





Lipid Panel		
Test	SI Units	Conventional Units
Total Cholesterol	Desirable: < 5.2 mmol/L	Desirable: < 200 mg/dL
riglycerides	Desirable : 1.7 – 2.2 mmol/L	Desirable : 150 – 199 mg/dL
IDL Cholesterol	Desirable : 1.0 – 1.5 mmol/L	Desirable : 40 - 59 mg/dL
DL Cholesterol	Desirable : <3.40 mmol/L	Desirable : <130 mg/dL
Chol/HDL Ratio	< 4.60	-
Renal Panel		
Test	SI Units	Conventional Units
Sodium	136 – 145 mmol/L	-
Potassium	3.5 – 5.1 mmol/L	-
Chloride	96 – 108 mmol/L	-
Sicarbonate	20-32 mmol/L	1-
Irea	2.76 – 8.07 mmol/L	16.6 – 48.5 mg/dL
7.00	Generic (M/F):	Generic (M/F):
		1 1 1
	≤ 1 year : 15 - 37 umol/L	≤ 1 year : 0.17 – 0.42 mg/dL
	> 1 year to 3 years : 21 - 36 umol/L	> 1 year to 3 years : 0.24 – 0.41 mg/dL
	> 3 years to 5 years : 27 - 42 umol/L	> 3 years to 5 years : 0.31 – 0.47 mg/dL
	> 5 years to 7 years : 28 - 52 umol/L	> 5 years to 7 years : 0.32 – 0.59 mg/dL
	> 7 years to 9 years : 35 - 53 umol/L	> 7 years to 9 years : 0.40 - 0.60 mg/dL
reatinine	> 9 years to 11 years : 34 - 65 umol/L	> 9 years to 11 years : 0.39 – 0.73 mg/dL
reatinine	> 11 years to 13 years : 46 - 70 umol/L	
		> 11 years to 13 years : 0.53 – 0.79 mg/d
	> 13 years to 15 years : 44 - 110 umol/L	> 13 years to 15 years : 0.50 – 1.20 mg/d
	Adults (Male): 50 - 120 umol/L	Adults (Male): 0.57 – 1.36 mg/dL
	Adults (Female): 35 - 83 umol/L	Adults (Female): 0.40 - 0.94 mg/dL
	( chale) of the same, a	ridate (remale). One of this
eGFR	>60 mL/min/1.73m <sup>2</sup>	
	< 0.18 Normal	
Jrine Protein Creatinine Ratio (UPCR)	> 2.50 suggests the presence of nephritic range of proteinuria.	-
4 hr Urine Total Protein		Adult (84/5), 25 425 (24b-
	Adult (M/F): < 0.025 – 0.125 g/24hr	Adult (M/F): 25 - 125 mg/24hr
4 hr Urine Creatinine Clearance	Adult (M/F): 71 – 151 mL/min	
4 hr Urine Uric Acid	Adult (M/F): 1.49 to 4.46 mmol/24hr	Adult (M/F): 250 to 750 mg/24hr
4 hr Urine Magnesium	Adult (M/F): 3.0 - 5.0 mmol/24hr	
4 hr Urine Phosphate	Adult (M/F): 13 – 42 mmol/24hr	
4 hr Urine Potassium	Adult (M/F): 25 -125 mmol/24hr	
4 hr Urine Sodium	Adult (M/F): 40 - 220 mmol/24hr	
4 hr Urine Chloride	Adult (M/F): 110 -250 mmol/24hr	-
		-
4 hr Urine Urea	Adult (M/F): 428 – 714 mmol/24hr	Adult (M/F): 26–43 g/24hr
4 hr Urine Microalbumin	Adult (M/F): < 30 mg/24hr	-
	Male	
	Normal: < 2.5 mg/mmol	
	Microalbuminuria : 2.5 - 30 mg/mmol	
	-	
tales address the control of the state of the	Macroalbuminuria : > 30 mg/mmol	
Irine Microalbumin / Creatinine Ratio		-
	Female	
	Normal : < 3.5 mg/mmol	
	Microalbuminuria: 3.5 - 30 mg/mmol	
	Macroalbuminuria : > 30 mg/mmol	
iver and Sens Danel		
iver and Bone Panel Test	SI Units	Conventional Units
otal Protein	60 – 80 g/L	6.0 – 8.0 g/dL
our riotem		
	up to 4 days : 28 to 44 g/L	up to 4 days : 2.8 to 4.4 g/dL
llbumin	4 days to 14 years : 38 to 54 g/L	4 days to 14 years : 3.8 to 5.4 g/dL
.12411111	14 - 18 years : 32 to 45 g/L	14 - 18 years : 3.2 to 4.5 g/dL
	> 18 years : 35 to 50 g/L	> 18 years : 3.5 to 5.0 g/dL
	10 years . 33 to 30 g/L	
lobulin		
ilobulin VG Ratio	20 to 34 g/L 1.3 to 2.4	2.0 to 3.4 g/dL 1.3 to 2.4







