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. : 2398 **Distribution No.:** 155-F **Month/Year:** March/2022

Instrument ID: ERBA H-360, 3 PART (K10012116054)

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: 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	8.24	7.91	16.15	16.51	0.0810	**-0.18**	0.33	0.14	0.0110	**1.28**
RBC x10^6/µl	1	4.36	4.27	8.63	7.41	0.0340	**1.19**	0.09	0.06	0.0040	**0.51**
Hb g/dl	1	11.4	11.4	22.8	24	0.0220	**-2.02**	0	0.1	0.0090	**-0.67**
HCT%	1	34	33.1	67.1	70.1	0.1940	**-0.55**	0.9	0.5	0.0260	**0.77**
MCV-fl	1	77.9	77.5	155.4	185.4	0.6860	**-1.45**	0.4	0.6	0.0430	**-0.27**
MCH-Pg	1	26.6	26.2	52.8	64.4	0.2860	**-1.33**	0.4	0.4	0.0300	**0.00**
MCHC-g/dl	1	34.4	33.6	68	68.6	0.1770	**-0.13**	0.8	0.4	0.0250	**1.08**
Plt. x10^3/µl	1	449	442	891	853	3.93	**0.35**	7	10.5	0.75	**-0.26**
Retic %	2	10	8	18	14.5	0.24	**0.53**	2	0.4	0.03	**2.70**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=04 , Poly=08 L=06, E=02, Mono/Promono=00 , B1=80 P.M.=00, Mye=00, Meta=00, Other=	Blast: 45-80, Poly: 7-13, Lympho: 5-14, Promyelo: 0-6.25, Myelo/Mono/Meta: 1-5, nRBC/Eos: 0-1
RBC Morphology	3	Anisopoikilocytosis+, Microcytic+, Hypochromic+, nRBCs seen	Predominantly: Normocytic/Normochromic; Moderate: Microcytosis, Hypochromia; Mild: Anisocytosis, Macrocytosis
Diagnosis	3	ACUTE MYELOID LEUKEMIA	Acute Myeloid Leukemia (AML)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 155--F	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	313	306	86.27	85.62	6.21	6.21	7.52	8.17
RBC $x10^6$/µl	1	313	313	94.57	86.26	3.19	3.83	2.24	9.91
Hb g/dl	1	313	313	84.35	81.15	7.03	8.63	8.62	10.22
HCT%	1	313	308	89.29	88.64	5.84	4.87	4.87	6.49
MCV-fl	1	313	308	98.38	90.58	1.3	3.25	0.32	6.17
MCH-Pg	1	313	307	96.09	93.16	1.95	2.93	1.96	3.91
MCHC-g/dl	1	313	308	88.64	88.64	4.22	4.22	7.14	7.14
Plt. $x10^3$/µl	1	313	308	94.16	91.88	3.25	2.6	2.59	5.52
ReticCount%	2	313	285	95.44	90.53	3.51	6.67	1.05	2.80
PS Assessment	3	313	278	Satisfactory :86.27%, Borderline Sat. :2.55%, Unsatisfactory :11.18%					

*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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