USER MANUAL

CHEMSCREEN

LABORATORY SERVICES INC

5th Edition

Issued under the authority of:

Dr. Tricia Boyce

Signature ……*T.Boyce*……

Revised: 01/10/2026

Contents

LOCATION / POSTAL ADDRESS: **3**
SERVICES PROVIDED **3**
POPULATION SERVED **3**
OPERATIONAL HOURS: **4**
TEST REQUISITION **5**
Completing The Requisition Form 5
Payment Structure 5
Labelling of Specimen 6
Urgent Requests 6
Verbal Requests 7
REJECTION CRITERIA **7**
STORAGE OF SPECIMENS **8**
PHLEBOTOMY SERVICES **10**
COURIER SERVICES **10**
SPECIMEN TRANSPORT TO THE LABORATORY **10**
ACCESSING RESULTS **11**
SPECIMEN CONTAINERS **11**
CONSULTATION **12**
COMPLAINTS **12**
CONFIDENTIALITY **12**

Table 1: Irreplaceable Specimens 8
Table 2: Time Sensitive Specimens 9
Table 3: Tests offered, reference ranges, units, and Collection containers 13
Table 4:Test Profiles And Their Standard Turn Around Time For Routine Work 22
Table 5:List of Tests offered during Emergency Duty 24

LOCATION / POSTAL ADDRESS:

ChemScreen Laboratory Services Inc. is located on the corner of George Street and 5th Avenue Belleville,

Address: #13, 5th Avenue Belleville.

St. Michael BB11114

Tel: (246) 228-9908

(246) 228-9907

Fax: (246) 436-8127

Email: info@chemscreenlab.com

SERVICES PROVIDED

- ***Microbiology***
- ***Clinical chemistry***
- ***Haematology***
- ***Serology***
- ***DNA. paternity testing.***
- ***Drug testing***
- ***Environmental analysis***
- ***Phlebotomy*** at three locations,
    1. #13, 5th Avenue Belleville St. Michael
    2. Warrens Healthcare Complex, Warrens St. Michael.
    3. Prerogative House. St. George
- ***Courier Service*** to and from doctors' offices, laboratories and clinics.
- ***Home Collections*** island wide.

POPULATION SERVED

ChemScreen Laboratory Services Inc. is a private laboratory which provides services to practitioners, hospitals, schools, cruise ships, and other health facilities and laboratories throughout the island.

OPERATIONAL HOURS:

Routine Laboratory Services Belleville St. Michael

Mondays to Fridays - 7.30 am-8.00 pm.

Saturdays & Sundays - 8.00 am – 05:00 pm.

Public Holidays – 9:00 am – 2:00 pm.

Phlebotomy hours

Belleville

Mondays to Fridays - 7.30 am - 05:00 pm

Saturdays - 8:00 am - 12:00 pm

Sundays and Public Holidays - Closed

Warrens

Mondays to Saturdays - 8:00 am - 12:00 pm
Sundays and Public Holidays – Closed

Prerogative

Mondays to Fridays - 8:00 am - 12:00 pm

Saturdays, Sundays and Public Holidays - Closed

Emergency Services

Specimens received during the following hours, are considered emergencies and an after-hour cost is applied:

Saturdays after 2:00 pm

Sundays after 12 Midday

Public Holidays – 9:00 am – 2:00 pm

NB: (Doctors need to call and request a pick up. See courier services for pick up times).

Refer *to* Table 5:List of Tests offered during Emergency Duty.

Courier Services

Mondays to Fridays - 8:30 am to 6:30 pm

Saturdays and Sundays - 9:00 am to 3:30 pm

Public holidays - 9:00 am to 12:30 pm

TEST REQUISITION

Completing The Requisition Form

ChemScreen Laboratory Services Inc. requisition forms come with carbonless duplicate or they are available online https://chemscreenlab.com

All information noted on the requisition forms must be legible for processing to occur.

Complete the requisition form with the following information:

- Name of patient
- National ID#
- Date of birth of patient
- Gender
- Doctor requesting test
- Location
- Date and time of collection
- Specimen Type
- Test required
- Diagnosis

Ensure that information is legible on both copies of requisition form.

