| | :fa\1/a |
|-----|----------|
| 200 | LifeWell |
| 600 | |

PT EQAS RESULT REVIEW FORM

| Issued by QA: | 7.5557 |
|---|--|
| Department: Immuno assay, Ejochanikty, Ikmahlg PT Provider: | Month / Year: Mry - 2023 |
| PT Provider: MHL Equit | Distribution / Lot No: |
| MHL Equis Analyte(Test): HIV, HCV, HES AG, CFT, KFT, Lipid Pre | ofile voice Routine, vope, enc |
| Machine used: Mispa CXL pro Plus, Aspen AD3200, Manual | Kit used: Viola |
| Test done by: Any Komar, Puncet | Done on: |
| Report uploaded by: Abhickel | Report uploaded on: |
| Software used: | |
| EQAS Report received on 22 - 05 - 2023 | |
| Reviewed by: Approved by: | Dr. Parkhedi |
| Observations: | |
| *If results are ungraded, please attach self-assessme preventive action required. But if unsatisfactory, corrective optimum evidence. | ent.If satisfactory no corrective and and preventive action is required with |
| Self-Assessment Result: Satisfactory 5 Unsati | sfactory |
| Attachment: Yes No | |
| Please investigate failure for unsatisfactory performance ar Director in3 Days. | nd submit a report to QA and Medical |
| Approved by | |
| Signature (Lab Director/Pesignee) | |



INVESTIGATION FORM FOR UNACCEPTABLE PT/EQAS RESULTS

Issued by QUA:

| Department Department | |
|---------------------------------------|-------------------------------------|
| PT provider Sinchamic | |
| Survey Name: | Tru |
| Date Survey received | |
| Date Survey Popular State Amount 1000 | Date Apply: |
| 17 2023 | Date Analysis Performed: 12 or 1023 |
| Investigation porfers | results received: 23 5 723 |

| Investigation performed by | 27 5 723 |
|----------------------------|--|
| Lab director And | 11 |
| 7 0 | appen 1 Threet Gupki |
| | Date 24 Fly |
| Unacceptable Result 4 | • |

| Unacceptable Result 1 | | | |
|-----------------------|--|---|------------------------|
| Specimen No | The state of the s | | |
| Reported result | Sample No. 1 | Analyte | · · 下下 5 保持55年10 10 20 |
| Acceptable Lower | 0-00 | Intended records | Bilinch in Direct. |
| Limit | 0.04 | Intended result/range Acceptable Higher | 0.10 Direct. |
| SD | 0.0 | Limit Higher | |
| | 0.03 | CV% | 0-16 |
| Unaccentable D | | | 27.35 |

| Unacceptable Result 2 Specimen No. | Note that the second second | | 37-35 |
|--|-----------------------------|-------------------|-------------|
| Reported result Acceptable Lower Limit | Sample No-2 0.039 | Acceptable Higher | Bilirchin D |
| Unacceptable Populs | 0.03 | Limit CV% | 34.25 |

| Unacceptable Result 3 | | 34.25 |
|------------------------------|-------------------------------|-------|
| Specimen No. Reported result | Analys | |
| Acceptable Lower Limit | Analyte Intended result/range | |
| SD | Acceptable Higher Limit | |
| | CV% | |
| The second second | | |

EVALUATION OF POSSIBLE SOURCES OF ERROR

| 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' | N/A |
|--|-----|
| Incorrect decimal placement Errors in calculations. Mis-match between result reported on the troout formula to the proficiency testing. | ~ |
| From the description of the desc | ~ |
| proficiency toction | V |
| Mis-match between result reported on the troouts form and on the | V |
| proficiency testing evel reported on the 'requit of | V |
| y seeming evaluation report' result form' and on the | ~ |
| y soung evaluation report' and on the | |

LW/DIA/LAB/GEN/SOP-010/FOM-

Effective Date: 01-03-2022

Page 1 of 5



Any other clerical problem?

INVESTIGATION FORM FOR UNACCEPTABLE PT/EQAS RESULTS

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|---------------------|----------------------|-------------|
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| | erro | error. The |

| nost recent campration upage | | | |
|--|-----|----|-----|
| Analytical Most recent calibration unacceptable or not within established stability mits at the time of PT | Yes | No | N/A |
| nstrument renaired or replaced | | | ~ |
| Review of past PT results indicate unevenly distributed data or a bias | | | / |
| ntended result not within the measuring range for the instrument Vas instrument maintenance performed | - | | / |
| Vas instrument maintenance performed on schedule? | | - | / |
| Review of records indicate there was related instrument/test problems | | - | - |
| 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.



