Operator

ID. 6410907
Date 2021/08/02
Time 16:26
Mode WB

WBC		12.1	×10³/μL
RBC	+	6.29	×10⁶/μL
HGB		16.3	g/dL
HCT	+	50.1	%
MCV	-	79.7	fL
MCH	-	25.9	pg
MCHC		32.5	g/dL
PLT	AG*	451	×10³/μL

LYM%	T1	---.-	%
MXD%	T1	---.-	%
NEUT%	T1	---.-	%
LYM#	T1	---.-	×10³/μL
MXD#	T1	---.-	×10³/μL
NEUT#	T1	---.-	×10³/μL

RDW-SD		50.4	fL
RDW-CV	+	19.8	%
PDW	DW	---.-	fL
MPV	DW	---.-	fL
P-LCR	DW	---.-	%
PCT	DW	--.--	%

ResearchW	12.147	×10³/μL
ResearchS	---.---	×10³/μL
ResearchM	---.---	×10³/μL
ResearchL	---.---	×10³/μL

Operator

ID. 6410905
Date 2021/08/02
Time 15:33
Mode WB

WBC		12.7	×10³/μL
RBC	+	6.25	×10⁶/μL
HGB		16.2	g/dL
HCT		50.0	%
MCV	-	80.0	fL
MCH	-	25.9	pg
MCHC		32.4	g/dL
PLT	AG*	463	×10³/μL

LYM%	T1	---.-	%
MXD%	T1	---.-	%
NEUT%	T1	---.-	%
LYM#	T1	---.-	×10³/μL
MXD#	T1	---.-	×10³/μL
NEUT#	T1	---.-	×10³/μL

RDW-SD		51.0	fL
RDW-CV	+	19.8	%
PDW	DW	---.-	fL
MPV	DW	---.-	fL
P-LCR	DW	---.-	%
PCT	DW	--.--	%

ResearchW	12.719	×10³/μL
ResearchS	---.---	×10³/μL
ResearchM	---.---	×10³/μL
ResearchL	---.---	×10³/μL

(https://www.ishtmaiimseqap.com)

ISHTM-AIIMS EXTERNAL QUALITY ASSURANCE PROGRAMME

NABL accredited programme as per ISO/IEC 17043:2010 standard

Organized By,

Department of Hematology, AIIMS, New Delhi-110029

NABL Certificate No PC-1002

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MY SUBMITTED REPORTS

EQAP Code	Distribution No	Distribution Section	Instrument Id	Month/Year	NO.1WBC	NO.1WBC	NO.1RBC	No.1RBC
1169	153	C	sysmex xp100 A5203	July/2021	12.7	12.1	6.29	6.25
1169	152	C	A 5203 SYSMEX SP-100	January/2021	4.1	4.0	3.22	3.19
1169	151	C	SYSMEX - XP 100 A5203	August/2020	3.5	3.4	2.85	2.61
1169	150	C	SYSMEX-XP100 A5203	February/2020	2.7	2.6	4.57	4.56
1169	149	C	A 5203	November/2019	15.4	15.4	3.28	3.22
1169	148	C	SYSMEX - XP -100 S.NO.-A-5203	August/2019	5.0	5.0	3.83	3.78
1169	147	C	SYSMEX XP-100 A-5203	May/2019	5.2	5.2	3.49	3.49
1169	146	C	SYSMEX XP-100 A-5203	February/2019	9.5	9.5	3.95	3.98

EQAP Code	Distribution No	Distribution Section	Instrument Id	Month/Year	NO.1WBC	NO.1WBC	NO.1RBC	No.1RBC
1169	145	C	SYSMEX XP-100 A-5203	November/2018	3.0	3.0	4.55	4.53
1169	144	C	Sysmex XP-100 A-5203	August/2018	16.2	16.1	5.53	5.44
1169	143	C	Poch 100i-B1679	May/2018	10.5	10.4	4.85	4.84
1169	142	C	pOCH-100I B1679	February/2018	2.5	2.5	4.25	4.25
1169	141	C	PO-B1679	November/2017	4.9	4.9	4.33	4.33
1169	140	C		August/2017	4.1	4.1	4.23	4.22
1169	139	C		May/2017	4.3	4.3	2.75	2.75

ABOUT US

In the modern medical system, a clinician is largely dependent upon laboratory and other investigations for proper treatment of a patient. It is therefore important to maintain quality in laboratory tests. This involves maintenance of accuracy and precision of test results. Participation of a laboratory in an external quality assurance program (EQAP) is essential in ascertaining the accuracy of tests. Department of Hematology,

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- Legal (https://www.ishtmaiimseqap.com/legal-policy)
- Instruction to Participant (https://www.ishtmaiimseqap.com/assets/front/images/instruction_sheet1.

