



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. : 607

Distribution No.: 156-A

Month/Year: April/2022

Instrument ID: NIHON KOHDEN (MEK-6420P) (SERIAL NO.: 52464)

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: 08-07-2022[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	20.8	20.1	40.9	30.81	0.2690	0.98	0.7	0.21	0.0130	1.79
RBC x10 ⁶ /µl	1	6.49	6.39	12.88	12.23	0.0110	2.10	0.1	0.06	0.0030	0.77
Hb g/dl	1	13.5	13.3	26.8	25.9	0.0200	1.39	0.2	0.1	0.0070	0.67
HCT%	1	42.9	42.1	85	86.1	0.1480	-0.25	0.8	0.4	0.0240	0.90
MCV-fl	1	66.1	65.9	132	141.2	0.2110	-1.48	0.2	0.2	0.0200	0.00
MCH-Pg	1	20.8	20.8	41.6	42.4	0.0460	-0.63	0	0.2	0.0100	-1.35
MCHC-g/dl	1	31.6	31.5	63.1	59.8	0.1190	0.93	0.1	0.3	0.0200	-0.67
Plt. x10 ³ /µl	1	225	211	436	368	2.34	1.00	14	9	0.53	0.52
Retic %	2										

P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=01 , Poly=33 L=62, E=02, Mono/Promono=03 , B1= P.M.=, Mye=, Meta=, Other=
RBC Morphology	3	Lympho: 44-54, Poly: 40-49, Mono: 2-5, Eosino: 1-4, blast/Promyelo/Myelo/Meta: 0
Diagnosis	3	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Poikilocytosis , Target cells , Sickle shaped cells ,tear drop cells
		Dimorphic Anemia / Hemolytic Anemia
		Diagnosis- Thalassemia/haemoglobinopathy

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 156--A	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 x10³/µl	1	375	366	95.63	90.16	0.82	2.46	3.55	7.38
RBC x10⁶/µl	1	375	375	84.27	87.2	7.73	4.53	8	8.27
Hb g/dl	1	375	375	89.87	86.67	4.27	5.07	5.86	8.26
HCT%	1	375	365	90.96	87.95	4.93	6.03	4.11	6.02
MCV-fl	1	375	365	90.96	92.6	5.75	1.92	3.29	5.48
MCH-Pg	1	375	366	89.07	89.07	7.1	4.64	3.83	6.29
MCHC-g/dl	1	375	366	91.8	89.34	4.37	3.01	3.83	7.65
Plt. x10³/µl	1	375	366	93.44	90.98	4.1	3.55	2.46	5.47
ReticCount%	2	375	354	95.2	95.2	3.11	4.24	1.69	0.56
PS Assessment	3	375	345	Satisfactory :84.24%, Borderline Sat. :13.63%, Unsatisfactory :2.13%					

***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 $> \pm 3$: 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 $> \pm 3$ 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. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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