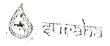
(Department of Pathology)

Root cause analysis of outlier parameter for EQAS performance

Format No: SSL/FM/90

SL No Check Points Observations Name of Parameter (s): Glucose (SDI 3.65) Month: Aproli Unic acid (SDI 4.1) Cycle No / Sample No / Distribution No: April, 2023 2023 Year: CLERICAL ERRORS Dave of testing 17/04/2023 1. Transcription error (may be pre- or post-analytical factors) - MIL -2. Wrong method has been registered for analysis or method - MIL change not updated METHODOLOGICAL PROBLEM 3. Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or results - MIL not within acceptable range. 4. Scheduled instrument maintenance performed - MAappropriately. Incorrect instrument calibration. 5. - NA-Standards or reagents improperly reconstituted and stored. 6. or inadvertently used beyond expiration date -NA-7. Instrument probes misaligned. -MIL-Problem with instrument data processing functions. The 8. laboratory may need to contact the manufacturer to evaluate \ - MII such problems. Problem in manufacture of reagents / standards, or with 9. instrument settings specified by manufacturer - MIL-10. Carry-over from previous specimen. -NIL-Amomatic pipettor not calibrated to acceptable precision and 11. accuracy. - NA-Imprecision from result being close to detection limit of 12. method. - MIL-QC material not run within expiration date, or improperly 13. - MIL-QC material not run at relevant analyte concentration 14. -N11 -15. Result not within reportable range (linearity) for instrument / reagent system. - NIL-



Root cause analysis of outlier parameter for EOAS performance

Check Points	Format No: SSL/
L	Observations
	- NIL-
Incorrect incubation times.	- MIL-
CAL PROBLEM	
EQA material improperly reconstituted.	-NIL-
Testing delayed after reconstitution of EQA material (with problem from evaporation or deterioration).	-NIL-
Sample not placed in proper order on instrument.	-1111-
Result released despite unacceptable QC data.	on the testing delte 1410/1103 the Control valu (NIV cose, Unic acid got out
QC data within acceptable limits but showed trend suggestive of problem with the assay.	- NIL-
QC range is too wide, the probability increases that a result will fall within the acceptable QC range yet exceed acceptable limits for EQA.	- NIL-
incorrect temperature or with incorrect undert.	-111-
Calculation error or result reported using too few significant digits.	- MIL-
Secondary specimen tubes incorrectly labeled.	- NIL-
EM WITH PROFICIENCY TESTING MATERIALS	
PT sample with appropriate matrix to that as prescribed by the equipment manufacturer for testing of samples.	- MIL- - MIL-
Non-homogenous test material	- MIL-
	-MIL-
M WITH EVALUATION OF RESULTS BY THE PT PROVIDER	
Peer group not appropriate.	- NA -
Inappropriate target value	- NA - - NA -
	EQA material improperly reconstituted. Testing delayed after reconstitution of EQA material (with problem from evaporation or deterioration). Sample not placed in proper order on instrument. Result released despite unacceptable QC data. QC data within acceptable limits but showed trend suggestive of problem with the assay. Inappropriate quality control limits / rules. If the acceptable QC range is too wide, the probability increases that a result will fall within the acceptable QC range yet exceed acceptable limits for EQA. Manual pipetting / diluting performed inaccurately, at an incorrect temperature or with incorrect diluent. Calculation error or result reported using too few significant digits. Secondary specimen tubes incorrectly labeled. EM WITH PROFICIENCY TESTING MATERIALS PT sample with appropriate matrix to that as prescribed by the equipment manufacturer for testing of samples.

(Department of Patho

Root cause analysis of outlier parameter for EQAS performance SL No Check Points Format No. SSL/FM 90 Observations

32 Incorrect data entry by PT provides

- NA -

(Department of Pathology)

Root cause analysis of outlier parameter for EQAS performance Format No: SSL/FM/90

Observations **Check Points**

CONCLUSION:

SL No

No major cause of error was detected. The ermon may be brandom. The parameters shall be send for ILC to NABL accredited lab and Both parameters shall be shouldy monitor in the next eggs cycle,

