SURAHA SPECIALITY LABORATORY

(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): Uric Acid (SDI - 10.46)	Month: February
	Cycle No / Sample No/ Distribution No: Feb, 2023	Year: 2023
	CLERICAL ERRORS Date of testing - 16/02/2023	
1.	Transcription error (may be pre- or post-analytical factors)	NIL
2.	Wrong method has been registered for analysis or method change not updated	NIL
	METHODOLOGICAL PROBLEM	
3.	Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or results not within acceptable range.	NIL
4.	Scheduled instrument maintenance not performed appropriately.	NA
5.	Incorrect instrument calibration.	NA
6.	Standards or reagents improperly reconstituted and stored, or inadvertently used beyond expiration date.	NA
7.	Instrument probes misaligned.	NIL
8.	Problem with instrument data processing functions. The laboratory may need to contact the manufacturer to evaluate such problems.	NIL
9.	Problem in manufacture of reagents / standards, or with instrument settings specified by manufacturer	NIL
10.	Carry-over from previous specimen.	NIL
11.	Automatic pipettor not calibrated to acceptable precision and accuracy.	NIL
12.	Imprecision from result being close to detection limit of method.	NIL
13.	QC material not run within expiration date, or improperly stored	NIL
14.	QC material not run at relevant analyte concentration	NIL
15.	Result not within reportable range (linearity) for instrument / reagent system.	NIL

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16.	Obstruction of instrument tubing / orifice by clot or protein.	NIL
17.	Incorrect incubation times.	NIL
TECHNICAL PROBLEM		
18.	EQA material improperly reconstituted.	NIL
19.	Testing delayed after reconstitution of EQA material (with problem from evaporation or deterioration).	NIL
20.	Sample not placed in proper order on instrument.	NIL
21.	Result released despite unacceptable QC data.	On the testing date 16/02/23 the control value for UA got out side range(1-2s)
22.	QC data within acceptable limits but showed trend suggestive of problem with the assay.	It shows trend but sample was tested without taking corrective action.
23.	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.	NIL
24.	Manual pipetting / diluting performed inaccurately, at an incorrect temperature or with incorrect diluent.	NIL
25.	Calculation error or result reported using too few significant digits.	NIL
26.	Secondary specimen tubes incorrectly labeled.	NIL
PROBLEM WITH PROFICIENCY TESTING MATERIALS		
27.	PT sample with appropriate matrix to that as prescribed by the equipment manufacturer for testing of samples.	NIL
28.	Non-homogenous test material	NIL
29.	Haemolysis on an immune-haemtology program samples.	NIL
PROBLEM WITH EVALUATION OF RESULTS BY THE PT PROVIDER		
30.	Peer group not appropriate.	NA
31.	Inappropriate target value	NA

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32.	Incorrect data entry by PT provider	NA

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SL No	Check Points	Observations

CONCLUSION:

RCA done after checking all points and it has been observed but the outlier of uric acid it was due to the result released despite unacceptable QC data (Trend) suggested. The parameter shall be send for ILC to NABL accredited lab. and parameter shall be strictly monitor in the next eqas cycle.

Root Cause Analysis done by: Saswati Sengupta

Remarks: UA will be monitor in next cycle. Ite h

Reviewed By: Saswati Sengupta

SURAHA SPECIALITY LABORATORY
(Department of Pathology)
EQAS Corrective Action Details

Format No: SSL/FM/91

Sl. No	EQAS Agency	Sample Testing Date	Cycle No/ Sample No	Parameter Outlier	Remarks & Corrective Action Taken	Reviewed By
1.	CMC Vellore	16/02/2023	Feb, 2023	Uric Acid	ILC has been done, After Corrective action Z score found 0.70 and the parameter will be monitored in next cycle.	Saraswati Sengupta
						Saraswati Sengupta