Payment Structure

- Patients are required to pay for their tests prior to having the blood drawn on visiting the Laboratory.
- Charge accounts are available to physicians/ Clinics as long as they meet the required accounting criteria.
- Please contact the accounts department for more information.

Labelling of Specimen

All specimens must be clearly labelled using indelible ink with the following:

i. Name of patient
ii. National ID# and/or date of birth
iii. Date and time of collection (time of collection is especially required for timed specific specimens eg. Iron studies, PT, D-dimer)
iv. Location
v. Phlebotomist initials

Specimens must have at least two unique identifiers

1. ***Name of patient***
2. ***National ID # and / or date of birth***

Kindly note that in the case of microbiology, cytology and histology specimens must be clearly identified. Eg. Right ear, urine or fluid.

Urgent Requests

Urgent requests are those needed for immediate management of the patient.

Physician's shall :

i. Communicate the urgency prior to or upon sample collection directly to the Laboratory. Indicate whether you are dropping off the sample or whether a collection is required.
ii. Complete all relevant details on the request form and specimen container correctly and legibly;
iii. Leave their contact information with the laboratory or note it on the patients requisition form.

NB: Failure to comply may result in delayed reporting of results.

Verbal Requests

Verbal requests for laboratory services are permitted. Such requests are granted provided that:

1. The allowable time for addition of test is still relevant.
2. The correct sample type is available.
3. The volume is adequate.
4. The verbal request is followed by a fax or email with the updated information.
5. Payment is approved by ChemScreen Laboratory Services INC.

REJECTION CRITERIA

ChemScreen Laboratory Services desire to work with its clients to produce the best quality results.

It is therefore imperative that clients provide the best samples, comprehensively labelled, and well taken.

Note that the results obtained from the Laboratory are as good as the sample submitted to the Laboratory.

The following situations would therefore compromise testing and must be avoided. Repeat specimens would be required.

i. Leaking specimens
ii. Specimens with no name or illegible writing
iii. Incorrect container, device or media used for test ordered.
iv. No requisition form provided or no test ordered on requisition form.
v. Damaged samples.
vi. Insufficient sample (tubes not filled to required mark).
vii. Specimen containing clots for coagulation and hematology.
viii. Samples incorrectly stored

The specimens noted in Table 1 are considered irreplaceable, and special emphasis is mentioned here to avoid error with such samples. These samples require diligence in collection and processing.

Table 1: Irreplaceable Specimens

Number	Type of specimen
1.	Timed specimens eg. PTH, Cortisol, C-peptide
2.	Samples collected in an acute situation, where the clinical status of the patient may have changed eg. Drug overdose, hypoglycaemic state.
3.	Samples for culture, where antibiotic therapy has been started eg. Blood culture, wound swab.
4.	Bone Marrow
5.	CSF
6.	Tissue
7.	Other body fluids (not blood)
8.	Samples where recollection, presents a risk to patients

STORAGE OF SPECIMENS

It is ideal to have all specimens reach the Laboratory as soon as possible. However, in the event that this is not possible, **some specimens may be stored overnight**.

24-hour urines shall be stored in cool places and brought to the laboratory as soon as completed.

Refer to **Table 2** below, for a list of tests that have short life span and must reach the laboratory rapidly for separation or analysis.

Table 2: Time Sensitive Specimens

Stability in whole blood Note: Serum = red top container . EDTA = purple top, Lithium Heparin = green top container KEY: h = hour d = day m = month y = year			
Test	Container	At Room Temp	Refrigerated
C- Peptide	Serum or Lithium heparin	6h	6h
Cortisol	Serum	2h	4h
Folate	Serum or Lithium heparin	4h	4h
Lactate	Fluoride	6h	6h
	CSF plain	N/A	N/A
LDH	Serum or Lithium heparin	2h	4h
PTH	Serum	24h	24h
	Other	6h	6h
Iron	Serum	1h	1 h
Potassium	Serum or Lithium heparin	6h	2 h
Inorganic Phosphorous	Serum or Lithium heparin	2h	2h
Magnesium	Serum or Lithium heparin	6h	24h
Insulin	EDTA Serum	5h 5h	12h 12h
D Dimers	Citrate	6 h	
FBC	EDTA	24 h	24 h
HGB	EDTA	48 h	48 h
Manual Differential	EDTA	8 h	8 h
PT	Citrate	6 h	6 h
PTT	Citrate	6 h	6 h

PHLEBOTOMY SERVICES

Phlebotomy services are available to all our clients at Belleville, and the Prerogative and Warrens branches, and also available in the privacy of residences and hotels.