Total Bilirubin	Children with age ≥ 1 mth : Up to 17 μmol/L Adults : Up to 21 μmol/L	Children with age ≥ 1 mth : Up to 1.0 mg/ Adults : Up to 1.2 mg/dL
Direct Bilirubin	2.0-7.8 µmol/L	0.10 to 0.50 mg/dL
	Male	
	0 - 14 days : 83-248 U/L	
	15 days - < 1 year : 112 -469 U/L	
	1 - < 10 years : 142 - 335 U/L	
	10 -> 13 years : 129 - 417 U/L	
	13 - < 15 years : 116 - 468 U/L	
	15 - < 17 years : 82 - 331 U/L	
	17 - < 19 years : 55 - 149 U/L	
	>18 years : < 130 U/L	
Alkaline Phosphatase		-
	Female	
	0 - 14 days : 83-248 U/L	
	15 days - < 1 year : 112 -469 U/L	
	1 - < 10 years : 142 - 335 U/L	
	10 - > 13 years : 129 - 417 U/L	
	13 - < 15 years : 57 – 254 U/L	
	15 - < 17 years : 20 - 117 U/L	
	17 - < 19 years : 45 - 87 U/L	
	>18 years : < 105 U/L	
	Male: <51 U/L	
GOT (AST)	Female: <36 U/L	
	Male: <51 U/L	
GGPT (ALT)	· ·	
	Female: <36 U/L	
GGT	Male: <60 U/L	
	Female: <40 U/L	-
	Generic (M/F):	Generic (M/F):
	Up to 10 days : 1.90 to 2.60 mmol/L	Up to 10 days : 7.6 to 10.4 mg/dL
Calcium	>14 days and above : 2.25 to 2.75 mmol/L	>14 days and above : 9.0 to 11.0 mg/dL
aicium	18-60yrs : 2.15 to 2.50 mmol/L	18-60yrs : 8.6 to 10.0 mg/dL
	60-90yrs : 2.20 to 2.55 mmol/L	60-90yrs : 8.8 to 10.2 mg/dL
	>90yrs : 2.05 to 2.40 mmol/L	>90yrs : 8.2 to 9.6 mg/dL
	Up to 14 days : 1.90 to 2.70 mmol/L	Up to 14 days : 7.6 to 10.8 mg/dL
Albumin Adjusted Calcium	>14 days and above : 2.10 to 2.60 mmol/L	>14 days and above : 8.4 to 10.4 mg/dL
	Male	Male
	1 – 30 days : 1.25 – 2.25 mmol/L	1 – 30 days : 3.88 - 6.98 mg/dL
	1 – 12 months : 1.15 – 2.15 mmol/L	1 – 12 months : 3.56 - 6.67 mg/dL
	1 – 3 years : 1.00 – 1.95 mmol/L	1 – 3 years : 3.10 - 6.05 mg/dL
	4 – 6 years : 1.05 – 1.80 mmol/L	4 – 6 years : 3.26 - 5.58 mg/dL
	7 – 9 years : 0.95 – 1.75 mmol/L	7 – 9 years : 3.10 - 5.58 mg/dL
	10 – 12 years : 1.05 – 1.85 mmol/L	10 – 12 years : 3.26 - 5.27 mg/dL
	13 – 15 years : 0.95 – 1.65 mmol/L	13 - 15 years : 2.79 - 4.81 mg/dL
	16 – 18 years : 0.85 – 1.60 mmol/L	16 - 18 years : 2.48 - 4.81 mg/dL
	19 years and above : 0.81 – 1.45 mmol/L	19 years and above : 2.51 - 4.50 mg/dL
Phosphate		,
поѕрпасе	Female	Female
	1 – 30 days : 1.40 – 2.50 mmol/L	1 – 30 days : 4.34 - 7.75 mg/dL
	1 – 30 days : 1.40 – 2.30 mmol/L 1 – 12 months : 1.20 – 2.10 mmol/L	1 – 12 months : 3.72 - 6.51 mg/dL
	1 – 12 months : 1.20 – 2.10 mmol/L 1 – 3 years : 1.10 – 1.95 mmol/L	1 – 3 years : 3.41 - 6.05 mg/dL
	4 – 6 years : 1.05 – 1.80 mmol/L	4 – 6 years : 3.26 - 5.58 mg/dL
	7 – 9 years : 1.00 – 1.80 mmol/L	7 – 9 years : 2.95 - 5.43 mg/dL
	10 – 12 years : 1.05 – 1.70 mmol/L	10 – 12 years : 3.26 - 5.74 mg/dL
	13 – 15 years : 0.90 – 1.55 mmol/L	13 – 15 years : 2.95 - 5.12 mg/dL
	16 – 18 years : 0.80 – 1.55 mmol/L	16 – 18 years : 2.64 - 4.96 mg/dL
	19 years and above : 0.81 – 1.45 mmol/L	19 years and above : 2.51 - 4.50 mg/dL
Uric Acid	Male: 0.24 to 0.49 mmol/L	Male: 4.0 to 8.2 mg/dL
JIIC AUG	Female: 0.15 to 0.37 mmol/L	Female: 2.52 to 6.22 mg/dL
R A Factor	< 14 IU/mL	-
Cyclic Citrullinated Peptides Autoantibodies	.4711/-1	
ACCP)	< 17 U/mL	





	F	)
	4	
••		

Lactate Dehydrogenase (LDH)	Children (2-15y): 120 – 300 U/L Adults: <250 U/L	
Amylase	28 - 100 U/L	
