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Cardiac Screen Ltd

**CARDIAC SCREEN LTD**  
**Provider of**  
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### BLOOD TESTS

PATIENT NAME: s

AGE: yrs

REF. DR:

DATE:

### COMPREHENSIVE METABOLIC PROFILE

#### NORMAL VALUES

SODIUM	mmol/L	128-145
POTASSIUM	mmol/L	3.8-5.1
BICARBONATE	mmol/L	18-33
CHLORIDE	mmol/L	98-108
GLUCOSE	mmol/L	4.1-6.6
CALCIUM	mmol/L	2.00-2.58
UREA	mmol/L	2.5-7.9
CREATININE	umol/L	53-106
eGFR	ml/min/1.73m <sup>2</sup>	
ALKALINE PHOSPHATASE	IU/L	42-141
ALANINE AMINOTRANSFERASE	IU/L	10-47
ASPARTATE AMINOTRANSFERASE	IU/L	11-38
TOTAL BILIRUBIN	umol/L	3-27
ALBUMIN	g/L	33-55
TOTAL PROTEIN	g/L	64-81
GAMMA GLUTAMYL TRANSFERASE	U/L	5-65
AMYLASE	U/L	14-97
URIC ACID	umol/L	131-476

The stages of CKD (Chronic Kidney Disease) are mainly based on measured or estimated GFR (Glomerular Filtration Rate).

<b>STAGE</b>	<b>GFR*</b>	<b>DESCRIPTION</b>
<b>1</b>	90+	Normal kidney function, but urine findings or structural abnormalities or genetic trait point to kidney disease.
<b>2</b>	60-89	Mildly reduced kidney function, and other findings(as for stage 1) point to kidney disease
<b>3A</b> <b>3B</b>	45-59 30-44	Moderately reduced kidney function.
<b>4</b>	15-29	Severely reduced kidney function
<b>5</b>	<15 or on dialysis	Very severe, or end stage kidney failure.

\* All GFR values are normalized to an average surface area (size) of 1.73m<sup>2</sup>  
The CKD eGuide is derived from the NICE, SIGN, and Renal Association guidelines

## LIPID PROFILE

### NORMAL VALUES

CHOLESTEROL	mmol/L	(Optimum <5.0)
TOTAL CHOLESTEROL/HDL RATIO		Male: ≤5, Female: ≤ 4.5
HDL	mmol/L	≥1.55
TRIGLYCERIDES	mmol/L	<1.70
LDL	mmol/L	<2.58
VLDL	mmol/L	< 0.7

### INTERPRETATION OF LIPID PROFILE:

	Interpretation	Cut-points mmol/L
<b>TOTAL CHOLESTEROL</b>	Desirable	<5.17
	Borderline	5.17-6.18
	High	6.20
<b>HDL</b>	Low HDL- Risk Factor	<1.03
	High HDL-Negative Risk factor (Desirable)	≥ 1.55
<b>TRIGLCERIDES</b>	Normal	<1.70
	Borderline High	1.70-2.25
	High	2.26-5.64
	Very high	≥ 5.65
<b>LDL</b>	Optimal	<2.58
	Near Optimal	2.58-3.33
	Borderline High	3.36-4.11
	High	4.13-4.88
	Very high	≥ 4.91
<b>TOTAL CHOL/HDL RATIO</b>	Low risk	Male: ≤ 5 female: ≤ 4.5
	High Risk	Male: >5 Female: > 4.5
<b>VLDL</b>	Normal	<0.7
	High	≥ 0.7

A complete cholesterol pictures is made up of three different things:

**HDL** (High Density Lipoprotein) is the good, Healthy cholesterol. HDL picks up and carries excess cholesterol from artery walls and brings it back to the liver for processing and removal. You want this number to be high—at least 1.55mmol/L—to protect your heart. Levels too low are bad for your health, increasing your risk for heart disease

**LDL** (Low Density Lipoprotein) is the bad, Lazy cholesterol. LDL is made by the liver to carry cholesterol to the body's cells and tissues. It may form deposits on the walls of arteries and other blood vessels. You want this number to be low.

**Triglycerides** are the most common forms of fat found in food and in the body. The visible fat on chicken and steak is actually triglycerides. If you are overweight, your body stores the extra calories you eat as triglycerides. People with high triglyceride levels often have low HDL (good cholesterol) levels; this combination is considered by many experts to be associated with an increased risk for heart disease.

## TOTAL BLOOD COUNT

### NORMAL VALUES

WHITE CELL COUNT	x10 <sup>9</sup> /L		3.0-10.0
RED CELL COUNT	x10 <sup>12</sup> /L		4.40-5.80
HAEMOGLOBIN	g/dL		13.0-17.0
HCT			0.37 -0.50
MCV	fL		80-99
MCH	pg		26.0-33.5
MCHC	g/dL		30-35
PLATELET COUNT	x10 <sup>9</sup> /L		150-400
LYMPOCYTES	%	x10 <sup>9</sup> /L	1.5-4.0
MIXED: (MONOCYTES, EOSINOPHIL, BASOPHIL)	%	x10 <sup>9</sup> /L	0.2-1.0
NEUTROPHILIS	%	x10 <sup>9</sup> /L	2.0-7.5
INR			
HAEMOGLOBIN A1c (HbA1c)	%		4.2-6.4
C'REACTIVE PROTEIN (CRP)	mg/dl		<0.0-7.5
CREATINE KINASE(CK)	U/L		30-380
MAGNESIUM	mmol/L		0.66-0.95
LEAD	U/L		99-192
NT-pro BNP (BNP)	pg/ml		<100
TROPONIN 1 (cTn1)	ng/ml		0.00-0.03
CREATINE KINASE MB(CK-MB)	ng/ml		0.0-3.5

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THYROID STIMULATING HORMONE(TSH) SCREENING :

## URINE ANALYSIS

GLUCOSE	Negative	
KETONES	Negative	
BILIRUBIN	Negative	
SPECIFIC GRAVITY		
BLOOD	Negative	
pH		
PROTEIN	Negative	
UROBILINOGEN	E.U./dL	
NITRITE	Negative	
WBC	Negative	
ALBUMIN	mg/L	5.0-200.0
CREATININE	mmol/L	1.5-30.0
ALBUMIN/CREATININE RATIO:	mg/mmol	0.1-140.0