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. : 3569 **Distribution No.:** 154-J **Month/Year:** January/2022

Instrument ID: Beckman DxH 500(AZ080377)

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: 16-03-2022[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	6.92	6.66	13.58	14.9	0.0430	**-1.38**	0.26	0.11	0.0110	**1.56**
RBC x10^6/µl	1	3.45	3.41	6.86	6.82	0.0080	**0.21**	0.04	0.03	0.0030	**0.27**
Hb g/dl	1	11.18	11.13	22.31	21.8	0.0240	**0.86**	0.05	0.1	0.0080	**-0.67**
HCT%	1	35.8	35.4	71.2	68.6	0.1510	**0.78**	0.4	0.3	0.0270	**0.34**
MCV-fl	1	103.9	103.8	207.7	200.6	0.3570	**0.81**	0.1	0.5	0.0370	**-0.60**
MCH-Pg	1	32.6	32.4	65	64.1	0.0800	**0.51**	0.2	0.2	0.0160	**0.00**
MCHC-g/dl	1	31.4	31.2	62.6	63.6	0.1440	**-0.31**	0.2	0.3	0.0220	**-0.27**
Plt. x10^3/µl	1	232	229	461	418	1.39	**1.38**	3	6	0.39	**-0.58**
Retic %	2	2.8	1.8	4.6	6.6	0.17	**-0.45**	1	0.3	0.02	**2.36**

P.S . Assesment

	YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=2.00 , Poly=51.00 L=5.00, E=6.00, Mono/Promono=30.00 , B1=4.00 P.M.=1.00, Mye=1.00, Meta=1.00, Other=	Poly: 45 - 58 , Myelo: 8 - 21, Meta: 6 - 13; Lympho/Promyelo: 1 - 10; Blast/nRBC/Eos/Baso/Mono: 0 - 5
RBC Morphology	3	Normocytic Normochromic, Mild Hypochromasia, Polychromasia +	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	Chronic Myeloproliferative disorder with Monocytosis	Chronic Myeloid Leukemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 154--J	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	237	237	86.92	85.65	4.64	1.69	8.44	12.66
RBC $x10^6/\mu l$	1	237	237	91.14	91.56	4.22	4.22	4.64	4.22
Hb g/dl	1	237	237	92.83	89.87	3.8	3.8	3.37	6.33
HCT%	1	237	237	90.3	84.81	8.44	7.59	1.26	7.6
MCV-fl	1	237	236	94.92	94.92	3.81	2.97	1.27	2.11
MCH-Pg	1	237	237	89.03	88.19	7.17	6.75	3.8	5.06
MCHC-g/dl	1	237	237	90.72	89.45	8.44	5.06	0.84	5.49
Plt. $x10^3/\mu l$	1	237	237	89.03	91.56	7.59	4.22	3.38	4.22
ReticCount%	2	237	232	96.12	83.19	1.29	10.78	2.59	6.03
PS Assessment	3	237	217	Satisfactory :90.99%, Borderline Sat. :7.17%, Unsatisfactory :1.84%					

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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