Root Cause Analysis done by: Sanwah' Sengupta

Remarks: Parameters monitored in next eque

Reviewed By: Sanwah Sengupta



(Department of Pathology) EQAS Corrective Action Details

Format No: SSL/FM/91

					Format No: SS	L/FM/91
Sl. No	EQAS Agency	Sample Testing Date	Cycle No/ Sample No	Parameter Outlier	Remarks & Corrective Action Taken	Reviewed By
1	CMC Vellove	17/04/2023	Aproi1, 2023	GIUCOSE	TLC has been done, Alter Commediae action 2-score found 0.70 and the Paramaction 2-score will be monitored in next cycle.	Sanwah' Sengupta
2.	cmc	17/04/2023	April, 2023	Unic Acid	ILC has been bone, After connective action 2-scope found 0.70 and the action 2-scope will be monitored in the parameter will be next cycle.	Sanwahi Sengupta
3.	CMC	17/04/2023	April, 2023	Uhrea (warning)	RCA done and It has been observed as Random emon Parame should be monitored next cycle	Soowah' Sengupta
4.	cmc	17/04/2023	April, 2023	T. Bilibubin	RCH done and it has been observed as Random emron. Parameter will be monitored next cycle. Sumple	Soowah' Sengupta
5.	cmc	19/04/2023	April, 2023	T. Protein (warning)	RCA done and it has been observed as Random Emmon. Rumumeters will be monitored next (ycle, Sample has been belown	Sanwah' Sengupt
G.	CMC Vellone	12/04/2023	April, 2023	Thirdly echil	RCA done and it has been absence as Random Emors. Parameter will be monitored mext cycly, samele has been between	Sanwah' Sengupt





PATIENT NAME: CMC EQAS REF. DOCTOR: DR. SURAHA SPECIALITY LABORATORY

CODE/NAME & ADDRESS: C000131225

SRISHTI DIAGNOSTICS

30, RASH BEHARI AVENUE, KOLKATA

KOLKATA 700026 9123818736 ACCESSION NO: 0031WE012852

PATIENT ID : CMCU865965370

CLIENT PATIENT ID: ABHA NO : AGE/SEX : 1 Days M

DRAWN : 16/05/2023 16:40:07 RECEIVED : 16/05/2023 18:22:32

REPORTED: 17/05/2023 19:09:50

Test Report Status Final Results Biological Reference Interval Units

BIOCHEMISTRY

URIC ACID. SERUM

URIC ACID 5.2 3.5 - 7.2 mg/dL

METHOD: URICASE

GLUCOSE FASTING, FLUORIDE PLASMA

FBS (FASTING BLOOD SUGAR) 142 High 50 - 80 mg/dL

METHOD : ENZYMATIC (HEXOKINASE/G-6-PDH)

Interpretation(s)

URIC ACID, SERUM-Causes of Increased levels:-Dietary(HighProteinIntake,ProlongedFasting,Rapid weight loss),Gout,Lesch nyhan syndrome,Type2 DM,Metabolic syndromeCauses of decreased levels-Low Zinc intake,OCP,MultipleSclerosis GLUCOSE FASTING,FLUORIDE PLASMA-TEST DESCRIPTION

Normally, the glucose concentration in extracellulafluid is closely regulated so that a source of energy is readily available to tissues and so that no glucose is excreted in the

Increased in: Diabetesmellitus, Cushing's syndrome(10 - 15%), chronic pancreabitis (30%). Drugs: corticosteroids, phenytoinestrogen, thiazides.

Decreased in : Pancreaticislet cell disease with increasedinsulin, insulinoma, adrenocortical sufficiency, hypopituitarism, diffuse verdisease, malignancy (adrenocortical, stomach, fibrosarcoma), infanta diabetic mother, enzy medeficiency diseases (e.g. galactosemia), Drugs-insulin, ethanol, propranolol sulfony lureas, to libutamide, and theroral hypoglycemicagents.

NOTE: While random serum glucose levels correlate with home glucose monitoring results (weekly mean capillary glucose values), there is wide fluctuation within individuals. Thus, gly cosylated hemoglobin (HbA1c) evels are favored to monitor gly cemic control.

High fasting glucose level in comparison to post prandialglucose level may be seen due to effect of Oral Hypoglycaemic Insulintreatment, Renal Glyosuria, Glycaemic index & response to food consumed, Alimentary Hypoglycemia, Increase this ulin response & sensitivity etc.

End Of Report

Please visit www.sriworld.com for related Test Information for this accession

Achatteriee

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Dr. Anwesha Chatterjee, MD Pathologist Dr. Chaitali Ray, PHD Chief Biochemist cum MRQA





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SRL Ltd

 $\bar{\rm P}$ S SRIJAN TECH PARK BUILDING, DN-52, UNIT NO. 2, GROUND FLOOR, SECTOR V, SALT LAKE, KOLKATA, 700091

WEST BENGAL, INDIA

Tel: 9111591115, Fax: 30203412 CIN - U74899PB1995PLC045956 Email: customercare.saltlake@srl.in







PATIENT NAME: CMC EQAS REF. DOCTOR: DR. SURAHA SPECIALITY LABORATORY

CODE/NAME & ADDRESS: C000131225

SRISHTI DIAGNOSTICS

30, RASH BEHARI AVENUE, KOLKATA

KOLKATA 700026 9123818736 ACCESSION NO : 0031WE012852

PATIENT ID : CMCU865965370

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Test Report Status <u>Final</u> Results Biological Reference Interval Units

