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. : 4043 **Distribution No.:** 161-K **Month/Year:** October/2023

Instrument ID: ERBA **Model Name.:** H360 **Serial No.:** k10012222094

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi, Tel: 9013085730 , E-Mail : accuracy2000@gmail.com

Date of issue & status of the report: 29-01-2024[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	4.02	3.99	8.01	7.7	0.043	0.30	0.03	0.1	0.006	-0.79
RBC x10⁶/µl	1	4.86	4.84	9.7	9.43	0.010	1.20	0.02	0.05	0.003	-0.58
Hb g/dl	1	14.3	14.2	28.5	28.4	0.030	0.15	0.1	0.1	0.008	0.00
HCT%	1	45.1	45.1	90.2	86.05	0.190	0.86	0	0.5	0.028	-1.12
MCV-fl	1	93	92.8	185.8	183	0.333	0.33	0.2	0.2	0.023	0.00
MCH-Pg	1	29.5	29.3	58.8	60.2	0.070	-0.86	0.2	0.2	0.017	0.00
MCHC-g/dl	1	31.7	31.5	63.2	66	0.145	-0.79	0.2	0.3	0.020	-0.34
Plt. x10³/µl	1	123	118	241	255.5	2.060	-0.28	5	5	0.396	0.00
Retic %	2	4	3.6	7.6	15	0.317	-0.84	0.4	0.4	0.027	0.00

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly=80 L=12, E=02, Mono/Promono=05 , B1= P.M.=, Mye=, Meta=, Other=	Poly: 73-80 , Lympho: 15-22 , Mono: 2-4, Eosino: 1-2 , Blast/Promyelo/Myelo/Meta: 0-5
RBC Morphology	3	Aniso+micro+hypo+poik+target cell present	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Poikilocytosis , Target cells , tear drop cells
Diagnosis	3	THALASSEMIA	Sickle cell-Beta Thalassemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 161--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 $x10^3/\mu l$	1	272	269	84.01	89.96	3.35	4.83	12.64	5.21
RBC $x10^6/\mu l$	1	272	272	83.46	94.49	6.25	1.84	10.29	3.67
Hb g/dl	1	272	272	88.24	89.71	6.62	3.68	5.14	6.61
HCT%	1	272	268	92.54	93.28	4.48	3.73	2.98	2.99
MCV-fl	1	272	268	93.28	88.43	4.85	7.46	1.87	4.11
MCH-Pg	1	272	268	87.69	92.54	7.84	4.48	4.47	2.98
MCHC-g/dl	1	272	268	91.42	91.04	5.97	4.85	2.61	4.11
Plt. $x10^3/\mu l$	1	272	268	92.91	88.81	5.97	6.34	1.12	4.85
ReticCount%	2	272	224	94.64	89.73	3.57	7.14	1.79	3.13
PS Assessment	3	272	208	Satisfactory :88.98%, Borderline Sat. :3.30%, Unsatisfactory :7.72%					

*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. Manoranjan Mahapatra (Prof. & Head)
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