Amylase	28 - 100 0/L	
Slucose Panel		
Test	SI Units	Conventional Units
	Fasting: 3.9 – 6.0 mmol/L	Fasting: 70 - 108 mg/dL
Glucose	Random : 3.9 – 11.0 mmol/L	Random : 70 - 198 mg/dL
	2hr Post Prandial : 3.6 – 7.8 mmol/L	2hr Post Prandial : 65 - 140 mg/dL
	Screening Ranges	
	Low risk of diabetes: ≤ 6.0%	
	Proceed to FPG or OGTT: 6.1 to 6.9%	
	High risk of diabetes: ≥ 7.0%	
lbA1c	Therapeutic Ranges	35
	Ideal : 4.5 to 6.4%	
	Optimal: 6.5 to 7.0%	
	Sub-optimal: 7.1 to 8.0%	
	Unacceptable: > 8.0%	
nsulin	2.6 - 24.9 µU/mL	
	Normal : < 3	
HOMA-INSULIN RESISTANCE (IR) SCORE	Moderate : 3 to 5	
	Severe: > 5	
pecial Proteins		
Test	SI Units	
	Male: 1.06 – 2.10 g/L	
Alpha2-Macroglobulin	Female: 1.15 – 2.52 g/L	
Complement C3	0.9 – 1.8 g/L	
Complement C4	0.10 - 0.40 g/L	
Anaemia Panel		
Test	SI Units	Conventional Units
ron	5.83 - 34.5 μmol/L	33 - 193 µg/dL
Total Iron Binding Capacity (TIBC)	28 - 77 μmol/L	154 - 430 μg/dL
6 Iron Saturation	21 - 54 %	
ransferrin	2.0 - 3.6 g/L	200 - 360 mg/dL
	Male:	
	< 1 year: 12-327 μg/L	
	1-3 years: 6-67 µg/L	
	4-6 years: 4-67 μg/L	
	7-12 years: 14-124 μg/L	
	13-17 years: 14152 μg/L	
	Adult: 30-400 μg/L	
erritin		
	Female:	
	< 1 year: 12-327 μg/L	
	1-3 years: 6-67 μg/L	
	4-6 years: 4-67 μg/L	
	<b>7</b> -12 years: 7-84 μg/L	
	13-17 years: 13-68 μg/L	
	13-17 years: 13-68 μg/L Adult: 13-150 μg/L	
olic Acid	13-17 years: 13-68 μg/L Adult: 13-150 μg/L Male: 10.2 – 73.0 nmol/L	
olic Acld	13-17 years: 13-68 μg/L Adult: 13-150 μg/L Male: 10.2 – 73.0 nmol/L Female: 10.9 – 84.5 nmol/L	-
	13-17 years: 13-68 μg/L Adult: 13-150 μg/L Male: 10.2 – 73.0 nmol/L	-
	13-17 years: 13-68 μg/L Adult: 13-150 μg/L Male: 10.2 – 73.0 nmol/L Female: 10.9 – 84.5 nmol/L	-
fitamin B12	13-17 years: 13-68 μg/L Adult: 13-150 μg/L Male: 10.2 – 73.0 nmol/L Female: 10.9 – 84.5 nmol/L	-
Folic Acid Fitamin B12 Cardiac Markers Test	13-17 years: 13-68 μg/L Adult: 13-150 μg/L Male: 10.2 – 73.0 nmol/L Female: 10.9 – 84.5 nmol/L	Conventional Units
fitamin B12 Cardiac Markers Test	13-17 years: 13-68 μg/L Adult: 13-150 μg/L Male: 10.2 – 73.0 nmol/L Female: 10.9 – 84.5 nmol/L 145 - 569 pmol/L	Conventional Units
fitamin B12 Cardiac Markers	13-17 years: 13-68 μg/L Adult: 13-150 μg/L Male: 10.2 – 73.0 nmol/L Female: 10.9 – 84.5 nmol/L 145 - 569 pmol/L	Conventional Units









	Risk stratification cutoff for cardiovascular disease	
	Male	
	Low: <6 pg/mL	
	Moderate : ≥ 6 to ≤ 12 pg/mL	
	Elevated : > 12 pg/mL	
	Female	
High Sensitive Troponin-I	Low: <4 pg/mL	-
	Moderate : ≥ 4 to ≤ 10 pg/mL	
	Elevated : > 10 pg/mL	
	AMI Exclusion	
	Male : < 34.2 pg/mL	
	Female : < 15.6 pg/mL	
СК-МВ	Male: < 6.23 ng/mL	
CK-IVID	Female: <4.89 ng/mL	-
	Low risk : Less than 1.0 mg/L	
	Average risk: Between 1.0 – 3.0 mg/L	1
HS C-Reactive Protein (hsCRP)	Increased risk : Greater than 3.0 mg/L	(200)
no c-neactive Floteili (IISCRP)		
	Suggestion of infection / other sources of inflammation :Greater	*
	than 5.0 mg/L	
Analinametain A1	Male: 1.04 – 2.02 g/L	
Apolipoprotein A1	Female: 1.08 – 2.25 g/L	
Analine metals D	Male: 0.66 – 1.33 g/L	
Apolipoprotein B	Female: 0.60 – 1.17 g/L.	
