Key Trainer Handbook

Abbott i-STAT Alinity Analyser

Contents

Phone: 22338 (LGI) or 64791 (SJUH)

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Introduction to Point of Care

This handbook has been compiled by the Point of Care Testing Department (PoCT) for LTHT to help you, the healthcare professional, achieve consistently reliable and accurate results. It also hopes to explain the importance of good practice when producing laboratory results outside of the Pathology environment.

The different sections of the booklet cover aspects of working with the Abbott i-STAT Alinity Analyser including routine use and quality control.

On completing this training all users should be able to analyse samples obtaining an accurate result whilst minimising risk to themselves and patients.

Ensuring Quality

Leeds Teaching Hospitals Trust Pathology service is required to meet the nationally agreed standards set by UKAS, the national accreditation body recognised by the UK Government. A standard is a document that provides requirements, specifications, guidelines or characteristics that can be used consistently to ensure that materials, products, processes and services are fit for their purpose. Pathology is currently using ISO standards to assess their performance. Following the Clinical Area Standard Operating Procedure (SOP) and using the training material provided is essential to us meeting these standards.

The use of analysers by untrained staff, without adequate management supervision of the equipment and without the use of quality control procedures, can lead to misleading results and adversely affecting the treatment of patients.

Definitions

Calibration - A set of known standards are run at different concentrations and used to assess and adjust the accuracy of the analyser.

Internal Quality Control (IQC) - The role of IQC is to monitor the day-to-day precision and accuracy of a given assay by comparing it to known values. Best practice dictates both a high and low are run, ensuring accuracy at both ends of the result range.

External Quality Assurance (EQA) - The role of EQA is to provide a broader comparison. Enrolling in an EQA scheme allows one analyser's results to be compared to many others, both of similar and different methods. It is also performed by a member of staff and so can be used to monitor user proficiency.

Key Trainer Role

The key trainer's role is to cascade training from the POCT department to all members of ward staff who are required to use the Abbott i-STAT Alinity Analyser. They must ensure all necessary training steps are completed before informing POCT of completed training.

Key Trainers will be expected to attend training session updates and relay any changes in practice.

Training for the Abbott i-STAT Alinity Analyser

Objective

This competency covers the analysis of arterial and venous samples using the Abbott i-STAT Alinity Analyser in a Point of Care (PoCT) setting.

Assessment

This assessment is relevant to anyone required to carry out the analysis of arterial and venous samples using the Abbott i-STAT Alinity Analyser. This includes having an understanding of how to collect an appropriate sample, how to use the analyser to perform a patient test, all relevant health and safety issues, who to contact for machine failure and the importance of password protection.

Other Helpful Documents

- Abbott i-STAT Alinity Analyser User Guide
- Abbott i-STAT Alinity Analyser Operator Manual
- Abbott i-STAT Alinity Analyser SOP
- Abbott i-STAT Alinity Ward Handbook

This document is for use within the Leeds Teaching Hospitals NHS Trust ONLY. It should not be printed, but accessed electronically so that only the most up to date instructions are available.

PLEASE NOTE: The sharing of passwords is against Trust policy, both the Data protection policy and the use of computers policy. Every member of staff is required to undertake mandatory Information Governance (IG) training and should be aware of this. Sharing passwords breaks principle 7 of the Data Protection Act (1998), which could be interpreted as unauthorised processing. This is unlawful under section 55 of the Act. It is also an offence under the Computer Misuse Act (1990).

Training Steps

The below steps are required for a staff member to be trained and gain access to the equipment. All documents that require completion during training can be found in the pages below.

Observational Assessment: Performing a patient test on the Abbott i-STAT Alinity Analyser

The following assessment must be completed by the trainee and observed by the key trainer to certify them as competent before the training register is submitted to Point of Care.

Knowledge
Has the member of staff read the i-STAT Alinity Analyser User Guide [BSF2POC149]?
Has the member of staff completed the questions (optional)?
Competency **Sampling can be done with either patient or QC sample**
Did the member of staff correctly use the relevant ID Operator ID? QC or Patient's ID?
Sample Analysis using QC or patient sample Was the user able to analyse a QC or patient sample correctly?
Did the member of staff demonstrate effective health and safety measures? Were gloves worn? Were the used syringe and cartridge disposed of correctly in a sharps bin or clinical waste bin?
Skills
Maintenance Does the member of staff know how to perform the electronic simulator test? Does the member of staff know how to clean the analyser? Does the member of staff know what to do in the event that a QC test fails? Does the member of staff know how to contact Point of Care in the event of machine breakdown?
Result Reporting Were the results reported according to ward/departmental procedures ensuring the correct patient ID?

Once all competencies have been completed and observed, please complete the training register and email to Point of Care Testing at leedsth-tr.pointofcare@nhs.net

This is to certify that

_____

has attended the

Abbott i-STAT Alinity Analyser Training

Please tick to indicate which analyser training has been completed below			
User Training	☐	Key Trainer Training	☐

This staff member is certified as competent and will have access to the analyser for 2 years from the date of training

Trainer Name _____

Training Date _____

For more details on performing tests on the Abbott i-STAT Alinity Analyser please access the User Guide [BSF2POC149] via the Pathology Intranet
Or type:
http://leedspath.myeqms.com/Administrator/LoadDocADM.asp?ID=92189&Ext=True&CCID=1

Leeds Pathology

Point of Care Contact details

LGI: 22338

SJUH: 64791

Mobile: 07775996028

Email: leedsth-tr.pointofcare@nhs.net

Multiple Choice Questions

Circle correct answers

1. **Why is it essential to analyse QC (quality control)? Select two answers.**

    a) To check user technique

    b) To clean the meter

    c) To ensure the meter is working correctly

2. **How long are the consumables stable for at room temperature?**

Creatinine cartridges:	5 days	7 days	14 days
QC ampules:	5 days	7 days	14 days

3. **How often should a QC test be run?**

    a) Weekly

    b) Weekly and for every new lot/delivery of cartridges

    c) Monthly

4. **How often should the electronic simulator test be run?**

    a) Every 24 hours

    b) Every 48 hours

    c) Weekly

5. **Who is allowed to use your barcode?**
    a) Any trained staff members in the department
    b) Anyone
    c) Only me
    d) Senior staff members

6. **What is the correct way to hold the cartridge?**
    a) At the sides
    b) In the middle
    c) Anywhere

7. **A continuous stream of blood is required in the cartridge to cover all sensors and allow an electrical current to be formed.**
    a) True
    b) False

8. **What forms of patient ID are acceptable?**
    a) PAS number, NHS number or A&E number
    b) Case note number or bed number
    c) 0 for unknown patient
    d) All of the above

Answers

1. **Why is it essential to analyse QC (quality control)? Select two answers.**

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Abbott i-STAT Alinity Analyser Training Register

The Leeds Teaching Hospitals NHS Trust

Hospital and Ward: | **Date of Training:**

Name of Trainer:

Forename	Surname	Ward/ Department	Site(s) access required for	Operator ID (7/8 DIGIT NO.)	E-mail address	Observational Assessment Complete
e.g. JOE	*BLOGGS*	*LGI Radiology*	*LGI/SJUH/ Cross site*	*Barcode from ID Badge* ***MUST be provided***	*Joe.bloggs1234@nhs.net*	✓