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. : 2081 **Distribution No.:** 155-E **Month/Year:** March/2022

Instrument ID: 903PES15247

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: 29-04-2022[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	3.1	3	6.1	6.4	0.0320	**-0.34**	0.1	0.09	0.0050	**0.15**
RBC x10^6/µl	1	2.95	2.94	5.89	6.14	0.0070	**-1.35**	0.01	0.03	0.0020	**-0.67**
Hb g/dl	1	11.2	11.1	22.3	22.4	0.0210	**-0.18**	0.1	0.1	0.0070	**0.00**
HCT%	1	32.4	31.9	64.3	69.4	0.1290	**-1.44**	0.5	0.3	0.0230	**0.67**
MCV-fl	1	110	108	218	225.1	0.3410	**-0.77**	2	0.4	0.0310	**2.70**
MCH-Pg	1	38.2	37.7	75.9	73.1	0.0970	**1.05**	0.5	0.3	0.0220	**0.67**
MCHC-g/dl	1	35.2	34.4	69.6	64.65	0.1280	**1.34**	0.8	0.3	0.0150	**1.69**
Plt. x10^3/µl	1	159	154	313	351	1.21	**-1.17**	5	5	0.31	**0.00**
Retic %	2	8	7	15	15.5	0.26	**-0.07**	1	0.5	0.04	**0.84**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=2 , Poly=49 L=05, E=0, Mono/Promono= , B1= P.M.=, Mye=43, Meta=03, Other=REMARKS - NEUTROPHILS -45 STABS 04	Poly: 37 – 50, Myelo: 16 - 32, Meta: 8 – 16, Promyelo: 1-10, nRBC/Lympho/Blast/Eos/Baso/Mono: 0 – 5
RBC Morphology	3	NORMOCHRMOMIC MILD ANISOCYTOSIS,FEW MICROCYTES NOTED ,PLATELETE APPEARS REDUCED IN NUMBER	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	CHRONIC MYELOID LEUKEMIA (CML)	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 155--E	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	320	318	89.94	90.25	5.66	3.77	4.4	5.98
RBC $x10^6$/µl	1	320	320	88.13	87.81	6.56	3.13	5.31	9.06
Hb g/dl	1	320	320	85	91.25	5.63	3.13	9.37	5.62
HCT%	1	320	318	93.4	88.36	5.03	5.97	1.57	5.67
MCV-fl	1	320	317	94.01	95.58	4.42	1.58	1.57	2.84
MCH-Pg	1	320	317	90.22	88.01	4.1	5.36	5.68	6.63
MCHC-g/dl	1	320	318	93.08	90.25	4.09	4.72	2.83	5.03
Plt. $x10^3$/µl	1	320	318	89.94	88.99	6.92	5.66	3.14	5.35
ReticCount%	2	320	298	90.94	88.26	6.04	6.38	3.02	5.36
PS Assessment	3	320	300	Satisfactory :87.16%, Borderline Sat. :6.89%, Unsatisfactory :5.95%					

*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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