Apolipoproteln A1 / B Ratio	0.22 to 0.80 g/L	-
Homocysteine (HOC)	≤ 15 µmol/L	
hsTroponin T (hsTROP/TnT)		< 14 pg/mL
	Normal: <75 nmol/L	
Llpoprotein(a) (Lp(a))	Normal: <75 nmol/L Intermediate: 75 - 125 nmol/L	
Lipoprotein(a) [Lp(a)]	1	-
Lipoprotein(a) (Lp(a)) NT-proBNP	Intermediate: 75 - 125 nmol/L	- <125 pg/mL
	Intermediate: 75 - 125 nmol/L	- <125 pg/mL < 0.5 ug/mL
NT-proBNP D-Dimer (DDI)	Intermediate: 75 - 125 nmol/L	
NT-proBNP	Intermediate: 75 - 125 nmol/L	
NT-proBNP D-Dimer (DDI)	Intermediate: 75 - 125 nmol/L	
NT-proBNP D-Dimer (DDI) Thyroid Panel	Intermediate: 75 - 125 nmol/L Abnormal: >125 nmol/L	
NT-proBNP D-Dimer (DDI) Thyroid Panel	Intermediate: 75 - 125 nmol/L Abnormal: >125 nmol/L  SI Units	
NT-proBNP D-Dimer (DDI) Thyroid Panel	Intermediate: 75 - 125 nmol/L Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents:	
NT-proBNP D-Dimer (DDI) Thyroid Panel	Intermediate: 75 - 125 nmol/L Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 – 9.68 pmol/L	
NT-proBNP D-Dimer (DDI) Thyroid Panel	Intermediate: 75 - 125 nmol/L Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 – 9.68 pmol/L > 6 days to ≤ 3 months: 3.00 – 9.28 pmol/L	
NT-proBNP D-Dimer (DDI) Thyroid Panel	Intermediate: 75 - 125 nmol/L Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 – 9.68 pmol/L > 6 days to ≤ 3 months: 3.00 – 9.28 pmol/L > 3 months to ≤ 12 Months: 3.30 – 8.95 pmol/L	
NT-proBNP D-Dimer (DDI)  Thyroid Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 − 9.68 pmol/L > 6 days to ≤ 3 months: 3.00 − 9.28 pmol/L > 3 months to ≤ 12 Months: 3.30 − 8.95 pmol/L > 1 year to ≤ 6 Years: 3.70 − 8.45 pmol/L	
NT-proBNP D-Dimer (DDI) Thyroid Panel	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 – 9.68 pmol/L > 6 days to ≤ 3 months: 3.00 – 9.28 pmol/L > 3 months to ≤ 12 Months: 3.30 – 8.95 pmol/L > 1 year to ≤ 6 Years: 3.70 – 8.45 pmol/L > 6 years to ≤ 11 Years: 3.89 – 8.02 pmol/L	
NT-proBNP D-Dimer (DDI)  Thyroid Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 - 9.68 pmol/L >6 days to ≤ 3 months: 3.00 - 9.28 pmol/L >3 months to ≤ 12 Months: 3.30 - 8.95 pmol/L >1 year to ≤ 6 Years: 3.70 - 8.45 pmol/L >6 years to ≤ 11 Years: 3.89 - 8.02 pmol/L >11 years to ≤ 20 Years: 3.93 - 7.70 pmol/L	
NT-proBNP D-Dimer (DDI)  Thyroid Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 − 9.68 pmol/L >6 days to ≤ 3 months: 3.00 − 9.28 pmol/L >3 months to ≤ 12 Months: 3.30 − 8.95 pmol/L >1 year to ≤ 6 Years: 3.70 − 8.45 pmol/L >6 years to ≤ 11 Years: 3.89 − 8.02 pmol/L >11 years to ≤ 20 Years: 3.93 − 7.70 pmol/L Adults: 3.10 − 6.80 pmol/L  Pregnant women:	
NT-proBNP D-Dimer (DDI)  Thyroid Panel Test	SI Units  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 − 9.68 pmol/L > 6 days to ≤ 3 months: 3.00 − 9.28 pmol/L > 3 months to ≤ 12 Months: 3.30 − 8.95 pmol/L > 1 year to ≤ 6 Years: 3.70 − 8.45 pmol/L > 6 years to ≤ 11 Years: 3.89 − 8.02 pmol/L > 11 years to ≤ 20 Years: 3.93 − 7.70 pmol/L Adults: 3.10 − 6.80 pmol/L  Pregnant women: 1st Trimester: 3.78 - 5.98 pmol/L	
NT-proBNP D-Dimer (DDI)  Thyroid Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 − 9.68 pmol/L >6 days to ≤ 3 months: 3.00 − 9.28 pmol/L >3 months to ≤ 12 Months: 3.30 − 8.95 pmol/L >1 year to ≤ 6 Years: 3.70 − 8.45 pmol/L >6 years to ≤ 11 Years: 3.89 − 8.02 pmol/L >11 years to ≤ 20 Years: 3.93 − 7.70 pmol/L Adults: 3.10 − 6.80 pmol/L  Pregnant women:	