CONDITIONS OF LABORATORY TESTING & REPORTING

- It is presumed that the test sample belongs to the patient named or identified in the test requisition form.
- 2. All tests are performed and reported as per the turnaround time stated in the SRL Directory of Services.
- 3. Result delays could occur due to unforeseen circumstances such as non-availability of kits / equipment breakdown / natural calamities / technical downtime or any other unforeseen event.
- 4. A requested test might not be performed if:
 - I. Specimen received is insufficient or inappropriate
 - ii. Specimen quality is unsatisfactory
 - iii. Incorrect specimen type
 - iv. Discrepancy between identification on specimen container label and test requisition form

- SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.
- Laboratory results should not be interpreted in isolation; it must be correlated with clinical information and be interpreted by registered medical practitioners only to determine final diagnosis.
- Test results may vary based on time of collection, physiological condition of the patient, current medication or nutritional and dietary changes. Please consult your doctor or call us for any clarification.
- 8. Test results cannot be used for Medico legal purposes.
- In case of queries please call customer care (91115 91115) within 48 hours of the report.

SRL Limited

Fortis Hospital, Sector 62, Phase VIII, Mohali 160062

Achattenjae

canitalily.

Dr. Chaitali Ray, PHD

Chief Biochemist cum MRQA

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Dr. Anwesha Chatterjee, MD Pathologist





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P S SRIJAN TECH PARK BUILDING, DN-52, UNIT NO. 2, GROUND FLOOR, SECTOR V, SALT LAKE, KOLKATA, 700091

WEST BENGAL, INDIA Tel: 9111591115, Fax: 30203412

Tel: 9111591115, Fax: 30203412 CIN - U74899PB1995PLC045956 Email: customercare.saltlake@srl.in



Details About RobustAnalysis

Detail About Monthly Summary

16610 Lab No

> April **Detail about SDI**

Year 2023

Constituent

Lab Name

Month

Chemistry II Group

Click on the analyte to view Graphical Data

All Analyser Result

Print

Date of Result Entered: 18/04/2023

Date of Report Published: 06/05/2023

Saswahi Sengupta

SI.No	Analyte	Method / Principle	Analyzer Name	No of	DV	Partic	ipants	Your	SDI	U
31.140	Allalyte	Name	Allalyzer Name	Participants	DV	CV	SD	Value	301	U
1	GLUCOSE II	GOD-POD II	Agape	524	149.18	8.49	12.67	195.4 mg/dL	3.65	1.11
2	UREA II	Urease UV / GLDH II	Agape	479	37.53	11.09	4.16	46.7 mg/dL	2.20	0.38
3	CREATININE II	Jaffes Kinetic- Alkaline Picrate II	Agape	394	2.48	9.40	0.23	2.61 mg/dL	0.56	0.02
4	T.BILIRUBIN II	Diazonium Salt (Colorimetric) / Jendrassik II	Agape	480	3.12	16.43	0.51	4.49 mg/dL	2.68	0.05
5	T-PROTEIN II	Biuret - Colorimetric	Agape	371	5.54	8.14	0.45	6.69 g/dL	2.55	0.05
6	ALBUMIN II	BCG - Colorimetric II	Agape	367	3.38	9.46	0.32	3.15 g/dL	-0.72	0.03
7	URIC ACID II	Enzymatic / Uricase Colorimetric II	Agape	449	5.54	14.33	0.79	8.78 mg/dL	4.1	0.07
8	CHOLESTROLII	CHOD-PAP II	Agape	523	117.23	11.15	13.08	135.2 mg/dL	1.37	1.14
9	TRIGLYCERIDE II	GPO-PAP / Enzymatic Colorimetric / End Point II	Agape	386	103.22	12.42	12.82	131.6 mg/dL	2.21	1.30

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ± 1.01 to ± 2.00	Good.
Within ±2.01 to ±2.99	Accept with caution. Warning Signal.
Beyond ±3.0	Unacceptable performance. Action Signal.

Links

Modify Address	Modify Methods	Submit Lab Results	View Lab Monthly Summary
Yearly Summary	Change Password	Home	Sign-out

SURAHA SPECIALITY LABORATORY (DEPARTMENT OF PATHOLOGY)

Laboratory 1 : SURAHA SPECIALITY LABORATORY

Laboratory 2 : SRL DIAGNOSTICS

Laboratory` 3 :

SI. No	Date of Testing	ID No	Parameter	Lab 1	Lab 2	Lab 3	Mean	SD
1	17-04-2023		uric acid	8.52	5.2		6.86	2.347595
2	17-04-2023		glucose	181.96	142		161.98	28.25599

Z- Score = (Lab 1 - Mean)/SD

Z-Score	Corrective action (≥ 2 Z-score)	Reviewed By
0.707107		Sanwah Sengupta
0.707107		Saowah Sengupta