LifeWell	PT EQAS RESULT REVIEW FORM

Issued by QA:

Department: HEMATOLOGY	**Month / Year:** May 2023
PT Provider: Metropolis Healthcare	**Distribution / Lot No:** 23104
Analyte(Test): PLT, RBC, TLC, DLC, HG, MCV, MCH, MCHC, HCT, RDW, CV%	
Machine used: AD3900 plus	**Kit used:** ASPEN
Test done by: Abhishek	**Done on:** 10/05/2023
Report uploaded by: Abhishek	**Report uploaded on:** 12/05/2023
Software used: Online web Portal	
EQAS Report received on 19/05/2023	
Reviewed by: Abhishek 22/05/2023 **Approved by:** 22-5-2023	
Observations: PLT, RBC	

*If results are ungraded, please attach self-assessment.If satisfactory no corrective and preventive action required. But if unsatisfactory, corrective and preventive action is required with optimum evidence.

Self-Assessment Result: ☐ Satisfactory ☑ Unsatisfactory

Attachment: ☑ Yes ☐ No

Please investigate failure for unsatisfactory performance and submit a report to QA and Medical Director in _____ Days.

Approved by

Signature
(Lab Director/Designee)

LifeWell Diagnostics Pvt. Ltd.

METROPOLIS EQASPLUS PROFICIENCY. TRAINING. EXCELLENCE

Metropolis Healthcare Ltd., EQAS

LIFEWELL DIAGNOSTICS PVT LTD (LAJPAT NAGAR) (875)

Outlier And Analyte Summary Report

Outlier Details For Cycle No 230104 and Sample No 01 **Report Date :** 19/05/2023

Analyte	Instrument	Result Value	Standard Unit
No Outlier			

Legend @ : Acceptable
X : Unacceptable
: Not Evaluated
Delayed Result Entry

Problem Classification: There is No problem all Result are acceptable and within limit.

Corrective Action: There is No need for corrective action All value are accepted.

Reviewed by: Lifewell Diagnostics Pvt. Ltd.

Dated: 22/05/2023

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Outlier And Analyte Summary Report

Result Details For Cycle No 230104 and Sample No 01

Report Date : 19/05/2023

Instrument : -

Analyte	Standard Unit	Result Value	Accepted Value
@ Neutrophil.	-	40-70%	40-70%
@ Lymphocyte.	-	20-40%	20-40%
@ Eosinophil.	-	<6%	<6%

Legend @ : Acceptable
@ : Acceptable
X : Unacceptable
: Not Evaluated
⏲ : Delayed Result Entry

Total Parameters	3
Not Evaluated Parameters	0
Evaluated Parameters	3
Outlier Parameters (X)	0
EQAS Score Haematology-PS Slide Count Qualitative	100.00 %

Dr Puneet Kumar Nigam
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Outlier And Analyte Summary Report

Outlier Details For Cycle No 230104 and Sample No 03

Report Date : 19/05/2023

Analyte	Instrument	Result Value	Standard Unit	Z-Score
* Platelet Count	Aspen AD-3200 Plus	0.37	1000/ µL	*

Legend @ : z score ≤ 2.0 - Acceptable
! : 2.0 < z score < 3.0 - Warning
X : z score ≥3 - Unacceptable
: Not Evaluated
🕒 : Delayed Result Entry
* : Not considered for evaluation.

Problem Classification:

There is difference in value imputation in EQAS portal other Result found satisfactory.

Corrective Action:

After taking Result cross check value with Machine data.

Reviewed by:

Lifewell Diagnostics Pvt. Ltd.

Dated: 22/05/2023

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Outlier And Analyte Summary Report

Result Details For Cycle No 230104 and Sample No 03

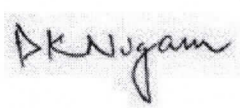
Report Date : 19/05/2023

Instrument : **Aspen AD-3200 Plus**

Analyte	Standard Unit	Result Value	Mean	Z-Score	RMZ
* Platelet Count	1000/ µL	0.37	--	-4.56 *	0.00
@ Erythrocyte (RBC) Count	mill/cu.mm	1.03	--	-0.71	18.42
@ Total Leucocytes (WBC) count	/c.mm	1200.00	--	-0.28	-0.03
@ Haemoglobin	g/dL	2.50	--	-0.16	-0.21
@ MCV (Mean Corpuscular Volume)	fL	110.10	--	-0.71	-0.40
@ MCH (Mean Corpuscular Hb)	pg	24.20	--	-0.03	0.14
@ MCHC (Mean Corpuscular Hb Concentration)	g/dL	22.10	--	0.78	0.73
@ Hematocrit	%	11.30	--	-1.08	-0.73
@ RDW CV%	%	17.70	--	-1.34	-1.06

Legend @ : Acceptable
! : 2.0 < z score < 3.0 - Warning
X : z score ≥3 - Unacceptable
: Not Evaluated
⏲ : Delayed Result Entry
* : Not considered for evaluation.