DIAGNOSTIC REPORT

MC-2396

SRL Diagnostics

PATIENT NAME : EQAS-II

REF. DOCTOR : DR. SURAHA SPECIALITY LABORATORY

CODE/NAME & ADDRESS : C000131225 SRISHTI DIAGNOSTICS 30, RASH BEHARI AVENUE, KOLKATA 700026 9123818736	ACCESSION NO : **0031WC012022** PATIENT ID : EQASU630609200 CLIENT PATIENT ID: ABHA NO :	AGE/SEX : 1 Days Male DRAWN : 15/03/2023 19:11:05 RECEIVED : 16/03/2023 14:13:25 REPORTED : 16/03/2023 16:39:04

Test Report Status **Final**	Results	Biological Reference Interval	Units

BIOCHEMISTRY

URIC ACID, SERUM

URIC ACID	6.5	3.5 - 7.2	mg/dL

METHOD : URICASE

Interpretation(s)

URIC ACID, SERUM-**Causes of Increased levels:**-Dietary(HighProteinIntake,ProlongedFasting,Rapid weightloss),Gout,Lesch nyhansyndrome,Type2 DM,Metabolic syndrome

Causes of decreased levels-Low Zinc intake,OCP,MultipleSclerosis

****End Of Report****

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

CONDITIONS OF LABORATORY TESTING & REPORTING

1. 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 (DOS).
3. SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.
4. A requested test might not be performed if:
   a. Specimen received is insufficient or inappropriate specimen quality is unsatisfactory
   b. Incorrect specimen type
   c. Request for testing is withdrawn by the ordering doctor or patient
   d. There is a discrepancy between the label on the specimen container and the name on the test requisition form
5. SRL confirms that all tests have been performed or assayed with highest quality standards, clinical safety & technical integrity.
6. 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.
7. 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.
9. In case of queries please call customer care (91115 91115) within 48 hours of the report.

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SRL Limited
Fortis Hospital, Sector 62, Phase VIII,
Mohali 160062

Dr. Chaitali Ray, PHD
Senior Biochemist cum
Management Representative

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CIN - U74899PB1995PLC045956
Email : customercare.saltlake@srl.in

Patient Ref. No. 31000004648945

Lab Name	SURAHA SPECIALITY LABORATORY
Lab No	16610
Month	February
Year	2023
Constituent Group	Chemistry II

Details About RobustAnalysis

Detail About Monthly Summary

Detail about SDI

Click on the analyte to view Graphical Data

All Analyser Result | Print

Date of Result Entered : 18/02/2023

Date of Report Published : 08/03/2023

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants CV	Participants SD	Your Value	SDI	U
1	GLUCOSE II	GOD-POD II	Agape	494	119.76	7.78	9.32	126.5 mg/dL	0.72	0.84
2	UREA II	Urease UV / GLDH II	Agape	413	125.79	9.60	12.08	149.2 mg/dL	1.94	1.19
3	CREATININE II	Jaffes Kinetic-Alkaline Picrate II	Agape	358	4.19	9.72	0.41	4.64 mg/dL	1.11	0.04
4	T.BILIRUBIN II	Diazonium Salt (Colorimetric) / Jendrassik II	Agape	446	1.58	21.85	0.34	1.87 mg/dL	0.84	0.03
5	T-PROTEIN II	Biuret - Colorimetric II	Agape	314	4.68	8.32	0.39	4.73 g/dL	0.13	0.04
6	ALBUMIN II	BCG - Colorimetric II	Agape	335	2.99	10.41	0.31	3.49 g/dL	1.61	0.03
7	URIC ACID II	Enzymatic / Uricase Colorimetric II	Agape	384	7.16	10.39	0.74	14.9 mg/dL	10.46	0.08
8	CHOLESTROL II	CHOD-PAP II	Agape	488	96.79	12.52	12.11	104.8 mg/dL	0.66	1.10
9	TRIGLYCERIDE II	GPO-PAP / Enzymatic Colorimetric / End Point II	Agape	328	84.47	11.21	9.47	86.1 mg/dL	0.17	1.05

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.

Saswati Sengupta

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 :

Sl. No	Date of Testing	ID No	Parameter	Lab 1	Lab 2	Lab 3	Mean	SD	Z-Score	Corrective action (≥ 2 Z-score)	Reviewed By
1	16-02-2023		u.acid	14.9	6.5		10.7	5.939697	0.707107		Sanjib Sengupta

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