## Dry Biochemistry



The Department has a well equipped Clinical Biochemistry laboratory attached to Saveetha Medical College Hospital, which provides quality and timely reports to the various out and in patients attending SMCH.

Clinical Biochemistry lab runs Quality control and routine laboratory procedures to 2005 ensure quality reports. The laboratory services run 24x7 throughout the year. Advanced methods like Dry Chemistry, Wet chemistry, Immunochemistry, ion selective electrodes and HPLC are used to analyse various parameters. The turnaround time is less than 2 hours for most of the analytes performed in the laboratory to ensure patient care is not delayed and treatment is offered on the same day.

The VITROS® 5600- Ortho Clinical Diagnostics- Chemistry, Immunoassay, and Integrated systems reduce potential for error and the need for repeat testing to increase first pass yield, decrease costs, and improve turnaround time.VITROS® Systems do not require water, reducing costs and waste disposal while remaining environmentally friendly. 96.5% first pass yield (delivering results without user intervention). Integrated system is designed to help you efficiently consolidate critical testing to deliver quality and timely results to the physicians and patients who depend on you. It provides a comprehensive clinical chemistry and immunoassay menu on a single integrated platform, delivering high quality and productivity.

1	Basic biochemistry	Random ,Fasting &Post p
S.No.	Health Profiles	Parameters include
Laborato	ry services offered:	of MEDICAL 410

S.No.	Health Profiles	Parameters included in the profile
1	Basic biochemistry	Random ,Fasting &Post prandial glucose, Urea,
	investigations 🗧	Creatinine, uric acid, Liver function tests, Lipid
		profile, Calcium, Phosphorous, Thyroid profile ,
	3.	<b>CK – Total, CK –MB, Electrolytes, GTT</b>
2	Diabetic Profile	Fasting blood sugar, Post prandial blood sugar,
		HbA1c

3	Renal function tests (RFT)	Urea, Creatinine, uric acid
4	Liver function tests (LFT)	Total bilirubin, Direct Bilirubin, Total Protein, Albumin, ALT, AST, ALP, Albumin/Globulin ratio
5	Lipid Profile	Total Cholesterol, TGL, HDL, VLDL, LDL
6	Electrolytes	Sodium, Potassium, Chloride, Bicarbonate
7	Thyroid profile	<b>TSH, fT3, fT4</b>
8	Urine examination	24hrs urine protein, spot urinary creatinine, 2005 Sodium, Potassium, Calcium
9	ABG – Arterial Blood Gas analysis	Blood pH, SpO2, PCO2, Bicarbonate

## Special investigations done in Biochemistry laboratory:

Hormones	FSH , LH, Beta HCG, Prolactin , fasting Insulin	
Tumor markers	CA 125, PSA , Calcitriol	
Cardiac markers	Toptal CK, CK MB, Tropinin I Quantification.	
Special investigations	Folic acid, B12, Vitamin D, Ferritin	
Stone analysis	Gall stones, renal calculi, pancreatic, submandibular for the presence of cholesterol, calcium, oxalates, uric acid, bilirubin, phosphates.	
Urine examination	Urine micro albumin , urine cortisol	
Other body fluids	Glucose, protein, albumin, creatinine, uric acid, amylase,	
CSF, Pleural fluid,	lipase, adenosine deaminase.	
peritoneal fluid,		
pericardial fluid, synovial fluid	LE CONTRACTOR	
	2005 Thowledge Conquers All	