INVESTIGATION FO

| | Survey specimens not reconstituted as indicated in the Kit Instructions Survey specimen provided in the Kit Instructions Survey specimen not stored as indicated in the Kit Instructions Survey specimen mix-up. | FOR UNACCEPTABLE PT/EQAS RESULTS |
|-----|---|----------------------------------|
| | Survey specimens not reconstituted as indicated Special instructions provided in the Kit Instructions Survey specimen mix-up Survey specimen not reconstituted as indicated in the Kit Instructions material Any other problem | |
| 7 | Survey specimens not reconstituted as indicated Special instructions provided in the Kit Instructions material Survey specimens not stored as indicated in the Kit Instructions material Any other problem related to speci- | . |
| | Specific not reperiment | ror un. |
| | indicial incidens not reconstituen by | SIVACCED |
| - 1 | "idicated struction of storestituted landling | ARIL |
| - 1 | Corrections provided as indiana | TE PT/EC. |
| I | materi tests | TOUAS REC. |
| ı | Strengt are not become and the kind in the | The Kith |
| t | Indicated Instructions provided as indicated as indicated in the Kit Instructions Survey Specimen mix-up Any other problem related to specimen handling? | (it Instruction V |
| -1 | Any other problem related to specimen handling? A response of "V | ons not No |
| -1 | other problem Mix-lin | not perform |
| - 1 | roblem religion silect vial | Pellolmed |
| ۲ | related to | of profit |
| L | "O Specime" | - Gliclency to |
| 1 | A real handing | resting |
| 1 | turesponse. | |
| _ | Types of "Yes" | |
| | or errors court to any | |
| | could indicat of these | |
| 1 | dicate a fail. question | |
| - | idilure to read m | av is is |
| L | Late chi | "y indicate |
| П | A response of "Yes" to any of these questions m Late shipment PT Material | ridierial productions |
| | Dinolysed and Pr Mator | Flovided With pandlin |

| | Late at the residual to read the read the read the residual to read the residual to read the | | / |
|-----|--|---------------|-------|
| | Late shipment Hemolysed sample Bacterial contamination Poor great to read the material provided with the Surve | | |
| | Hemolysed sample Perceived survey by the su | error. T | hes |
| | Perceived survey bias Unstantial Contamination Poor growth in cutton | ys mater | ials. |
| | Upot growth in cut | _ | |
| | | N/A | |
| | | | |
| | No comparable peer group Inappropriate peer group based on method reported on result form Any other problem? | \sim | _ |
| | Approximate peer group based or | <u> </u> | _ |
| | other problem? | | _ |
| | and on result form | \sim | _ |
| | | \rightarrow | _ |
| | A response of "Voc" | | _ |
| | A response of "Yes" to any of these questions may indicate a group after arrival in the institution. | 7 | _ |
| - 1 | group arrival in the institute in the laterial | | |

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 Sur A response of res 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 an indicate a problem with the PT material. after arrival in the institution. If you believe your result was compared to an inappropriate peer varify the method reported on the result form. Contact PT provider for additional group, verify the method reported on the result form. Contact PT provider for additional

| Was analysis Miscollar | provider for additional |
|--|--|
| Was analysis performed by technically compete (Check technical competence records) Were all patient reports satisfactors | nt person Yes No Live |
| Were all patient reports satisfactory on day of rur Were the results of rerun (where possible to the companion of the compani | ? (i.e. the second of the seco |
| Were the results of rerun (where possible) the sar Any other actions (please specify) | ne? |
| - specify) | |
| | |

Effective Date: 01-03-2022

SUMMARY REPORT

Root-cause analysis

After Cleek Maihirance Ige and calibration, there are found suspected to be Rondom enter.

Corrective Action proposed

Equi Retained sample remen result come. Bilindson D-Stroot. Which is acceptable. S22+ 0.07

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

We will guide to our staff to proper maintirere of instrument and after maintirere and are reports release.

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

Revun dala attached.

INVESTIGATION FORM FOR UNACCEPTABLE PT/EQAS RESULTS

| Preventive Action (if any) proposed: | | | |
|--|-------------|------------|-------|
| | | | 2,800 |
| MU | | | |
| | | | |
| Conclusion and future plan if no evide | ence found: | | |
| Firstly Nanification Meand verification | by one | techinican | and |
| Neonel Verification | by Lab | Moveyer. | |

| Recorded by (Sign / Date) | A:1- 21192 |
|--|-----------------|
| Reviewed by Lab/Medical Director (Sign / Date) | Dr. Parland 123 |
| Reviewed by Head – QA (Sign / Date) | Maint 24 1123 |

非正式报告单

* * * Hospital * * CheckerSample Report

Name:

Sex:

Age:

Spl No.:

2

Case No.:

Dept.:

Bed No.:

Dr

submission:

Spl Type:

Clinical Diagnosis:

Serum

Patient Type:

Barcode:

EQAS BC 2

Note:

| Item Abb. | Test Result | Prompt Unit | Reference | |
|-----------|-------------|-------------|-----------|--|
| 1 DBIL | 0.07 | mg/dL | 0-0.4 | |

* * * Hospital * * CheckerSample Report

非正式报告单

Name:

Sex:

Age:

Spl No.:

1

Case No.:

Clinical

Diagnosis:

Dept.:

Bed No.:

Dr submission:

Spl Type:

Serum

Patient Type:

Barcode:

EQAS BC 1

Note:

| Item Abb. Test Resu | ilt Prompt | Unit R | eference | |
|---------------------|------------|-----------|----------|--|
| 1 DBIL 0.07 | | mg/dL / 0 | -0.4 | |

37



Reviewed by:

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

Analyte Result Value Standard Instrument **Z-Score** Unit 0.00 mg/dl * Bilirubin Direct Mispa CXL Pro Plus Urea Mispa CXL Pro Plus 29.36 mg/dl 2.79 ! Creatinine Mispa CXL Pro Plus 1.24 mg/dl 2.12 Legend @: z score ≤ 2.0 - Acceptable : 2.0 < z score < 3.0 - Warning X : z score ≥3 - Unacceptable # : Not Evaluated (9): Delayed Result Entry * : Not considered for evaluation. **Problem Classification:** Corrective Action:

Report Date: 19/05/2023

Dated:



LIFEWELL DIAGNOSTICS PVT LTD (LAJPAT NAGAR) (875)

Outlier And Analyte Summary Report
Result Details For Cycle No 230104 and Sample No 01

Instrument: Mispa CXL Pro Plus

| Analyte | Standard Unit | Result Value | Mean | Z-Score | RMZ |
|-------------------------|---------------|--------------|--------|---------|-------|
| * Bilirubin Direct | mg/dl | 0.00 | 0.08 | -3.37 * | 0.00 |
| @ Glucose | mg/dl | 72.85 | 71.76 | 0.32 | 1.31 |
| ! Urea | mg/dl | 29.36 | 24.19 | 2.79 | 2.23 |
| ! Creatinine | mg/dl | 1.24 | 0.86 | 2.12 | 1.60 |
| @ Bilirubin Total | mg/dl | 0.15 | 0.18 | -0.60 | -0.63 |
| @ Total Protein | g/dL | 7.18 | 6.89 | 0.39 | 0.32 |
| @ Albumin | g/dL | 4.22 | 4.02 | 0.97 | 0.85 |
| @ Uric Acid | mg/dl | 5.61 | 5.51 | 0.62 | 0.64 |
| @ Calcium | mg/dl | 9.85 | 9.98 | 1.45 | 1.58 |
| @ Phosphorous Inorganic | mg/dl | 5.19 | 4.87 | 1.89 | 1.80 |
| @ Cholesterol | mg/dl | 165.09 | 155.07 | 0.40 | 0.41 |
| @ Triglycerides | mg/dl | 145.01 | 126.02 | 1.02 | 1.08 |
| @ HDL | mg/dl | 35.84 | 34.49 | 0.04 | -0.11 |
| @ LDL | mg/dl | 100.24 | 94.20 | 0.66 | 0.64 |
| @ ALT | U/L | 7.74 | 7.58 | 0.14 | 1.42 |
| @ AST | U/L | 16.99 | 16.26 | -0.90 | -0.78 |
| @ ALP | U/L | 60.17 | 56.37 | 0.43 | 0.40 |
| @ GGT | U/L | 29.36 | 26.10 | 0.81 | 1.16 |

Instrument: Sensa Core ST200 Aqua

| Analyte | Standard Unit | Result Value | Mean | Z-Score | RMZ |
|-------------|---------------|--------------|--------|---------|-------|
| @ Chloride | mmol/L | 100.80 | 103.20 | 0.11 | -0.09 |
| @ Sodium | mmol/L | 137.60 | 135.43 | 0.48 | 0.48 |
| @ Potassium | mmol/L | 4.65 | 4.34 | 0.41 | 0.33 |

Report Date: 19/05/2023



LIFEWELL DIAGNOSTICS PVT LTD (LAJPAT NAGAR) (875)

Outlier And Analyte Summary Report
Result Details For Cycle No 230104 and Sample No 01

Legend @: Acceptable

: 2.0 < z score < 3.0 - Warning

X : z score ≥3 - Unacceptable

: Not Evaluated

③ : Delayed Result Entry

* : Not considered for evaluation.

| Total Parameters | 21 |
|--------------------------|---------|
| Not Evaluated Parameters | 0 |
| Evaluated Parameters | 21 |
| Outlier Parameters (X) | 1 |
| EQAS Score Biochemistry | 95.24 % |

Report Date: 19/05/2023

Aknogam

Dr Puneet Kumar Nigam PT coordinator & Technical Manager, MHL EQAS Unit No. 409-416.

