

# *Profile*

## **Diagnostic Center**

Diagnostic centre manages the quality system concerned with the organizational process and the Technology for the investigations are planned, performed, monitored, recorded, archived and reported according to the International Standards for Organizations ( I S O 15189 ).

International standard requirements and statutory, local and national regulations followed at all times, engage ourselves to continually improve and achieve customer satisfaction levels. ( N A B L )

Quality, accurate, reliable and economical results are provided by constant up gradation of technology in the fields of Routine Hematology, Clinical Pathology, Clinical Biochemistry, Immunology, Serology and Microbiology to meet the needs of our Customers.

## **Quality Assurance**

System followed for Quality in the Diagnostic Center is an approach that continually extends quality control techniques and quality improvement methods to provide Right Report for Right Patient on Right Time. Procedures of the Diagnostic Center inherently establish accountability for laboratory results through the Analysts, instruments, reagents and analytical methods. And this allows the possibility of identifying more quickly the source(s) of error(s) and taking corrective/preventive action(s) to maintain acceptable quality of laboratory data to the Physicians. Appropriate and globally recognized analytical equipments as well as other material resources are used that are required for the services. Equipments are well maintained, tested and inspected regularly validated computer software and information is used for Data collection and storage Quality of the methods used is assured by the quality control programs performed internally and by external proficiency testing programmes. Procedures are undertaken regularly to maintain high standards for Reproducible results. Periodic performance / operation check done for all the equipments using reference materials is an added benefit for repeatedly assuring the quality. Certified standard reagents are used after validation for the purpose of analysis. Adequate data protection of the patient's information is provided and the patients can electronically view the results. Internal quality control for all laboratory

### **Current Fields of our Diagnostic Center are**

- Biochemistry
- Hematology and Clinical Pathology
- Microbiology and Serology

### **Analysis performed in Biochemistry are**

- Routine Chemistry
- Electrolytes
- Lipid Profile
- Lipo Proteins
- Liver Profile
- Cardiac Markers
- Pancreatic Profile
- Diabetic Profile
- Thyroid Profile
- Fertility Profile
- Immuno Chemistry
- Ortho Profile
- Anaemia Profile

### **Equipments included for performing the investigations of Biochemistry are**

- Automated Chemistry Analyser
- Dry Chemistry Analyser with Microslide Technology
- Semi Automated Analysers
- Electrolyte Analyser
- Fully Automated Microparticle Enzyme Immuno Assay Analyser
- Automated Hemoglobin Screening Analyser with HPLC Technology.

The Department participates in Unity Real Time Schemes conducted by BIO RAD for Internal Quality Control Program. Proficiency of Analytical Procedures are assessed through External Quality Assessment Scheme By BIORAD.

### **Analysis performed in Hematology and Clinical Pathology are**

- Fluid cytology
- Complete Hematology
- Coagulation studies

- Urine analysis
- Infertility Workup
- Blood Grouping
- Gynecologic cytology (Pap.screening)

**Equipments included for performing the investigations of Hematology and Clinical Pathology are**

- Automated Blood Cell Counter
- Automated Diamed ID Micro typing System for Blood Grouping
- Automated ESR Analyser
- Urine Analyser

Blood Cell Counter gives all the various blood parameters with scatter diagram. Coagulation studies like a PTT and PT are a routine. Infertility work-up, fluid studies are a part of the clinical pathology routine other than the routine urine tests and QBC and smear studies for malaria and filaria. We have both internal and external quality control programmes (BIO RAD) to validate our reports.

**Analysis performed in Microbiology and Serology are**

- Western blot for HIV confirmation.
- Immunoassay for Hepatitis markers
- Antibody detection tests
- Antigen detection for malaria and filariasis.
- Culture & sensitivity testing for Bacterial infections
- Other Serology investigations
- Staining Procedures

**Equipments included for performing the investigations of Microbiology and Serology are**

- Fully Automated Analyser for Serology
- Turbidometer
- ELISA Reader and Washer

Quality of the tests are strictly monitored by the National External Quality Assessment Scheme (EQAS) conducted by the Indian Association of Medical Microbiologists.

Diagnostic Centre can be enquired for the details of the investigations and results.