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ISHTM-AIIMS External Quality Assurance Programme

+91 - 90-1308-5730,
+91 - 70-4290-5736

accuracy2000@gmail.com (mailto:accuracy2000@gmail.com)

EQAS											
Name of the labora	ASHOK NURSING HOME- DEPARTMENT OF LABORATORY MEDICINE, KRISHNA NAGAR, DELHI										
Lab ID	M-0753										
Addres	F-3/15-16, VIJAY CHOWK, KRISHNA NAGAR, DELHI-110051										
EQAS Program	ISHTM -EQAP- AIIMS- 2020 & 2021										
Organising body	AIIMS										
Discipli	Haematology										
Cycle		Nov, 2019		Feb, 2020		Aug, 2020		Jan, 2021			
S.No	Parameter	Z score/En Value/SDI/ VIS	Details of root cause analysis in case of unsatisfactory performance	Z score/En Value/SDI/VIS	Details of root cause analysis in case of unsatisfactory performance	Z score/En Value/SDI/VI S	Details of root cause analysis in case of unsatisfactory performance	Z score/En Value/S DI/VIS	Details of root cause analysis in case of unsatisfactory performance	Z score/En Value/SDI/ VIS	Details of root cause analysis in case of unsatisfactory performance
	WBC	0.49		2.26		1.01		0.83			
	RBC	-1.47		-0.96		2.16		-1.29			
	HB	-0.17		-0.67		0.22		-0.96			
	HCT	-1.55		-0.66		0.35		-0.99			
	MCV	-1.03		-0.41		0.06		-0.53			
	MCH	1.19		0.25		-0.62		0.43			
	MCHC	1		0.54		-0.34		0.8			
	PLT	58		1.22		1.25		0.21			
	RETIC. COU	-0.34		0.44		0.44		-0.24			
	Among labs (EQA)			satisfactory results							
	Within lab (IQA)			satisfactory precision							

Z SCORE CRITERIA			ACCEPTABILITY
0- ±2			Acceptable
±2 - ± 3			Warning signal
> ±3			Unacceptable

As per ISO/ IEC 13528:2015 standard

EQAS PERFORMANCE SUMMARY

Sl. No	EQAS Agency	Sample Testing Date	Cycle No/ Sample No	Parameter Outlier	Remarks & Corrective Action Taken	Reviewed By
1.	ISHTM AIIMS	~~Aug~~ 2020	15~~1~~-C	RBC Lab Precision out of allowable range.	Precision check done. Current precision = 1-2%	

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. : 1169 **Distribution No.:** 152-C **Month/Year:** January/2021

Instrument ID: A 5203 SYSMEX SP-100

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: 25-02-2021[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	4.1	4	8.1	7.2	0.0350	**0.83**	0.1	0.1	0.0060	0.00
RBC x10^6/µl	1	3.22	3.19	6.41	6.63	0.0070	**-1.29**	0.03	0.03	0.0020	0.00
Hb g/dl	1	11.2	11	22.2	22.7	0.0190	**-0.96**	0.2	0.1	0.0070	1.35
HCT%	1	33.3	33	66.3	71.4	0.1540	**-0.99**	0.3	0.3	0.0230	0.00
MCV-fl	1	103.4	103.4	206.8	213.95	0.3740	**-0.53**	0	0.3	0.0270	-0.58
MCH-Pg	1	35.1	34.2	69.3	68.5	0.0680	**0.43**	0.9	0.3	0.0200	1.62
MCHC-g/dl	1	33.9	33	66.9	63.4	0.1230	**0.80**	0.9	0.3	0.0190	1.62
Plt. x10^3/µl	1	152	143	295	288.5	1.12	**0.21**	9	4	0.25	1.35
Retic %	2	6	5.6	11.6	13	0.20	**-0.24**	0.4	0.5	0.02	-0.27

P.S . Assesment

	YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=22 L=72, E=0, Mono/Promono=00 , B1=0 P.M.=00, Mye=00, Meta=00, Other=6 SMUDGE CELLS[[lymphocyte]	Lympho: 75-90, Poly: 5-15, Mono: 1-5, nRBC/Blast/Eo/Myelo/Meta: 0-1
RBC Morphology	3	normocytic,hypochromoic	Predominantly: Normocytic/Normochromic, Moderate: Anisocytosis, Mild: Microcytosis, Hypo.
Diagnosis	3	CHRONIC LYMPHOCYTIC LEUKEMIA	Chronic Lymphocytic Leukemia (CLL)

EQAP Code No.: 1169 *Distribution No.: 152-C Month/Year: January/2021* *Instrument ID: A 5203 SYSMEX SP-100*