Total Parameters	9
Not Evaluated Parameters	0
Evaluated Parameters	9
Outlier Parameters (X)	1
EQAS Score Haematology - CBC	88.89 %



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Outlier And Analyte Summary Report

Outlier Details For Cycle No 230104 and Sample No 04

Report Date : 19/05/2023

Analyte	Instrument	Result Value	Standard Unit	Z-Score
X Erythrocyte (RBC) Count	Aspen AD-3200 Plus	8.80	10^6 /µL	37.54
* Platelet Count	Aspen AD-3200 Plus	2.02	1000/ µL	*

Legend @ : z score ≤ 2.0 - Acceptable
! : 2.0 < z score < 3.0 - Warning
X : z score ≥3 - Unacceptable
: Not Evaluated
⏲ : Delayed Result Entry
* : Not considered for evaluation.

Problem Classification: Error in Data Entry. Machin values are Satisfactory.

Corrective Action: We have Cross check with Machin Data, Machin Data is Not matched with portal Data. Re-training is given to the particular technician.

Reviewed by: Parkamol

Lifewell Diagnostics Pvt. Ltd.

Dated: 22/05/2023

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Outlier And Analyte Summary Report

Result Details For Cycle No 230104 and Sample No 04

Report Date : 19/05/2023

Instrument : **Aspen AD-3200 Plus**

Analyte	Standard Unit	Result Value	Mean	Z-Score	RMZ
X Erythrocyte (RBC) Count	mill/cu.mm	8.80	--	37.54	18.42
* Platelet Count	1000/ µL	2.02	--	-5.87 *	0.00
@ Total Leucocytes (WBC) count	/c.mm	8800.00	--	0.22	-0.03
@ Haemoglobin	g/dL	7.50	--	-0.25	-0.21
@ MCV (Mean Corpuscular Volume)	fL	132.50	--	-0.09	-0.40
@ MCH (Mean Corpuscular Hb)	pg	32.00	--	0.30	0.14
@ MCHC (Mean Corpuscular Hb Concentration)	g/dL	24.10	--	0.67	0.73
@ Hematocrit	%	31.00	--	-0.38	-0.73
@ RDW CV%	%	16.90	--	-0.78	-1.06

Legend @ : Acceptable
! : 2.0 < z score < 3.0 - Warning
X : z score ≥3 - Unacceptable
: Not Evaluated
🕒 : Delayed Result Entry
* : Not considered for evaluation.

Total Parameters	9
Not Evaluated Parameters	0
Evaluated Parameters	9
Outlier Parameters (X)	2
EQAS Score Haematology - CBC	77.78 %

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Outlier And Analyte Summary Report

Outlier Details For Cycle No 230104 and Sample No 01

Report Date : 19/05/2023

Analyte	Instrument	Result Value	Standard Unit
No Outlier			

Legend @ : Acceptable
X : Unacceptable
: Not Evaluated
Delayed Result Entry

Problem Classification: There is No outlayer found all data found Satisfactory

Corrective Action: Not Required

Reviewed by: Lifewell Diagnostics Pvt. Ltd.

Dated: 22/05/2023

LifeWell	INVESTIGATION FORM FOR UNACCEPTABLE PT/EQAS RESULTS

Issued by QUA:

Department	Heamtology		
PT provider	MHC		
Survey Name:			
Date Survey received	07/05/2023	Date Analysis Performed:	05/05/2023
Date Survey Results Submitted	17/5/2023	Date Results received:	28/05/2023

Investigation performed by	Anuj Kumar / Puneet Gupta / Abhishek		
Lab director		Date	

Unacceptable Result 1			
Specimen No.	Sample No. 4	Analyte	RBC
Reported result	8.80	Intended result/range	2.42
Acceptable Lower Limit	2.08	Acceptable Higher Limit	2.76
SD	–	CV%	–

Unacceptable Result 2			
Specimen No.	Sample No. 04	Analyte	Platelet
Reported result	2.02	Intended result/range	220.79
Acceptable Lower Limit	146.234	Acceptable Higher Limit	245.34
SD	–	CV%	–

Unacceptable Result 3			
Specimen No.	Sample No. 03	Analyte	Platelets
Reported result	0.87	Intended result/range	29.12
Acceptable Lower Limit	16.52	Acceptable Higher Limit	41.72
SD	–	CV%	–

EVALUATION OF POSSIBLE SOURCES OF ERROR

Clerical	Yes	No	N/A
Incorrect transcription of the result from the instrument read-out or report? (Check the raw data.)			✓
Incorrect instrument/method/reagent reported on the result form (Check instrument log book)			✓
Mis-match of the units of measure between the result form and the instrument results			✓
Incorrect decimal placement			✓
Errors in calculations.			✓
Mis-match between result reported on the 'result form' and on the 'proficiency testing evaluation report'			✓
Mis-match between result reported on the 'result form' and on the 'proficiency testing evaluation report'			✓

Any other clerical problem?			✓

A response of "**Yes**" to any of these questions may indicate a clerical error.

