

Accident /Incident Reporting form

1.Accident reporting

The WBC parameter in the AIIMS hematology EQA was found to be unsatisfactory with Z score of 2.58 among labs and Z score of 8.81 within lab which was released on 22-02-2022.

Reported by

Name & Sign: Dr Nikhil Sanjay Deshpande

Date & Time: 23-02-2022 at 10.00am.

2. Immediate action taken

The EQA report was analysed. Routine IQC samples were run and were found satisfactory. Further to find out the cause for EQA unsatisfactory result root cause analysis was undertaken in a step wise manner.

Action taken by

Name & Sign: Dr Nikhil Sanjay Deshpande

Date & Time: 23-02-2022 at 10.30am.

Reviewed by: Dr N N Angarkar

3. Root cause analysis

The following steps were analysed to reach the root cause analysis of the unsatisfactory results.

- i. Check for transcription errors
- ii. Check for pre survey issues
- iii. Sample receipt / handling
- iv. Test performance
- v. Data handling by EQA provider



vi. Report and Interpretation.

As per these steps, after thorough discussion, it was concluded that the unsatisfactory results may be due to overmixing of the EQA sample before the run may be the cause for the deviation of WBC parameter. Rest all steps were satisfactory.

Action taken by

Name & Sign: Dr Nikhil Sanjay Deshpande

Date & Time: 24-02-2022 at 11.00am.

Reviewed by: Dr N N Angarkar

4. Corrective and preventive measures

To prevent the same from happening again, in next cycle EQA samples will be handled carefully and according the EQA guidelines. Proper mixing of the sample will be insured by the technical persons and supervised by the lab manager.

Action taken by (Name/Sign / Date / Time)	Reviewed by (Name/Sign / Date / Time)		
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1MS (DU), Loi, Bk, 13725 Designation	Designation		
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5. N. Jayle 24/02/2022 11.30 97

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PROFICIENCY TESTING REPORT
ISHTM-AIMS EXTERNAL QUALITY ASSURANCE PROGRAMME
NABL accredited program as per ISO/IEC 17043:2010 standard
Organized By Department of Hematology, AIIMS, New Delhi-110029

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

EQAP CODE No.: 1120

Distribution No.: 153-D

Month/Year: August/2021

Instrument ID: SYSMEX XN 3100

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: 13-09-2021[Final].

CBC and Retic Assessment

Test Parameters	150 30	Among Lab (Accuracy Testing)					Within Lab (Precision Testing)				
	S.No.	Your Result 1	Yeur Result 2	Pesults	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values		Yours Results Diff. of 2 Values	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score
МЕС ≭1С₃\п́Т	in it	2.5	2.57	5.17	5.5	0.0230	-0.57	0.03	0.08	0.0050	-0.75
EUC x16*/pl	1	2.93	3.92	7.85	7,54	0.0070	1.67	0.01	0.03	0.0020	-0.54
Fb g/dl	\$ 1	12.4	12.2	24.6	23.8	0.0200	1.54	0.2	0.1	0.0070	1.35
нст%	1	38.9	38.7	77.6	74.3	0.1290	0.90	0.2	0.3	0.0230	-0.27
MCV-fi	1	99	98.7	197.7	196.6	0.2900	0.13	0.3	0.3	0.0250	0.00
MCH-Pg	1	31.6	31.1	62.7	63.1	0.0300	-0.26	0.5	0.2	0.0160	1.35
MCHC-g/dl	1	31.9	3L5	63.4	64.2	0.1170	-0.25	0.4	0.2	0.0170	0.90
Pit. x10³/μl	1	125	.123	248	222	1.09	0.82	2	4	0.28	-0.39
Retic %	2	1.9	1.6	3.5	1.2	0.03	2.82	0.3	0.1	0.01	2.70

P.S . Assesment

51.65 Per 1	107	YOUR REPORT	CONSENSUS REPORT INCHARGE
DLC%	3	Nrbcs=-, Poly=33% L=3%, E=3%, Mono/Promono=0, B1=3% P.M.=6%, Mye=40%, Meta=11%, Other=Basophils- 1%.	Poly: 40 - 60, Myelo: 10 - 25, Meta: 5 - 20, Promyelo: 1-10,MC,LoninRBC/Lympho/Blast/Eos/Baso/Mono: 0 - 5
RBC Morphology	3	Microcytes +	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	Chronic Myeloid Leukemia (Chronic phase).	Chronic Myeloid Leukemia (Chronic Phase)



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EQAP Code No.: 1120 Distribution No.: 153-D Month/Year: August/2021 Instrument ID: SYSMEX XN 3100

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	Within	Among labs	Within lab
WBC x10 ³ /µl	1 8	317.	315	84.76	87.94	3.49	- 1.59	11.75	9.84
REC x105/pl	1	317	315	92.7	.91.11	4.13	3.81	3.17	4.76
Hb g/dl	1-5	317	315	83.25	91.75	6.67	0.32	5.08	4.44
HCT%	1.5	317	315	95.24	90.16	2.22	3.49	2.54	6.03
MCV-fl	1.30	317	315	96.51	92.7	2:22	3.17	1.27	4.13
MCH-Pg	1 39	317	315	88.57	91.75	8.25	3.49	3.17	4.15
MCHC-g/dl	1 15	317	315	94.6	88.25	3.49	3.17	1.9	2.57
Plt x103/pl	1 8	317	315	93.33	90.48	4.44	4.13		
ReticCount's	2 15	317	283	90.45	87.63	4.95	,	2.22	5.4
PS Assessment	3 %	317		Acceptable			6.71 mal:1.35%	J.89 Unaccenta	5.65

Comments:

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

2). Within Lab (IQA): Frecision 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 IQE)

IQR = Quartile 3 - Quartile 1 of participant data, Normalised $IQR = 0.7413 \times IQR$

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 $> \pm 3$ 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 $(\overline{x},\overline{y})$ 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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Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AlIMS, New Delhi

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