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

Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No. : 2172 **Distribution No.:** 155-F **Month/Year:** March/2022

Instrument ID: K11052125001

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										
RBC x10^6/µl	1	3.39	3.38	6.77	7.41	0.0340	-0.62	0.01	0.06	0.0040	-0.84
Hb g/dl	1	12.1	12	24.1	24	0.0220	0.17	0.1	0.1	0.0090	0.00
HCT%	1	33.4	33.2	66.6	70.05	0.1940	-0.64	0.2	0.5	0.0260	-0.58
MCV-fl	1	98.5	98.2	196.7	185.7	0.6860	0.53	0.3	0.6	0.0430	-0.40
MCH-Pg	1	35.7	35.5	71.2	64.4	0.2860	0.78	0.2	0.4	0.0300	-0.45
MCHC-g/dl	1	36.2	36.2	72.4	68.65	0.1770	0.79	0	0.4	0.0250	-1.08
Plt. x10^3/µl	1	474	456	930	852	3.93	0.72	18	10	0.75	0.60
Retic %	2	12	11	23	14.55	0.24	1.25	1	0.4	0.03	1.01

P.S . Assesment

	YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=5 , Poly=8 L=2, E=0, Mono/Promono=0 , B1=72 P.M.=5, Mye=11, Meta=2, Other=0	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	The cells show mild anisocytosis. RBC predominantly normocytic normochromic along with fair number macrocytes and occasional microcytes. Few RBC show polychromasia. 5nRBC/100WBC seen.	Predominantly: Normocytic/Normochromic; Moderate: Microcytosis, Hypochromia; Mild: Anisocytosis, Macrocytosis
Diagnosis	3	Acute Leukemia (AML-M3)	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 $x10^3/\mu l$	1	314	307	86.32	85.67	6.19	6.19	7.49	8.14
RBC $x10^6/\mu l$	1	314	314	94.59	86.31	3.18	3.82	2.23	9.87
Hb g/dl	1	314	314	84.39	81.21	7.01	8.6	8.6	10.19
HCT%	1	314	309	89.32	88.67	5.83	4.85	4.85	6.48
MCV-fl	1	314	309	98.38	90.61	1.29	3.24	0.33	6.15
MCH-Pg	1	314	308	96.1	93.18	1.95	2.92	1.95	3.9
MCHC-g/dl	1	314	309	88.67	88.67	4.21	4.21	7.12	7.12
Plt. $x10^3/\mu l$	1	314	309	94.17	91.91	3.24	2.59	2.59	5.5
ReticCount%	2	314	314	86.94	82.17	3.18	6.05	9.88	11.78
PS Assessment	3	314	279	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.

Report authorized by,

Dr. Seema Tyagi (Prof.)
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