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	333	344	91.57	85.76	4.94	6.4	2.91	6.1
RBC $x10^6/\mu l$	1	333	344	87.79	90.7	6.4	4.36	5.23	3.2
Hb g/dl	1	333	344	87.21	88.37	7.56	5.23	4.36	5.52
HCT%	1	333	344	96.51	89.53	2.33	4.07	0.58	4.65
MCV-fl	1	333	344	98.55	93.02	0.58	3.2	0.29	3.2
MCH-Pg	1	333	344	88.66	88.95	7.27	6.4	3.49	3.2
MCHC-g/dl	1	333	344	96.8	91.28	2.33	3.49	0.29	4.07
Plt. $x10^3/\mu l$	1	333	344	91.28	92.73	6.1	4.94	2.03	1.74
ReticCount%	2	333	329	94.22	90.88	3.65	1.22	2.43	8.21
PS Assessment	3	333	339	Acceptable:92.5,Warning Signal:2.7,Unacceptable :4.8					

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.

Report authorized by,

Dr. Seema Tyagi (Prof.)
PT Co-ordinator: ISHTM-AIIMS-EQAP
Department of Hematology, AIIMS, New Delhi

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

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. : 1169 **Distribution No.:** 151-C **Month/Year:** August/2020

Instrument ID: SYSMEX -XP 100 A5203

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: 27-11-2020[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 x10^3/µl	1	3.5	3.4	6.9	6.3	0.0220	**1.01**	0.1	0.1	0.0570	**0.00**
RBC x10^6/µl	1	2.85	2.61	5.46	5.14	0.0050	**2.16**	0.24	0.02	0.0130	**7.42**
Hb g/dl	1	7.7	7.6	15.3	15.2	0.0160	**0.22**	0.1	0.1	0.0070	**0.00**
HCT%	1	23.9	23.4	47.3	46.3	0.1090	**0.35**	0.5	0.2	0.0110	**1.35**
MCV-fl	1	90.2	89.7	179.9	179.4	0.3260	**0.06**	0.5	0.4	0.0270	**0.19**
MCH-Pg	1	29.1	29.1	58.2	59.4	0.1530	**-0.62**	0	0.3	0.0240	**-1.01**
MCHC-g/dl	1	32.5	32.2	64.7	66.1	0.0720	**-0.34**	0.3	0.4	0.0190	**-0.27**
Plt. x10^3/µl	1	267	266	533	473	1.56	**1.25**	1	6	0.35	**-0.96**
Retic %	2	3.6	3.2	6.8	5	0.13	**0.44**	0.4	0.2	0.02	**0.67**

P.S . Assesment

	YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=00 , Poly=24 L=04, E=04, Mono/Promono=00 , B1=00 P.M.=12, Mye=22, Meta=16, Other=18 BAND FORM	Poly: 25-50, Lymph; 2-7, nRBC/Mono/Eo/Blast/Pro: 0-5, Myelo: 20-35, Meta: 15-25, Baso: 0-3
RBC Morphology	3	NORMOCHROMIC NORMOCYTIC RBCS	Predominantly: Normocytic Normochromic. Moderate: Anisocytosis. Mild: Microcytic.
Diagnosis	3	MYLEOPROLIFERATIVE DISORDER	

EQAP Code No.: 1169 *Distribution No.: 151-C Month/Year: August/2020* *Instrument ID: SYSMEX -XP 100 A5203*

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 $x10^3$/µl	1	450	333	87.09	90.09	4.2	3.6	8.71	6.01
RBC $x10^6$/µl	1	450	333	87.39	90.09	8.41	4.5	4.2	4.8
Hb g/dl	1	450	333	87.69	92.49	5.71	4.2	6.61	3.3
HCT%	1	450	333	90.69	92.49	6.01	3	3	3.9
MCV-fl	1	450	333	89.79	91.89	8.41	5.41	1.8	2.7
MCH-Pg	1	450	333	86.79	91.59	7.21	4.2	6.01	3.3
MCHC-g/dl	1	450	333	90.69	92.49	6.61	4.5	2.7	2.7
Plt. $x10^3$/µl	1	450	333	94.59	89.79	3.9	6.91	1.5	3.3
ReticCount%	2	450	291	93.47	87.97	4.81	2.41	1.72	12.03
PS Assessment	3	450	328	Acceptable:75.1%,Warning Signal:24.9%,Unacceptable :0%					

Comments:

1). Among Lab (EQA) : Results acceptable.

2). Within Lab (IQA) : Difference in the CBC measurement values for *RBC* unacceptable, may be due to random/human error.

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. Seema Tyagi (Prof.)
PT Co-ordinator: ISHTM-AIIMS-EQAP
Department of Hematology, AIIMS, New Delhi

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