NT-proBNP D-Dimer (DDI)  Thyroid Panel Test	SI Units  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 − 9.68 pmol/L > 6 days to ≤ 3 months: 3.00 − 9.28 pmol/L > 3 months to ≤ 12 Months: 3.30 − 8.95 pmol/L > 1 year to ≤ 6 Years: 3.70 − 8.45 pmol/L > 6 years to ≤ 11 Years: 3.89 − 8.02 pmol/L > 11 years to ≤ 20 Years: 3.93 − 7.70 pmol/L Adults: 3.10 − 6.80 pmol/L  Pregnant women: 1st Trimester: 3.78 - 5.98 pmol/L	
NT-proBNP D-Dimer (DDI)  Thyroid Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 - 9.68 pmol/L > 6 days to ≤ 3 months: 3.00 - 9.28 pmol/L > 3 months to ≤ 12 Months: 3.30 - 8.95 pmol/L > 1 year to ≤ 6 Years: 3.70 - 8.45 pmol/L > 6 years to ≤ 11 Years: 3.89 - 8.02 pmol/L > 11 years to ≤ 20 Years: 3.93 - 7.70 pmol/L Adults: 3.10 - 6.80 pmol/L  Pregnant women: 1st Trimester: 3.78 - 5.98 pmol/L 2nd Trimester: 3.21 - 5.45 pmol/L	
NT-proBNP D-Dimer (DDI)  Thyroid Panel Test	SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 – 9.68 pmol/L >6 days to ≤ 3 months: 3.00 – 9.28 pmol/L >3 months to ≤ 12 Months: 3.30 – 8.95 pmol/L >1 year to ≤ 6 Years: 3.70 – 8.45 pmol/L >6 years to ≤ 11 Years: 3.89 – 8.02 pmol/L >11 years to ≤ 20 Years: 3.93 – 7.70 pmol/L Adults: 3.10 – 6.80 pmol/L  Pregnant women: 1st Trimester: 3.78 - 5.98 pmol/L 2nd Trimester: 3.21 - 5.45 pmol/L 3rd Trimester: 3.09 - 5.02 pmol/L	
NT-proBNP D-Dimer (DDI)  Thyroid Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 - 9.68 pmol/L > 6 days to ≤ 3 months: 3.00 - 9.28 pmol/L > 3 months to ≤ 12 Months: 3.30 - 8.95 pmol/L > 1 year to ≤ 6 Years: 3.70 - 8.45 pmol/L > 6 years to ≤ 11 Years: 3.89 - 8.02 pmol/L > 11 years to ≤ 20 Years: 3.93 - 7.70 pmol/L Adults: 3.10 - 6.80 pmol/L  Pregnant women: 1st Trimester: 3.78 - 5.98 pmol/L 2nd Trimester: 3.21 - 5.45 pmol/L	
NT-proBNP D-Dimer (DDI)  Thyroid Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 - 9.68 pmol/L >6 days to ≤ 3 months: 3.00 - 9.28 pmol/L >3 months to ≤ 12 Months: 3.30 - 8.95 pmol/L >1 year to ≤ 6 Years: 3.70 - 8.45 pmol/L >6 years to ≤ 11 Years: 3.89 - 8.02 pmol/L >11 years to ≤ 20 Years: 3.93 - 7.70 pmol/L Adults: 3.10 - 6.80 pmol/L  Pregnant women: 1st Trimester: 3.78 - 5.98 pmol/L 2nd Trimester: 3.21 - 5.45 pmol/L 3rd Trimester: 3.09 - 5.02 pmol/L	
NT-proBNP D-Dimer (DDI)  Thyroid Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 - 9.68 pmol/L >6 days to ≤ 3 months: 3.00 - 9.28 pmol/L >3 months to ≤ 12 Months: 3.30 - 8.95 pmol/L >1 year to ≤ 6 Years: 3.70 - 8.45 pmol/L >6 years to ≤ 11 Years: 3.89 - 8.02 pmol/L >11 years to ≤ 20 Years: 3.93 - 7.70 pmol/L Adults: 3.10 - 6.80 pmol/L  Pregnant women: 1st Trimester: 3.78 - 5.98 pmol/L 2nd Trimester: 3.21 - 5.45 pmol/L 3rd Trimester: 3.09 - 5.02 pmol/L	
NT-proBNP D-Dimer (DDI)  Thyroid Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 − 9.68 pmol/L >6 days to ≤ 3 months: 3.00 − 9.28 pmol/L >3 months to ≤ 12 Months: 3.30 − 8.95 pmol/L >1 year to ≤ 6 Years: 3.70 − 8.45 pmol/L >6 years to ≤ 11 Years: 3.89 − 8.02 pmol/L >11 years to ≤ 20 Years: 3.93 − 7.70 pmol/L Adults: 3.10 − 6.80 pmol/L  Pregnant women: 1st Trimester: 3.78 - 5.98 pmol/L 2nd Trimester: 3.21 - 5.45 pmol/L 3rd Trimester: 3.09 - 5.02 pmol/L  0-1 day: 10-22 pmol/L 2-6 days: 15.5-40.1 pmol/L 7 days-1 year: 13.9-26.1 pmol/L 2-7 years: 12.1-22.0 pmol/L	