Although reporting of PT results is unlike those for patient results, clerical errors may indicate a need for additional staff training, review of instructions provided with PT or investigation of the reporting format provided by the testing device. If results reported on the result form do not match the results found on the evaluation report, please contact PT provider.

Procedural	Yes	No	N/A
Written procedure not followed			✓
Improper preparation of reagents			✓
Reagents open stability not within acceptable range			✓
Faulty standards run			✓
Unacceptable IQC results (Run accepted in non-linear range/though controls were out of range)			✓
Incorrect interpretation of microscopic examinations			✓
Incorrect dilution or pipetting error			✓
Incorrect staining or interpretation			✓
Time delay between reconstitution and analysis			✓
Media preparation related			✓
Antibiotic disc potency			✓
Any other procedural problem			✓

A response of "**Yes**" to any of these questions may indicate a procedural error. These errors indicate inappropriate operation of equipment or performance of a method.

A review of the instructions provided with the proficiency testing material and/or review of laboratory procedures may be required.

Analytical	Yes	No	N/A
Most recent calibration unacceptable or not within established stability limits at the time of PT			✓
Instrument repaired or replaced recently at time of PT run			✓
Review of past PT results indicate unevenly distributed data or a bias			✓
Intended result not within the measuring range for the instrument			✓
Was instrument maintenance performed on schedule?			✓
Review of records indicate there was related instrument/test problems noted prior to or after the PT was performed			✓
Any other analytical problem?			✓

A response of "**Yes**" to any of these questions may indicate an analytical error. These types of errors could indicate a failure to follow recommended instrument maintenance and calibration.

Specimen handling	Yes	No	N/A
Survey specimens not reconstituted as indicated in the Kit Instructions			✓
Survey specimens not stored as indicated in the Kit Instructions			✓
Special instructions provided in the Kit Instructions not performed as indicated			✓
Correct tests not performed on the correct vial of proficiency testing material			✓
Survey specimen mix-up			✓
Any other problem related to specimen handling?			✓
A response of "**Yes**" to any of these questions may indicate a specimen handling error. These types of errors could indicate a failure to read the material provided with the Surveys materials.			

PT Material	Yes	No	N/A
Late shipment			✓
Hemolysed sample			✓
Bacterial contamination			✓
Perceived survey bias			✓
Poor growth in culture			✓
Unstable PT material			✓
Matrix effect incompatible with method			✓
No comparable peer group			✓
Inappropriate peer group based on method reported on result form			✓
Acceptable range too low			✓
Any other problem?			✓
A response of "**Yes**" to any of these questions may indicate a problem with the PT material. If a delay in receipt of material in the laboratory is an issue, ensure timely receipt of Surveys after arrival in the institution. If you believe your result was compared to an inappropriate peer group, verify the method reported on the result form. Contact PT provider for additional information if needed.			

Miscellaneous	Yes	No	N/A
Was analysis performed by technically competent personnel? (Check technical competence records)			✓
Were all patient reports satisfactory on day of run? (i.e. there were no patient complaints)			✓
Were the results of rerun (where possible) the same?			✓
Any other actions (please specify)			✓

SUMMARY REPORT

Root-cause analysis

We Calculate our result as per the given Unit for platelets.
and RBCs we put the Wrong Value (typing Error)

Corrective Action proposed

- found the result Units are Not Correct for platelets and we put the Data of the the Unit Correction and it's acceptable for Plateletes
- for the RBCs we Cross Check the Value before Printing the Results.

Corrective Action taken (To be filled within 30 days of receipt of EQAS result)

For the RBCs attaching the Instrument Data which it's acceptable as per MHL Results.
and for platelets we change the Units.

Sample 1 → 202
2 → 37

Evidence that problem is solved after corrective action (To be attached)

Instrument Data is Attached.

Preventive Action (if any) proposed:

/
Conclusion and future plan if no evidence found:
First Value Clarify by technician and He Checked with Manager the repeat Result

Recorded by (Sign / Date)	
Reviewed by Lab/Medical Director (Sign / Date)	Dr Parthasarathi 25/07/22
Reviewed by Head – QA (Sign / Date)	