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. : 3467 **Distribution No.:** 152-J **Month/Year:** March/2021

Instrument ID: AZ090456 Beckman DXH 500

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: 24-05-2021[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 x10³/µl	1	28.8	28.46	57.26	13.8	0.0410	47.18	0.34	0.1	0.0110	2.02
RBC x10⁶/µl	1	3.8	3.77	7.57	7.96	0.0110	-1.37	0.03	0.04	0.0030	-0.22
Hb g/dl	1	10.64	10.6	21.24	21.7	0.0290	-0.69	0.04	0.1	0.0080	-0.81
HCT%	1	33.2	33.2	66.4	67.5	0.1620	-0.29	0	0.4	0.0270	-1.08
MCV-fl	1	88	87.3	175.3	170.1	0.3220	0.71	0.7	0.3	0.0300	0.67
MCH-Pg	1	28.1	28	56.1	54.7	0.0880	0.73	0.1	0.3	0.0200	-0.67
MCHC-g/dl	1	32	31.9	63.9	64.2	0.1490	-0.09	0.1	0.3	0.0220	-0.67
Plt. x10³/µl	1	231	222	453	406.5	2.29	0.89	9	7	0.47	0.27
Retic %	2	1.8	1.6	3.4	5	0.10	-0.62	0.2	0.26	0.02	-0.19

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs=02/100 WBCs , Poly=40 L=02, E=07, Mono/Promono=03 , B1=01 P.M.=02, Mye=36, Meta=09, Other=	Poly: 35 - 65, Myelo: 10 - 30, Meta: 5 - 15, Blast/Lympho/Promyelo: 1 - 10, nRBC/Baso/Eos/Mono: 0 - 5
RBC Morphology	3	Hypo+ normocytic	Predominantly: Normocytic/Normochromic; Moderate: Microcytosis, Anisocytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	CMPN/CML chronic phase	Chronic Myeloid Leukemia (CML)

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COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist.	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	249	276	80.43	91.3	5.8	1.45	13.04	6.16
RBC $x10^6/\mu l$	1	249	276	88.04	90.58	6.16	2.54	5.07	6.16
Hb g/dl	1	249	276	88.77	90.58	5.07	4.35	5.8	4.71
HCT%	1	249	276	90.22	89.13	3.99	3.62	5.07	6.52
MCV-fl	1	249	276	86.59	93.12	9.06	0.72	3.62	5.43
MCH-Pg	1	249	276	86.23	94.57	7.61	1.45	5.43	3.26
MCHC-g/dl	1	249	276	87.68	89.49	6.52	5.43	5.07	4.35
Plt. $x10^3/\mu l$	1	249	276	86.59	88.04	6.16	5.8	6.52	5.43
ReticCount%	2	249	253	95.65	81.82	2.77	0.79	1.58	17.79
PS Assessment	3	249	257	Acceptable:94.4,Warning Signal:4.0,Unacceptable :1.6					

***Comments:**

1). Among Lab (EQA) : CBC result for *WBC* unacceptable, may be due to random/human error

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,

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