NT-proBNP D-Dimer (DDI)  Thyroid Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 - 9.68 pmol/L >6 days to ≤ 3 months: 3.00 - 9.28 pmol/L >3 months to ≤ 12 Months: 3.30 - 8.95 pmol/L >1 year to ≤ 6 Years: 3.70 - 8.45 pmol/L >6 years to ≤ 11 Years: 3.89 - 8.02 pmol/L >11 years to ≤ 20 Years: 3.93 - 7.70 pmol/L Adults: 3.10 - 6.80 pmol/L  Pregnant women: 1st Trimester: 3.78 - 5.98 pmol/L 2nd Trimester: 3.21 - 5.45 pmol/L 3rd Trimester: 3.09 - 5.02 pmol/L  0-1 day: 10-22 pmol/L 2-6 days: 15.5-40.1 pmol/L 7 days-1 year: 13.9-26.1 pmol/L 2-7 years: 12.1-22.0 pmol/L 8-13 years: 13.9-22.1 pmol/L	
NT-proBNP D-Dimer (DDI)  Thyroid Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 - 9.68 pmol/L >6 days to ≤ 3 months: 3.00 - 9.28 pmol/L >3 months to ≤ 12 Months: 3.30 - 8.95 pmol/L >1 year to ≤ 6 Years: 3.70 - 8.45 pmol/L >6 years to ≤ 11 Years: 3.89 - 8.02 pmol/L >11 years to ≤ 20 Years: 3.93 - 7.70 pmol/L Adults: 3.10 - 6.80 pmol/L  Pregnant women: 1st Trimester: 3.78 - 5.98 pmol/L 2nd Trimester: 3.21 - 5.45 pmol/L 3rd Trimester: 3.09 - 5.02 pmol/L  0-1 day: 10-22 pmol/L 2-6 days: 15.5-40.1 pmol/L 7 days-1 year: 13.9-26.1 pmol/L 2-7 years: 12.1-22.0 pmol/L 8-13 years: 13.9-22.1 pmol/L 14-18 years: 13.6-23.2 pmol/L	
NT-proBNP D-Dimer (DDI) Thyrold Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 - 9.68 pmol/L >6 days to ≤ 3 months: 3.00 - 9.28 pmol/L >3 months to ≤ 12 Months: 3.30 - 8.95 pmol/L >1 year to ≤ 6 Years: 3.70 - 8.45 pmol/L >6 years to ≤ 11 Years: 3.89 - 8.02 pmol/L >11 years to ≤ 20 Years: 3.93 - 7.70 pmol/L Adults: 3.10 - 6.80 pmol/L  Pregnant women: 1st Trimester: 3.78 - 5.98 pmol/L 2nd Trimester: 3.21 - 5.45 pmol/L 3rd Trimester: 3.09 - 5.02 pmol/L  0-1 day: 10-22 pmol/L 2-6 days: 15.5-40.1 pmol/L 7 days-1 year: 13.9-26.1 pmol/L 2-7 years: 12.1-22.0 pmol/L 8-13 years: 13.9-22.1 pmol/L	
NT-proBNP D-Dimer (DDI) Thyrold Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 - 9.68 pmol/L >6 days to ≤ 3 months: 3.00 - 9.28 pmol/L >3 months to ≤ 12 Months: 3.30 - 8.95 pmol/L >1 year to ≤ 6 Years: 3.70 - 8.45 pmol/L >6 years to ≤ 11 Years: 3.89 - 8.02 pmol/L >11 years to ≤ 20 Years: 3.93 - 7.70 pmol/L Adults: 3.10 - 6.80 pmol/L  Pregnant women: 1st Trimester: 3.78 - 5.98 pmol/L 2nd Trimester: 3.78 - 5.98 pmol/L 3rd Trimester: 3.09 - 5.02 pmol/L  0-1 day: 10-22 pmol/L 2-6 days: 15.5-40.1 pmol/L 7 days-1 year: 13.9-26.1 pmol/L 2-7 years: 12.1-22.0 pmol/L 8-13 years: 13.6-23.2 pmol/L Adult: 12 - 22 pmol/L	
NT-proBNP D-Dimer (DDI) Thyrold Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 – 9.68 pmol/L >6 days to ≤ 3 months: 3.00 – 9.28 pmol/L >3 months to ≤ 12 Months: 3.30 – 8.95 pmol/L >1 year to ≤ 6 Years: 3.70 – 8.45 pmol/L >6 years to ≤ 11 Years: 3.89 – 8.02 pmol/L >11 years to ≤ 20 Years: 3.93 – 7.70 pmol/L Adults: 3.10 – 6.80 pmol/L  Pregnant women: 1st Trimester: 3.78 - 5.98 pmol/L 2nd Trimester: 3.78 - 5.92 pmol/L 3rd Trimester: 3.09 - 5.02 pmol/L  0-1 day: 10-22 pmol/L 7 days-1 year: 13.9-26.1 pmol/L 2-7 years: 13.9-26.1 pmol/L 2-1 years: 13.9-22.1 pmol/L 4-18 years: 13.6-23.2 pmol/L Adult: 12 - 22 pmol/L  Pregnant female:	