Warrens branch offers services from 8:00am to 12:00 midday, Monday to Saturday.

Prerogative offers services from 8:00am to 12:00 midday, Monday to Friday.

Belleville offers services from 7:30 am to 5:00 pm Monday to Friday and from 8:00 am to 12:00 midday on Saturdays.

Home/ Hotel / Ship/ Businesses collections are available by appointments. Kindly call our Belleville location at 1 246 228-9908 to set up an appointment.

Doctors or their assistants who perform phlebotomy at their offices should ensure that blood specimen containers are filled to the required mark on the vacutainer tubes to ensure adequate sample volume, and anticoagulant to blood ratio is satisfied.

COURIER SERVICES

ChemScreen Laboratory Services Inc. offers courier services to our clients island wide.

Couriers are equipped with coolers, spill kits, specimen bags and logs. Kindly sign courier logs when you give specimens or receive reports.

Call 1-246-228-9908 to request a pick up. (Refer to our hours of courier service for times available)

SPECIMEN TRANSPORT TO THE LABORATORY

Clients are also welcome to bring their specimens to the laboratory.

Specimens should be transported at the correct temperatures and sealed tight to avoid leakage,

Forms must be separated from specimens.

Biohazard specimen bags are best to use and can be obtained from the laboratory.

ACCESSING RESULTS

Printed results are delivered to clients by the courier daily.

Results are also phoned / faxed in cases of emergency, or when results exceed critical values. This is also performed as requested by the client.

Results can also be emailed to clients by request

In cases where there is no fax, or client has specially requested, results may be telephoned. Phoned results are to be repeated to Technologist to verify that the correct communication has occurred.

Clients can also access results online. For further information contact the laboratory.

SPECIMEN CONTAINERS

Clients using the services of ChemScreen Laboratory Services Inc. may obtain specimen collection vials from the Laboratory for their use under the condition that the containers are being returned to ChemScreen Laboratory Services Inc. only.

You may call the Laboratory and request the containers, which, can either be delivered by the courier or collected from the Laboratory.

Patient guidelines for the collection of specimens are also available from the laboratory.

CONSULTATION

ChemScreen Laboratory has consultants in every discipline that are available to work with, and advise clients on results obtained from the laboratory.

For this service kindly call the laboratory and speak to the Laboratory Supervisor or Laboratory Manager, who would be happy to make such arrangements.

COMPLAINTS

Complaints may be received through different types of communication to ChemScreen Laboratory Services such as telephone, email, or hard copies.

All complaints will be acknowledged, documented, and handled efficiently, fair, and professionally.

CONFIDENTIALITY

It is a condition of employment for all staff and consultants of ChemScreen Laboratory Services Inc. to maintain a highly confidential environment., ensuring all patient data is protected from unauthorized access.

NB: **Serum = Red top** **Sodium or Lithium Heparin = Green top**

EDTA = Purple top **Citrated plasma = Blue top**

Fluoride/ Oxalate = Grey top

Spot Urine = Plain urine container **24hr urine bottle is available from the Lab**

Table 3: Tests offered, reference ranges, units, and Collection containers

Test	Sample Type	Reference Range	Units
ANA (Anti Nuclear Antibody)	Serum, EDTA & Sodium / Lithium Heparin	Negative = <40.0	IU/mL
ALT- Alanine Transaminase	Serum / Lithium Heparin	3 to 48	IU/L
Albumin	Serum / Lithium Heparin	35 – 54	g/L
ALP - Alkaline Phosphatase	Serum/ Lithium Heparin	36 – 126	IU/L
AFP- Alpha fetoprotein	Serum	0.00 – 6.05	IU/ml
Amphetamine	Spot Urine	Neg = 0 - 1000	ng/ml
Amylase – urine	Spot urine	19-674	IU/L
Amylase- serum	Serum / Lithium Heparin	30 - 110	IU/L
ACE-Angiotensin Converting enzyme	Serum	13 - 75	IU/L
Anti-dsDNA -Anti Double stranded DNA	Serum	Negative < 30.0 IU/Ml	IU/ml
Anti TPO - Anti Thyroid Peroxidase	Serum	< 30	IU/ml
AST-Aspartate Transaminase	Serum/ Lithium Heparin	12 – 45	IU/L
Barbiturates	Spot Urine	Neg 0- 300	ng/mL
BJP-BenceJones Proteins	Spot Urine	Negative	N/A
Benzodiazepines	Spot Urine	Neg 0-300	ng/mL
β HCG (Beta Human Chorionic Gonadotropin)	Serum	0 - 05	miu/mL
β 2-Microglobulin	Serum	609 –2164	ng/mL

