: Sysmex XN-350 (S/N : 16006)

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,
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Date of issue & status of the report: 24-11-2022[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	6.03	5.96	11.99	11.2	0.0290	**0.98**	0.07	0.1	0.0060	**-0.29**
RBC x10^6/µl	1	3.76	3.73	7.49	7.56	0.0080	**-0.30**	0.03	0.04	0.0030	**-0.22**
Hb g/dl	1	12.2	12	24.2	23.7	0.0270	**0.76**	0.2	0.1	0.0080	**0.67**
HCT%	1	39	38.7	77.7	73.3	0.1660	**0.92**	0.3	0.4	0.0250	**-0.19**
MCV-fl	1	103.8	103.7	207.5	194.55	0.3960	**1.12**	0.1	0.3	0.0210	**-0.63**
MCH-Pg	1	32.4	32.2	64.6	62.6	0.0840	**0.86**	0.2	0.3	0.0200	**-0.27**
MCHC-g/dl	1	31.3	31	62.3	64.5	0.1500	**-0.51**	0.3	0.3	0.0220	**0.00**
Plt. x10^3/µl	1	145	138	283	281.5	1.19	**0.05**	7	4	0.28	**0.67**
Retic %	2	4.8	4.6	9.4	10.5	0.23	**-0.16**	0.2	0.5	0.03	**-0.51**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=3 , Poly=78 L=5, E=0, Mono/Promono=0 , B1=0 P.M.=0, Mye=7, Meta=6, Other=0	Poly: 60 – 77, Myelo: 5 - 12, Meta: 5 – 10, Lympho: 3 – 7, Eos: 1- 3, nRBC/ Baso/ Promyelo, Blast Mono: 0 – 5
RBC Morphology	3	Normocytic Normochromic Red Cells, Occational Tear Drop Cells with mild Anisocytosis	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia
Diagnosis	3		Chronic Myeloid Leukemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 157--M	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	333	332	83.13	88.55	6.63	5.12	10.24	6.33
RBC $x10^6/\mu l$	1	333	333	88.89	88.89	5.11	5.71	6	5.4
Hb g/dl	1	333	333	86.49	85.89	6.01	6.91	7.5	7.2
HCT%	1	333	331	93.96	91.54	4.23	3.32	1.81	5.14
MCV-fl	1	333	332	95.48	91.27	3.01	2.41	1.51	6.32
MCH-Pg	1	333	332	90.36	85.54	5.72	7.83	3.92	6.63
MCHC-g/dl	1	333	332	93.67	91.87	3.92	2.11	2.41	6.02
Plt. $x10^3/\mu l$	1	333	332	91.57	92.17	5.72	4.22	2.71	3.61
ReticCount%	2	333	296	88.18	88.18	7.43	7.09	4.39	4.73
PS Assessment	3	333	269	Satisfactory :87.66%, Borderline Sat. :11.14%, Unsatisfactory :1.20%					

*Comments:

1). Among Lab (EQA) : PS Diagnosis not reported, remaining 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,

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