NT-proBNP D-Dimer (DDI) Thyrold Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 − 9.68 pmol/L >6 days to ≤ 3 months: 3.00 − 9.28 pmol/L >3 months to ≤ 12 Months: 3.30 − 8.95 pmol/L >1 year to ≤ 6 Years: 3.70 − 8.45 pmol/L >6 years to ≤ 11 Years: 3.89 − 8.02 pmol/L >11 years to ≤ 20 Years: 3.93 − 7.70 pmol/L Adults: 3.10 − 6.80 pmol/L  Pregnant women:  1st Trimester: 3.78 - 5.98 pmol/L 2nd Trimester: 3.78 - 5.98 pmol/L 3rd Trimester: 3.09 - 5.02 pmol/L  0-1 day: 10-22 pmol/L 2-6 days: 15.5-40.1 pmol/L 7 days-1 year: 13.9-26.1 pmol/L 2-7 years: 12.1-22.0 pmol/L 8-13 years: 13.6-23.2 pmol/L Adult: 12 - 22 pmol/L  Pregnant female: 1st Trimester: 12.1 − 19.6 pmol/L	
NT-proBNP D-Dimer (DDI) Thyrold Panel Test	Intermediate: 75 - 125 nmol/L  Abnormal: >125 nmol/L  SI Units  Group GEL Children, Adolescents: 0 to 6 days: 2.66 – 9.68 pmol/L >6 days to ≤ 3 months: 3.00 – 9.28 pmol/L >3 months to ≤ 12 Months: 3.30 – 8.95 pmol/L >1 year to ≤ 6 Years: 3.70 – 8.45 pmol/L >6 years to ≤ 11 Years: 3.89 – 8.02 pmol/L >11 years to ≤ 20 Years: 3.93 – 7.70 pmol/L Adults: 3.10 – 6.80 pmol/L  Pregnant women: 1st Trimester: 3.78 - 5.98 pmol/L 2nd Trimester: 3.78 - 5.92 pmol/L 3rd Trimester: 3.09 - 5.02 pmol/L  0-1 day: 10-22 pmol/L 7 days-1 year: 13.9-26.1 pmol/L 2-7 years: 13.9-26.1 pmol/L 2-1 years: 13.9-22.1 pmol/L 4-18 years: 13.6-23.2 pmol/L Adult: 12 - 22 pmol/L  Pregnant female:	





	19	
	0-1 day: 2-25 mlU/L	
	2-5 days: 0.70-15.2 mlU/L	
	6 days-3 months: 0.72-11.0 mlU/L	
	4-12 months: 0.73-8.35 mIU/L	
	1-6 years: 0.70-5.97 mIU/L	
	7-11 years: 0.60-4.84 mIU/L	
TSH	12-20 years: 0.51-4.30 mIU/L	
	Adult: 0.270-4.200 mIU/L	
	Barrier A formale	
	Pregnant female:	
	1st Trimester: 0.33 - 4.59 mIU/L	
	2nd Trimester: 0.35 - 4.10 mlU/L	
	3rd Trimester: 0.21 - 3.15 mlU/L	
Total T3	1.3-3.1 nmol/L	
Anti-Tg	<4.11 IU/mL	
Anti-TPO	<5.61 IU/mL	
Anti TSH Receptor (ATSHR; TRAb)	< 1.23 IU/L	
Thyroglobulin	3.68 to 64.15 ug/L	
Tumor Markers		
Test	SI Units	
	Tumor Marker Cutoff: < 7.1 ng/mL	
	Maternal serum range	
	Gestation Week 14: Up to 27.9 ng/mL	
Alpha Feto Protein (AFP)	Gestation Week 15 : Up to 30.9 ng/mL	
	Gestation Week 16: Up to 36.1 ng/mL	
	Gestation Week 17 : Up to 40.4 ng/mL	
	Gestation Week 18 : Up to 48.3 ng/mL	
	Gestation Week 19: Up to 54.8 ng/mL	
CA125	<36 U/mL	
CA 15-3	< 34.5 U/mL	1
CA 19-9	< 39 U/mL	+ 1
Carcinoembryonic Antigen (CEA)	< 5 µg/L	-
	< 4.000 ng/mL	-
		-
Total PSA	≥ 2.1 ng/m	
Total PSA Squamous Cell Carcinoma Antigen (SCC)	< 2.1 ng/mL	
Squamous Cell Carcinoma Antigen (SCC)	< 2.1 ng/mL	
Squamous Cell Carcinoma Antigen (SCC)  Hormones		
Squamous Cell Carcinoma Antigen (SCC)	SI Units	
Squamous Cell Carcinoma Antigen (SCC)  Hormones		
Squamous Cell Carcinoma Antigen (SCC)  Hormones	SI Units	
Squamous Cell Carcinoma Antigen (SCC)  Hormones	SI Units  Healthy Men: 5.50 – 103.00 pmol/L	
Squamous Cell Carcinoma Antigen (SCC)  Hormones	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women:	
Squamous Cell Carcinoma Antigen (SCC)  Hormones	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L	
Squamous Cell Carcinoma Antigen (SCC)  Hormones	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women:	
Squamous Cell Carcinoma Antigen (SCC)  Hormones	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L 25 – 29 years: 6.35 – 70.30 pmol/L 30 – 34 years: 4.11 – 58.00 pmol/L	