Table 3: Tests offered, reference ranges, units, and Collection containers

Test	Sample Type	Reference Range	Units
Bicarbonate	Serum/ Lithium Heparin	22 - 29	mmol/L
Bilirubin-Direct	Serum/ Lithium Heparin	0 - 3	mmol/L
Bilirubin-Total	Serum/ Lithium Heparin	6 to 22	mmol/L
Blood Group	EDTA		N/A
C Peptide	Serum	0.37 - 1.47	ng/mL
CA 125	Serum	0 -.35	IU/mL
CA -15.3	Serum	Premenopausal 0-36.5 Post-menopausal 0-46.8	IU/mL
CA- 19.9	Serum	0 - 33	IU/mL
Carbamazepine (Tegretol)	Serum	04 - 10	µg/mL
Calcium – Blood (Corrected for Albumin)	Lithium Heparin / Serum	2.10 - 2.54	mmol/L
Calcium – Urine	Spot urine	**Male** 5.0-92.5 **Female** 5.0 - 80	mmol/L
Calcium - 24 hr. urine	24hr Collection	2.50 -7.5	mmol/24hrs
Cannabis	Spot Urine	Negative (0-50)	ng/mL
CEA- Carcinoembryonic Antigen	Serum	**Male** a. Non Smoker 0-3.4 b. Smoker 0.0-6.3 **Female** a. Smoker 0.0-4.9 b. Non Smoker 0-2.5	ng/mL
Chlamydia IgM	Serum	Negative	
Chlamydia and Gonorrhea	Spot Urine	Not Detected	
Chloride – urine	Spot Urine	25 - 40	mmol/L
	24hr Collection	110 - 250	mmol / 24hrs

Table 3: Tests offered, reference ranges, units, and Collection containers

Test	Sample Type	Reference Range	Units
Chloride – blood	Serum/ Lithium Heparin	98 -107	mmol/L
Cholesterol (Total)	Serum/ Lithium Heparin	3.26 - 5.19	mmol/L
Cholinesterase	Serum	4100 - 9900	U/L
Cortisol	Serum	A.M 138-690 P.M ½ of A.M	nmol/L
C-Peptide	Serum	0.4 - 1.7	nmol/L
C-Reactive Protein – CRP	Serum/ Lithium Heparin	0 - 5	mg/L
Creatinine- blood	Serum/ Lithium Heparin	**Male** 67-121 **Female** 55-94	µmol/L
Creatinine- urine	Spot Urine	2,200-35,200	µmol/L
Creatinine Clearance -Blood and Urine	24hr Collection + Serum/ Lithium Heparin	1.29-2.62	ml/sec
CK–Creatinine Kinase	Serum/ Lithium Heparin	**Male** 64-644 **Female** 48-376	U/L
CKMB-Creatinine Kinase	Serum/ Lithium Heparin	**Male** 7-60 **Female** 8-22	U/L
DHEA-Dehydroepi-androsterone	Serum	**Male** 2.17 - 15.20 **Female** 0.95-11.67	µmol/L
Dengue IgG, IgM, NS1	Serum	Negative	
Digoxin (Lanoxin)	Serum	0.8 - 2.0	ng/ml
Dilantin (phenytoin)	Serum	10 -20	ug/ml
Direct and Indirect Coombs Test	EDTA/ Lithium Heparin/	Negative	N/A
Ethyl Glucuronide (ETG)	Spot Urine	Negative	
ESR- Erythrocyte Sedimentation Rate	EDTA	**Male** 0 -14 **Female** 0 - 20	mm/hr
Estradiol	Serum	**Male** 0 - 206	pmol/L

