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. : 4483 **Distribution No.:** 155-L **Month/Year:** April/2022

Instrument ID: TU 14001824

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: 04-07-2022[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	13.62	13.53	27.15	24.12	0.1270	**0.92**	0.09	0.2	0.0130	**-0.48**
RBC x10^6/µl	1	6.27	6.19	12.46	12.05	0.0170	**0.89**	0.08	0.06	0.0040	**0.34**
Hb g/dl	1	14.3	14.2	28.5	28.5	0.0290	**0.00**	0.1	0.1	0.0080	**0.00**
HCT%	1	49.9	49.6	99.5	95.8	0.2590	**0.49**	0.3	0.5	0.0360	**-0.34**
MCV-fl	1	80.2	79.6	159.8	159.6	0.3180	**0.02**	0.6	0.3	0.0210	**0.81**
MCH-Pg	1	23.1	22.7	45.8	47.1	0.0570	**-0.84**	0.4	0.2	0.0120	**1.35**
MCHC-g/dl	1	28.8	28.5	57.3	58.9	0.1470	**-0.39**	0.3	0.25	0.0170	**0.17**
Plt. x10^3/µl	1	202	199	401	399	2.71	**0.02**	3	9	0.55	**-0.62**
Retic %	2	6.7	6.5	13.2	17.05	0.44	**-0.28**	0.2	0.7	0.05	**-0.40**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=42 L=02, E=01, Mono/Promono=01 , B1=02 P.M.=07, Mye=15, Meta=11, Other=BANDS 19	Poly: 50 – 66, Myelo: 9 - 18, Meta: 6 – 13, Lympho: 3-7, nRBC/Promyelo/Blast/Eos/Baso/Mono: 0 – 5
RBC Morphology	3	MILD ANISOPOIKILOCYTOSIS, NORMOCYTIC NORMOCHROMIC, FEW TEAR DROP CELLS , NO HYPOCHROMIA OR MACROCYTOSIS	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	CML	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 155--L	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	347	334	87.43	89.22	5.69	4.19	6.88	6.59
RBC $x10^6$/µl	1	347	347	83.29	86.46	7.49	2.02	9.22	11.52
Hb g/dl	1	347	347	87.32	84.73	4.9	6.05	7.78	9.22
HCT%	1	347	333	90.39	88.89	6.61	5.11	3	6
MCV-fl	1	347	333	90.09	86.19	5.41	3.9	4.5	9.91
MCH-Pg	1	347	333	87.99	93.69	7.51	3	4.5	3.31
MCHC-g/dl	1	347	333	91.59	86.79	4.8	4.5	3.61	8.71
Plt. $x10^3$/µl	1	347	333	96.7	86.19	1.8	8.71	1.5	5.1
ReticCount%	2	347	222	91.44	93.24	5.41	2.7	3.15	4.06
PS Assessment	3	347	230	Satisfactory :96.26%, Borderline Sat. :2.88%, Unsatisfactory :0.86%					

*Comments:

1). Among Lab (EQA) : 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,

Dr. Seema Tyagi (Prof.)
PT Co-ordinator: ISHTM-AIIMS-EQAP
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