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. : 3169 **Distribution No.:** 155-H **Month/Year:** March/2022

Instrument ID: SN 1740707210744

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

Date of issue & status of the report: 11-05-2022[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	3.17	3.12	6.29	8.1	0.0550	**-1.99**	0.05	0.1	0.0090	**-0.42**
RBC x10^6/µl	1	3.33	3.31	6.64	6.8	0.0100	**-0.92**	0.02	0.04	0.0030	**-0.60**
Hb g/dl	1	11	11	22	24	0.0400	**-2.70**	0	0.1	0.0110	**-0.67**
HCT%	1	33.7	33.5	67.2	70.1	0.1840	**-0.81**	0.2	0.4	0.0340	**-0.54**
MCV-fl	1	101.3	101.2	202.5	207.3	0.4150	**-0.65**	0.1	0.4	0.0460	**-0.54**
MCH-Pg	1	33.2	33	66.2	70.1	0.1370	**-1.62**	0.2	0.3	0.0260	**-0.45**
MCHC-g/dl	1	32.8	32.6	65.4	68	0.2000	**-0.66**	0.2	0.3	0.0340	**-0.27**
Plt. x10^3/µl	1	141	134	275	294	1.69	**-0.57**	7	5	0.49	**0.39**
Retic %	2	5.5	5	10.5	12.5	0.43	**-0.23**	0.5	0.5	0.05	**0.00**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=53 L=5, E=1, Mono/Promono=2 , B1=7 P.M.=2, Mye=24, Meta=5, Other=	Poly: 38 – 52, Myelo: 14 - 25, Meta: 7 – 16, Blast: 2-8, Lympho: 2-6 , Promyelo: 1-5 nRBC/Eos/Baso/Mono: 0 – 5
RBC Morphology	3	NORMOCYTIC NORMOCHROMIC	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	PBS Findings S/O Chronic Myeloproliferative Disorder CMPD (?CML), Advice- Bone Marrow Examination ,Philadelphia Chromosome	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 155--H	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	151	151	84.11	91.39	1.32	1.32	14.57	7.29
RBC $x10^6$/µl	1	151	151	86.75	88.74	9.27	7.28	3.98	3.98
Hb g/dl	1	151	151	90.07	90.07	7.28	2.65	2.65	7.28
HCT%	1	151	151	93.38	90.73	5.96	5.96	0.66	3.31
MCV-fl	1	151	151	91.39	94.04	6.62	3.97	1.99	1.99
MCH-Pg	1	151	151	91.39	88.74	4.64	5.96	3.97	5.3
MCHC-g/dl	1	151	151	94.04	94.7	5.3	2.65	0.66	2.65
Plt. $x10^3$/µl	1	151	151	96.69	90.73	2.65	5.3	0.66	3.97
ReticCount%	2	151	119	90.76	92.44	5.88	11.76	3.36	-4.2
PS Assessment	3	151	121	Satisfactory :86.1%, Borderline Sat. :10.59%, Unsatisfactory :3.31%					

*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
Department of Hematology, AIIMS, New Delhi

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