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. : 1597 **Distribution No.:** 149-C **Month/Year:** November/2019

Instrument ID: I COUNT 5

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

Date of issue & status of the report: 24-12-2019[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	17.4	17.2	34.6	30.11	0.0150	3.19	0.2	0.2	0.0050	0.00
RBC x10^6/µl	1	3.2	3.2	6.4	6.74	0.0070	-2.08	0	0.03	0.0010	-0.81
Hb g/dl	1	11.7	11.5	23.2	23.3	0.0180	-0.17	0.2	0.1	0.0060	0.67
HCT%	1	37.1	36.4	73.5	74.05	0.1400	-0.13	0.7	0.3	0.0170	1.08
MCV-fl	1	113.8	113.2	227	219	0.3040	0.77	0.6	0.3	0.0180	0.81
MCH-Pg	1	35.8	35.7	71.5	69.2	0.0530	1.24	0.1	0.3	0.0110	-0.67
MCHC-g/dl	1	31.6	31.5	63.1	63.1	0.1270	0.00	0.1	0.3	0.0110	-0.67
Plt. x10^3/µl	1	342	339	681	823	1.05	-2.20	3	8	0.30	-0.66
Retic %	2	5.4	5.1	10.5	7.2	0.16	0.65	0.3	0.4	0.02	-0.34

All are perfect

Good

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=---- , Poly=stab-10% L=01%, E=01%, Mono/Promono=01% , B1=02% P.M.=04%, Mye=09%, Meta=07%, Other=----	Poly: 65-75, nRBC/Lymph/Eo/Mono/blast/pro: 0-5, Myelo: 10-15, Meta: 5-12, Baso: 0-2
RBC Morphology	3	NO SIGNIFICANT POLYCHROMASIA	Predominantly: Normocytic Normochromic, Moderate: Anisocytosis, Mild: Microcytic
Diagnosis	3	chronic myeloid leukemia-chronic phase	Chronic Myeloid Leukemia (Chronic Phase) [CML-CP]

EQAP Code No.: 1597 *Distribution No.: 149-C Month/Year: November/2019 Instrument ID: I COUNT 5*

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	450	373	89.81	93.03	4.29	3.22	5.63	3.49
RBC $x10^6/\mu l$	1	450	373	87.67	89.01	6.7	3.75	5.36	6.7
Hb g/dl	1	450	373	86.33	88.74	6.97	3.22	6.43	7.77
HCT%	1	450	373	96.51	89.54	1.34	4.29	1.88	5.09
MCV-fl	1	450	373	94.1	94.37	3.49	1.07	2.14	4.29
MCH-Pg	1	450	373	88.74	91.96	4.02	3.75	6.97	4.02
MCHC-g/dl	1	450	373	92.23	87.4	5.09	5.63	2.41	6.17
Plt. $x10^3/\mu l$	1	450	373	86.6	90.35	6.7	3.49	6.43	5.9
ReticCount%	2	450	266	90.23	95.49	4.89	0.38	3.01	6.77
PS Assessment	3	450	354	Acceptable:97%,Warning Signal:2.2%,Unacceptable :0.8%					

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,

Dr. R. Saxena
Prof & Head, Hematology, AIIMS, Delhi.
PT Co-ordinator: ISHTM-AIIMS-EQAP

----------End Of Report----------

LAB MONTHLY SUMMARY

Lab Name BALAJI MEDICAL CENTRE

Lab No 5817

Year 2020

Month January

Constituent Group Chemistry II

Date of Result Entered : 13/01/2020

Date of Report Published : 11/02/2020

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	Participants DV	Participants CV	Participants SD	Your Value	SDI	U
1	GLUCOSE I	GOD-POD	OTHERS (Any other Analyzer)	850	134.43	9.69	13.03	142 mg/dl	0.58	0.89
2	UREA I	UREASE BERTHELOT	OTHERS (Any other Analyzer)	281	39.56	14.36	5.68	36.8 mg/dl	-0.49	0.68
3	T.BILIRUBIN I	DIAZONIUM SALT (Colorimetric) /JENDRASSIK	OTHERS (Any other Analyzer)	597	2.04	21.38	0.44	2 mg/dl	-0.09	0.04
4	T-PROTEIN I	BIURET - colorimetric	OTHERS (Any other Analyzer)	690	5.22	11.48	0.60	5.3 g/dl	0.13	0.05
5	ALBUMIN I	BCG - colorimetric	OTHERS (Any other Analyzer)	674	3.19	10.36	0.33	3.01 g/dl	-0.54	0.03
6	URIC ACID I	ENZYMATIC / URICASE Colorimetric	OTHERS (Any other Analyzer)	631	5.96	15.93	0.95	5.9 mg/dl	-0.06	0.08
7	TRIGLYCERIDE I	GPO-PAP / Enzymatic Colorimetric / End Point	OTHERS (Any other Analyzer)	766	115.15	15.91	18.32	108.9 mg/dl	-0.34	1.32

Perfect

SDI Range	Interpretation
Within -1.0 to +1.0	Excellent.
Between ±1.0 to ±2.0	Good.
Between ±2.0 to ±3.0	Accept with caution. Warning Signal.
Beyond ±3.0	Unacceptable performance. Action Signal.

All are within -1.0 to 1.0 (Excellent)

Homogeneity and Stability of the sample is passed.

Pamela Christudoss

Dr. Pamela Christudoss
CMC EQAS Co-Ordinator
Christian Medical College, Vellore

******* End of Report ******

LAB MONTHLY SUMMARY

Lab Name BALAJI MEDICAL CENTRE

Lab No 5817

Year 2020

Month January

Constituent Group HbA1c

Date of Result Entered : 13/01/2020

Date of Report Published : 11/02/2020

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants CV	Participants SD	Your Value	SDI	U
1	HbA1c	TURBIDIMETRIC INHIBITION IMMUNO ASSAY	OTHERS (Any other Analyzer)	171	5.33	11.42	0.61	5.3 %	-0.05	0.09

SDI Range	Interpretation
Within -1.0 to +1.0	Excellent.
Between ±1.0 to ±2.0	Good.
Between ±2.0 to ±3.0	Accept with caution. Warning Signal.
Beyond ±3.0	Unacceptable performance. Action Signal.

Homogeneity and Stability of the sample is passed.

Pamela Christudoss

Dr. Pamela Christudoss
CMC EQAS Co-Ordinator
Christian Medical College, Vellore

********* End of Report ********