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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. : 3109 **Distribution No.:** 163-H **Month/Year:** March/2024

Instrument ID: NIHON KOHDEN **Model Name.:** MEK - 1301 **Serial No.:** SN - 00307

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

Date of issue & status of the report: 24-05-2024[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 x10^3/µl	1	7.83	7.68	15.51	15.8	0.082	**-0.21**	0.15	0.11	0.014	**0.27**
RBC x10^6/µl	1	4.8	4.77	9.57	9.15	0.013	**1.67**	0.03	0.04	0.004	**-0.22**
Hb g/dl	1	12.65	12.54	25.19	24.2	0.030	**1.67**	0.11	0.1	0.010	**0.13**
HCT%	1	40.5	40.2	80.7	77.6	0.243	**0.61**	0.3	0.4	0.032	**-0.27**
MCV-fl	1	84.4	84.3	168.7	168.7	0.425	**0.00**	0.1	0.2	0.026	**-0.34**
MCH-Pg	1	26.5	26.1	52.6	52.8	0.083	**-0.11**	0.4	0.2	0.022	**0.90**
MCHC-g/dl	1	31.5	31	62.5	62.2	0.191	**0.08**	0.5	0.3	0.016	**0.67**
Plt. x10^3/µl	1	239	231	470	475	3.248	**-0.08**	8	7	0.553	**0.15**
Retic %	2										

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly= L=, E=, Mono/Promono= , B1= P.M.=, Mye=, Meta=, Other=	Poly: 60-68, Lympho: 24-33, Mono: 2-5, Eosino: 1-2, blast/Promyelo/Myelo/Meta: 0-5
RBC Morphology	3		Predominantly: Normocytic/Normochromic, Microcytic, Hypochromic, Moderate: Anisopoikilocytosis, Target cells Mild: Elliptocytes
Diagnosis	3		Thalassemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 163--H	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	167	165	80.61	89.7	5.45	3.64	13.94	6.66
RBC $x10^6/\mu l$	1	167	167	89.22	89.22	4.19	4.79	6.59	5.99
Hb g/dl	1	167	167	89.82	91.02	4.19	4.19	5.99	4.79
HCT%	1	167	165	96.97	89.09	3.03	4.85	0	6.06
MCV-fl	1	167	165	97.58	96.36	2.42		0	3.64
MCH-Pg	1	167	165	91.52	91.52	3.64	4.24	4.84	4.24
MCHC-g/dl	1	167	165	93.33	89.7	3.64	3.64	3.03	6.66
Plt. $x10^3/\mu l$	1	167	165	89.09	91.52	7.88	5.45	3.03	3.03
ReticCount%	2	167	135	96.3	93.33	3.7	5.19	0	1.48
PS Assessment	3	167	124	Satisfactory :90.43%, Borderline Sat. :2.39%, Unsatisfactory :7.18%					

Comments:

1). Among Lab (EQA) : **PS Diagnosis not reported, 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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