Table 3: Tests offered, reference ranges, units, and Collection containers

Test	Sample Type	Reference Range	Units
		Adult Female: a. Follicular 0- 587 b. Luteal 101- 905 c. Menopausal 0-110 d. Post-Menopausal 0-341 e. Oral Contraceptives 0-374	
Ethanol	Serum	0 - 10	mg/dl
Ethanol	Spot urine	Negative = < 20	mg/dl
FBC-Full Blood Count ▪ Hemoglobin	EDTA	Male - 14 - 18 Female - 11.5 -16.0	g/dl
▪ HCT		Male - 40 - 50 Female - 35 - 45	%
▪ MCH		26 - 34	pg
▪ MCHC		30.0 - 6.0	g/dl
▪ MCV		**Male** - 80 – 100 **Female** - 80 - 98	fL
▪ PLATELETS		140 - 00	10*3/ul
▪ RBC		Male - 4.20 - 6.50 Female - 3.90 - 5.20	10*6/ul
▪ WBC		4.0 - 11.0	10*3/ul
Ferritin	Serum	**Male** - 28-397 **Female** - 6-159	ng/ml
FIT test	Stool	Negative < 150	ngHb/ml
Folate	Serum	3-17	ng/ml
FSH- Follicle Stimulating Hormone	Serum	**Male** 0.7-11.1 **Adult Female:** a. Follicular 2.8-11.3 b. Luteal 1.2- 9.0 c. Post-Menopausal 9.7-111	uIU/mL

Table 3: Tests offered, reference ranges, units, and Collection containers

Test	Sample Type	Reference Range	Units
		d. Oral Contraceptives 0.0-4.9	
Food Allergy	Serum	Low	
FT4 - Free Thyroxine	Serum	10.0-24.0	pmol/L
Gamma Glutamyl Transferase – GGT	Lithium Heparin/ Serum	13-67	IU/L
GFR	Serum calculation	1. Normal GFR > 90 2. Kidney Damage- a. mild ↓ GFR 60 – 89 b. Moderate ↓ GFR 30 –59 c. Severe ↓ GFR 15-29 d. End stage renal disease < 15	
Globulin	Lithium Heparin/ Serum	23 - 34	g/L
Glucose	Fluoride / Oxalate Plasma	1. Fasting 3.5-6.1 2. Random 4.5-10.0 3. 1hr (drink) 3.5-6.30 4. 2hr pp 4.5-7.2 5. 3hr pp 4.5-7.7	mmol/L
Haemoglobin electrophoresis	EDTA whole blood	Normal AA	
HbA1c	EDTA	Non-Diabetics 3.0 - 6.0 Controlled Diabetics 6.0-8.0	%
HCV - Hepatitis C Virus	Serum	Negative	
HDL	Lithium Heparin/ Serum	0.75-1.87	mmol/L

Table 3: Tests offered, reference ranges, units, and Collection containers

Test	Sample Type	Reference Range	Units
Helicobacter pylori Ab (H. pylori)	Serum	Negative	
Helicobacter pylori Ag. (H. pylori)	Stool	Negative	
Hepatitis A	Serum	Negative	
Hepatitis B antigen	Serum	Negative	
Hepatitis B Surface Antibody	Serum	Non-immune < 10 Immune > /= 10	mIU/ml
HIV	Serum /Lithium Heparin	Negative	
HSV I & II (Herpes Simplex Virus)	Serum	Negative	
HTLV 1 + 2	Serum	Non reactive	
Immunofixation	Serum	Contact laboratory	
Immunoglobulins IgG, IgA, IgM	serum	Contact laboratory	
Infectious Mononucleosis	Serum	Negative	
Insulin	Serum	2.7 - 24.8	uIU/mL
Iron	Serum	F 37 – 170 M 49 - 181	ug/dl
LDH- Lactate Dehydrogenase	Serum	94-259	u/L
LDL- Cholesterol	Lithium Heparin/ Serum	1. Desirable <3.36 2. Borderline 3.36-4.11 3. High >4.43	mmol/L
Lipase	Serum	13 - 60	ng/ml
Lithium	Serum	1. Therapeutic 0.6-1.2 2. Potentially Toxic >1.5 3. Severe Toxicity >2.5	mmol/L

