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Clinical chemistry analyzers/biochemistry analyzers are laboratory instruments that use measurement technologies including photometric and colorimetric testing, ion-selective potentiometry, and latex agglutination to analyze samples such as blood serum, plasma to test for analytes such as proteins, enzymes, and electrolytes.

**CARE FOR CHEMICAL ANALYZERS**

Automatic analyzers in the multi system hospital can be cared for by :

- cleaning

- Calibration

- Repairing

- Refurbishing

1 **-CLEANING**

 Lab cleanliness is one of the easiest, most affordable and most obvious ways to keep your lab in great shape.

 Cleaning your equipment thoroughly, at

regular intervals, is among the best ways of keeping it in good working order and elongating

its functional life.

On a daily basis, wipe clean exposed surfaces, and schedule a deep clean once each week.

2- **CALIBRATION**

Failure to regularly calibrate equipment can lead to a lack of accuracy with your data.

- Carry out an inventory of your equipment and decide which is most suitable for each item

- Regularly calibrate equipment for ongoing preventative maintenance that will prevent data corruption .

3- **REPAIRS**

lab items will eventually wear out and stop working. But, rather than immediately disposing of faulty equipment, we can take the time to see if parts could be replaced or items can be repaired instead.

It’s likely that equipment can be updated and maintained rather than simply disposed of.

Repairing and replacing parts can be an effective way to increase lifespan and keep down costs.Centrifuges,filtration systems and microscope lenses can be simply replaced without the need to dispose of the entire machine.

4- **REFURBISHING**

This refers to the taking the entire piece of equipment apart

Fully cleaning each component and polishing components that are necessary.

Re-lubricate any moving parts and If parts are showing signs of wear and tear, consider replacing them at this preventative stage then

Put the equipment back together

5- **TURNING OFF AFTER USE**

 After being used for the chemical anAlysis,the machine should be shut down correctly.

6- **TRAINING OF OTHER LABORATORY STAFF**

 All other personnel working in the lab should understand how to care for the automatic analyzers to prevent avoidable mistakes.