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

NABL Certificate No. PC - 1002

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

EQAP CODE No. : 3326 **Distribution No.:** 151-I **Month/Year:** August/2020

Instrument ID: ERMA PCE-210 (30452)

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: 23-10-2020[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	6	5.8	11.8	13.56	0.1090	-0.95	0.2	0.16	0.0180	0.25
RBC x10⁶/µl	1	4.26	4.15	8.41	8.3	0.0140	0.47	0.11	0.05	0.0510	1.16
Hb g/dl	1	11.9	11.6	23.5	25.15	0.0540	-1.89	0.3	0.1	0.0140	1.35
HCT%	1	41.9	40.5	82.4	80	0.3180	0.42	1.4	0.4	0.0470	2.00
MCV-fl	1	98.3	97.5	195.8	193.1	0.7000	0.25	0.8	0.4	0.0450	0.90
MCH-Pg	1	27.9	27.9	55.8	60.7	0.1230	-2.47	0	0.3	0.0350	-1.01
MCHC-g/dl	1	28.6	28.4	57	63.05	0.2490	-1.46	0.2	0.3	0.0290	-0.28
Plt. x10³/µl	1	239	223	462	407.5	2.11	1.49	16	6	0.66	1.25
Retic %	2	32	31	63	8.6	0.49	4.36	1	0.5	0.08	0.84

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=2 , Poly=26 L=2, E=4, Mono/Promono=9 , B1=4 P.M.=8, Mye=36, Meta=9, Other=0	Poly: 25-45, nRBC/Lymph/Mono/Eo/Pro/Blast: 0-5, Myelo: 20-40, Meta: 10-20, Baso: 0-4
RBC Morphology	3	Normocytic Normochromic, Macrocytes, Tear Drops, Nucleated Red Blood Cells, Polychromatophilic cells	Predominantly: Normocytic Normochromic, Anisocytosis. Moderate: Macrocytic. Mild: Microcytic
Diagnosis	3	Chronic Myelo Proliferative Neoplasm	Chronic Myeloid Leukemia-Chronic Phase [CML-CP]

EQAP Code No.: 3326 *Distribution No.: 151-I Month/Year: August/2020* *Instrument ID: ERMA PCE-210 (30452)*

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	200	128	84.38	86.72	3.91	1.56	6.25	7.03
RBC $x10^6/\mu l$	1	200	128	88.28	82.81	3.91	3.91	3.13	8.59
Hb g/dl	1	200	128	86.72	52.34	4.69	31.25	3.91	11.72
HCT%	1	200	128	89.84	82.81	4.69	3.91	0.78	8.59
MCV-fl	1	200	128	86.72	89.06	6.25	0.78	2.34	5.47
MCH-Pg	1	200	128	83.59	85.94	8.59	3.91	3.13	5.47
MCHC-g/dl	1	200	128	89.84	85.94	4.69	4.69	0.78	4.69
Plt. $x10^3/\mu l$	1	200	128	86.72	89.06	4.69	2.34	3.91	3.91
ReticCount%	2	200	108	86.11	82.41	5.56	4.63	8.33	12.96
PS Assessment	3	200	118	Acceptable:82.8%, Warning Signal:27.2%, Unacceptable :0%					

Comments:

1). Among Lab (EQA) : *RETIC* result is 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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