Table 3: Tests offered, reference ranges, units, and Collection containers

Test	Sample Type	Reference Range	Units
Lupus Erythematosus (SLE)	Serum	Negative	
Luteinizing Hormone -LH	Serum	1. **Male** 0.8-7.6 **2. Adult Female:** a. Follicular 1.1-11.6 b. Mid-Cycle 17-77 c. Luteal 0.0-14.7. d. Post-Menopausal 11.3 - 39.8	miu/ml
Magnesium-Urine	Spot Urine	**Male** 12-74 **Female** 7- 53	mmol/L
	24hr Collection	2.5 - 8.5	mmol/24hrs
Magnesium-blood	Lithium Heparin/ Serum	0.66 - 0.95	mmol/L
Mercury	Royal blue Tube available from lab	0 - 11	ng/ml
Microalbumin / Creatinine ratio	Urine	< 30.00 mg/L	mg/L
Myoglobin	Urine	Negative	
Nicotine	Spot Urine	Neg 0-5	ng/mL
Opiates	Spot Urine	Neg 0-2,000	ng/mL
Osmolality -Blood	Serum/ Lithium Heparin	271 - 286	mOsm/kg
Osmolality- urine	Spot Urine	500-800	mOsm/kg
Paraprotein Level	Spot Urine		g/L
PTH- Parathyroid Hormone	Serum	1.6-7.0	pmol/L
Phosphorus – Blood	Lithium Heparin/ Serum	0.57 - 1.59	mmol/L
Phosphorus - urine	24hr collection	13-42	mmol/24hrs
Potassium -Blood	Serum/ Lithium Heparin	3.1 - 4.4	mmol/L
Potassium -Urine	24hr Collection	25-125	mmol/24hrs

Table 3: Tests offered, reference ranges, units, and Collection containers

Test	Sample Type	Reference Range	Units
	Spot urine	40-120	mmol/L
Pregnancy Test	Spot Urine		N/A
PT/INR (Prothrombin Time)	Citrated plasma	11 - 15	seconds
PTT (Partial Thromboplastin Time)	Citrated plasma	23-39	seconds
Protein - urine	Spot Urine	0 - 150	mg/L
	24hr Collection	0 -150	mg/24hrs
Protein Electrophoresis – urine	Urine		
Progesterone	Serum	1. **Male** 0.86-2.90 2. **Female**: a. Follicular phase 1.21 – 2.99 b. Luteal Phase 24.7 – 85.9 c. Mid Luteal 30.15 -86.81 d. Post-Menopausal 0.64 - 1.56 e. Oral Contraceptives 1.1-2.9	nmol/L
Prolactin	Serum	**Male**: 2.5 - 17.0 Fe**male** :1.9 - 25.0	ng/mL
Prostatic Specific Antigen –PSA	Serum	0 - 4	ng/mL
PTH	Serum, EDTA plasma	1.6 – 7.0	pmol/L
RA Latex	Serum	Negative	
Reticulocyte Count	EDTA	0.2 – 2.5	%
Rubella antibody	Serum	>2 (Positive or Immune)	IU/ml

Table 3: Tests offered, reference ranges, units, and Collection containers

Test	Sample Type	Reference Range	Units
Sodium Blood	Lithium Heparin/ Serum	134 - 144	mmol/L
Sodium – urine spot	Spot urine	>40	mmol/L
Sodium – 24 hr urine	24hr Collection	40 – 220	mmol/24hrs
Syphillis-RPR	Serum	Nonreactive	
T3 - Free Triiodothyronine	Serum	2.3 - 6.3 pg/ml	pg/ml
T3-Total Triiodothyronine	Serum	1.2 - 2.7	nmol/L
Testosterone - Total	Serum	**Male** a. 20-49 yrs 2.5 - 9.6 b.≥ 50yrs 4.4 - 26.6 **Female**: a.Ovulating 0 - 2.5 b.Post-Menopausal 0 - 1.5	nmol/L
Testosterone – Free	Serum	**Male** a. -39 yrs 12.3 -46.6 b. 40-59 yrs 9.57 - 40 c. >59 yrs 7.72 - 31.4 **Female** 0.1 - 6.4	pg/ml
Total Iron binding Capacity- (TIBC)	Serum	245 - 400	µg/dL
Total Protein	Lithium Heparin/ Serum	62 - 80	g/L
Transferrin	Lithium Heparin/	200 - 360	mg/dL
Triglycerides	Lithium Heparin/ Serum	0.6 - 3.15	mmol/L
Troponin-I	Lithium Heparin/ Serum	Negative < 5	ng/ml
Urate	Lithium Heparin/ Serum	0.18-0.46	umol/L

