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. : 4313 **Distribution No.:** 155-K **Month/Year:** March/2022

Instrument ID: 72007022

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	9.7	9.6	19.3	14.39	0.1460	**1.32**	0.1	0.18	0.0140	**-0.40**
RBC x10^6/µl	1	5.27	5.26	10.53	10.56	0.0150	**-0.07**	0.01	0.05	0.0040	**-0.67**
Hb g/dl	1	13.4	13.4	26.8	26.4	0.0370	**0.48**	0	0.1	0.0090	**-0.67**
HCT%	1	40	40	80	84.2	0.2160	**-0.79**	0	0.4	0.0300	**-0.90**
MCV-fl	1	76	75.9	151.9	159.5	0.3110	**-0.92**	0.1	0.3	0.0250	**-0.54**
MCH-Pg	1	25.5	25.4	50.9	50.2	0.0870	**0.36**	0.1	0.2	0.0170	**-0.45**
MCHC-g/dl	1	33.5	33.4	66.9	62.5	0.1650	**1.06**	0.1	0.3	0.0240	**-0.67**
Plt. x10^3/µl	1	246	227	473	517	2.84	**-0.65**	19	10	0.75	**0.81**
Retic %	2	0.9	0.7	1.6	5.5	0.12	**-1.07**	0.2	0.2	0.02	**0.00**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly=35 L=05, E=08, Mono/Promono=02 , B1=02 P.M.=22, Mye=06, Meta=18, Other=	Poly: 44 – 61, Myelo: 10 - 23, Meta: 8 – 16, Lympho: 2-6, nRBC/Promyelo/Blast/Eos/Baso/Mono: 0 – 5
RBC Morphology	3	Normocytic Normochromic	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	Myeloproliferative disorder most likely suggestive of CML (Chronic myeloid leukemia) . Please correlate with clinical history . Further work up with Flowcytometry . .	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 155--K	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	272	267	87.64	85.77	2.25	4.12	10.11	10.11
RBC $x10^6$/µl	1	272	272	84.93	88.6	6.62	4.41	8.45	6.99
Hb g/dl	1	272	272	82.72	81.62	9.93	5.51	7.35	12.87
HCT%	1	272	266	90.98	92.48	6.39	3.01	2.63	4.51
MCV-fl	1	272	267	93.63	94.01	3.37	2.25	3	3.74
MCH-Pg	1	272	267	86.14	94.01	6.37	1.87	7.49	4.12
MCHC-g/dl	1	272	267	92.88	91.01	3	5.24	4.12	3.75
Plt. $x10^3$/µl	1	272	267	91.76	89.14	5.99	6.37	2.25	4.49
ReticCount%	2	272	225	95.56	86.22	2.22	0.89	2.22	12.89
PS Assessment	3	272	227	Satisfactory :94.13%, Borderline Sat. :3.30%, Unsatisfactory :2.57%					

*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,

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