Commercial Building - 1A Kohinoor Mall, Kirol Road, Kurla (W),

Mumbai - 400070



Reviewed by:

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 02

| Analyte | Instrument | Result Value | Standard Unit | Z-Score |
|-------------------------|---------------------|--------------|------------------|---------|
| * Bilirubin Direct | Mispa CXL Pro Plus | 0.00 | mg/dl | * |
| ! Glucose | Mispa CXL Pro Plus | 86.69 | mg/dl | 2.3 |
| ! ALT | Mispa CXL Pro Plus | 12.72 | U/L | 2.7 |
| Legend @: z score ≤ 2.0 | - Acceptable | | | |
| ! : 2.0 < z score | e < 3.0 - Warning | | | |
| X : z score ≥3 - | Unacceptable | | | |
| # : Not Evaluate | ed | | | |
| ③ : Delayed Res | ult Entry | | | |
| * : Not consider | red for evaluation. | | | |
| Problem Classification: | | | | |
| Corrective Action: | | | | |
| | | | | |

Report Date: 19/05/2023

Dated:



LIFEWELL DIAGNOSTICS PVT LTD (LAJPAT NAGAR) (875)

Outlier And Analyte Summary Report
Result Details For Cycle No 230104 and Sample No 02

Instrument: Mispa CXL Pro Plus

| Analyte | Standard Unit | Result Value | Mean | Z-Score | RMZ |
|-------------------------|---------------|--------------|--------|---------|-------|
| * Bilirubin Direct | mg/dl | 0.00 | 0.07 | -3.03 * | 0.00 |
| ! Glucose | mg/dl | 86.69 | 80.48 | 2.30 | 1.31 |
| @ Urea | mg/dl | 30.48 | 27.03 | 1.66 | 2.23 |
| @ Creatinine | mg/dl | 1.09 | 0.90 | 1.07 | 1.60 |
| @ Bilirubin Total | mg/dl | 0.15 | 0.17 | -0.65 | -0.63 |
| @ Total Protein | g/dL | 7.08 | 6.98 | 0.24 | 0.32 |
| @ Albumin | g/dL | 4.20 | 4.03 | 0.72 | 0.85 |
| @ Uric Acid | mg/dl | 5.90 | 6.05 | 0.66 | 0.64 |
| @ Calcium | mg/dl | 9.98 | 9.94 | 1.70 | 1.58 |
| @ Phosphorous Inorganic | mg/dl | 5.27 | 5.12 | 1.71 | 1.80 |
| @ Cholesterol | mg/dl | 164.35 | 156.69 | 0.42 | 0.41 |
| @ Triglycerides | mg/dl | 153.34 | 140.42 | 1.14 | 1.08 |
| @ HDL | mg/dl | 33.48 | 32.55 | -0.26 | -0.11 |
| @ LDL | mg/dl | 100.20 | 95.72 | 0.62 | 0.64 |
| ! ALT | U/L | 12.72 | 8.99 | 2.70 | 1.42 |
| @ AST | U/L | 20.59 | 19.08 | -0.65 | -0.78 |
| @ ALP | U/L | 62.14 | 60.61 | 0.37 | 0.40 |
| @ GGT | U/L | 42.88 | 41.52 | 1.51 | 1.16 |

Instrument: Sensa Core ST200 Aqua

| Analyte | Standard Unit | Result Value | Mean | Z-Score | RMZ |
|-------------|---------------|--------------|--------|---------|-------|
| @ Chloride | mmol/L | 98.50 | 103.08 | -0.28 | -0.09 |
| @ Sodium | mmol/L | 137.90 | 136.63 | 0.48 | 0.48 |
| @ Potassium | mmol/L | 4.65 | 4.41 | 0.24 | 0.33 |

Report Date: 19/05/2023



LIFEWELL DIAGNOSTICS PVT LTD (LAJPAT NAGAR) (875)

Outlier And Analyte Summary Report
Result Details For Cycle No 230104 and Sample No 02

Legend @: Acceptable

: 2.0 < z score < 3.0 - Warning

X : z score ≥3 - Unacceptable

: Not Evaluated

③ : Delayed Result Entry

* : Not considered for evaluation.

| Total Parameters | 21 |
|--------------------------|---------|
| Not Evaluated Parameters | 0 |
| Evaluated Parameters | 21 |
| Outlier Parameters (X) | 1 |
| EQAS Score Biochemistry | 95.24 % |

Report Date: 19/05/2023

Aknogam

Dr Puneet Kumar Nigam PT coordinator & Technical Manager, MHL EQAS Unit No. 409-416.

Commercial Building - 1A Kohinoor Mall, Kirol Road, Kurla (W),

Mumbai - 400070