Table 3: Tests offered, reference ranges, units, and Collection containers

Test	Sample Type	Reference Range	Units
Urea-Blood	Lithium Heparin/ Serum	2.5-6.5	mmol/L
Urine Urea- 24 hr	24hr Collection	250-600	mmol/24hrs
Valporic Acid	Serum	50-100	µg/mL
Vanillylmandelic Acid (VMA)	24hr Collection	Negative	N/A
Vitamin B12	Serum	174-878	pg/mL
Vitamin D	Serum	Deficiency < 10 Insufficiency 10 - 29 Sufficiency 30 - 100 Toxicity > 100	ng/mL

Table 4:Test Profiles And Their Standard Turn Around Time For Routine Work

PROFILE / TEST	TURN AROUND TIME
CORONARY RISK Cholesterol, Triglyceride, Direct -HDL, Direct LDL, VLDL	2 days
CHEM 6 Urea, Cholesterol, Glucose, ALT, AST, Creatinine.	2 days
ELECTROLYTES Sodium, Potassium, Chloride, Urea, Creatinine	2 days
CHEM 8 Na, K, Cl, Urea, Creatinine, Glu , Ca, Alb	2 days
CHEM 20 Na, K, Cl, Urea, Creat, Alk, AST,ALT,GGT,T Bili, Chol, Trig , HDL, LDL, Ca, Mg, Phos, TP, Alb, Uric, Glu.	2 days
LIVER FUNCTION I Total Bilirubin, ALT, AST, ALK-P, GGT	2 days
LIVER FUNCTION II Total Bilirubin, ALT, AST, ALK-P GGT, ALB, TP, Prothrombin Time	2 days
HEPATITIS	5 DAYS

PROFILE / TEST	TURN AROUND TIME
Hep A Ab IgM , HBsAg, HepC Ab	
INFERTILITY PANEL FSH, LH, Prolactin	5 DAYS
PRENATAL I FBC, Blood Group, HIV, VDRL	7 DAYS
COAGULATION PT / PTT, INR	24 HRS
IMMUNITY SCREEN Varicella Ab, MMR Ab, HbSAb	7 DAYS
STD PROFILE HIV, HEP B, SYPH, HSV 1 , HSV 11, CHLY	7 DAYS
THYROID PANEL TSH, FT4	5 DAYS
TOXICOLOGY SCREEN THC,COC, OPI, BARB, PCP, m AMP, AMP, BENZ, EDDP,BZO,	48 HRS CONFIRMATORY 5 DAYS
MENOPAUSE SCREEN FSH, LH, OESTRADIOL, PROGESTERONE, TSH	7 DAYS
ANAEMIA FBC, Vitamin B12, Folate, Serum Ferritin, Serum Iron, TIBC	7 DAYS
ARTHRITIC PROFILE CRP (Quantitative), R.A latex, ANA, CBC, ESR, Uric acid, Creatinine	7 DAYS
CARDIAC PROFILE I CK, CK-MB, AST, Troponin	Same day
CARDIAC PROFILE 2 CK-MB, Troponin	Same day.

NB: URGENT REQUESITIONS WILL BE FACILITATED

Table 5:List of Tests offered during Emergency Duty

CHEMISTRY
Amylase
Calcium (corrected)
Cardiac Profiles
Electrolytes
Ethanol (Urine)
Glucose
LFT'S
Magnesium
Phosphorous
Proteins
Total & Direct Bilirubin
Toxicology Screen (Urine)
Troponin
Chem 20
HAEMATOLOGY
FBC
ESR
D-DIMER
PT INR
PTT
SEROLOGY
βHCG
Dengue
MICROBIOLOGY
Culture / Sensitivity