Squamous Cell Carcinoma Antigen (SCC)  Hormones	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L 25 – 29 years: 6.35 – 70.30 pmol/L 30 – 34 years: 4.11 – 58.00 pmol/L 35 – 39 years: 1.05 – 53.50 pmol/L	
Squamous Cell Carcinoma Antigen (SCC)  Hormones  Test	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L 25 – 29 years: 6.35 – 70.30 pmol/L 30 – 34 years: 4.11 – 58.00 pmol/L	
Squamous Cell Carcinoma Antigen (SCC)  Hormones  Test	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L 25 – 29 years: 6.35 – 70.30 pmol/L 30 – 34 years: 4.11 – 58.00 pmol/L 35 – 39 years: 1.05 – 53.50 pmol/L	
Squamous Cell Carcinoma Antigen (SCC)  Hormones  Test	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L 25 – 29 years: 6.35 – 70.30 pmol/L 30 – 34 years: 4.11 – 58.00 pmol/L 35 – 39 years: 1.05 – 53.50 pmol/L 40 – 44 years: 0.19 – 39.10 pmol/L	
Squamous Cell Carcinoma Antigen (SCC)  Hormones  Test	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L 25 – 29 years: 6.35 – 70.30 pmol/L 30 – 34 years: 4.11 – 58.00 pmol/L 35 – 39 years: 1.05 – 53.50 pmol/L 40 – 44 years: 0.19 – 39.10 pmol/L 45 – 50 years: 0.07 – 19.30 pmol/L	
Squamous Cell Carcinoma Antigen (SCC)  Hormones  Test	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L 25 – 29 years: 6.35 – 70.30 pmol/L 30 – 34 years: 4.11 – 58.00 pmol/L 35 – 39 years: 1.05 – 53.50 pmol/L 40 – 44 years: 0.19 – 39.10 pmol/L 45 – 50 years: 0.07 – 19.30 pmol/L Polycystic ovary syndrome (PCOS) women: 13.30 – 135.00	
Squamous Cell Carcinoma Antigen (SCC)  Hormones  Test	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L 25 – 29 years: 6.35 – 70.30 pmol/L 30 – 34 years: 4.11 – 58.00 pmol/L 35 – 39 years: 1.05 – 53.50 pmol/L 40 – 44 years: 0.19 – 39.10 pmol/L 45 – 50 years: 0.07 – 19.30 pmol/L Polycystic ovary syndrome (PCOS) women: 13.30 – 135.00	
Squamous Cell Carcinoma Antigen (SCC)  Hormones  Test	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L 25 – 29 years: 6.35 – 70.30 pmol/L 30 – 34 years: 4.11 – 58.00 pmol/L 35 – 39 years: 1.05 – 53.50 pmol/L 40 – 44 years: 0.19 – 39.10 pmol/L 45 – 50 years: 0.07 – 19.30 pmol/L Polycystic ovary syndrome (PCOS) women: 13.30 – 135.00 pmol/L	
Squamous Cell Carcinoma Antigen (SCC)  Hormones  Test	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L 25 – 29 years: 6.35 – 70.30 pmol/L 30 – 34 years: 4.11 – 58.00 pmol/L 35 – 39 years: 1.05 – 53.50 pmol/L 40 – 44 years: 0.19 – 39.10 pmol/L 45 – 50 years: 0.07 – 19.30 pmol/L Polycystic ovary syndrome (PCOS) women: 13.30 – 135.00 pmol/L  *Ovarian Reserve: Very low ovarian reserve: < 0.8 pmol/L	
Squamous Cell Carcinoma Antigen (SCC)  Hormones  Test	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L 25 – 29 years: 6.35 – 70.30 pmol/L 30 – 34 years: 4.11 – 58.00 pmol/L 35 – 39 years: 1.05 – 53.50 pmol/L 40 – 44 years: 0.19 – 39.10 pmol/L 45 – 50 years: 0.07 – 19.30 pmol/L Polycystic ovary syndrome (PCOS) women: 13.30 – 135.00 pmol/L  *Ovarian Reserve: Very low ovarian reserve: < 0.8 pmol/L Low ovarian reserve: 0.8 to < 4.5 pmol/L	
Squamous Cell Carcinoma Antigen (SCC)  Hormones  Test	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L 25 – 29 years: 6.35 – 70.30 pmol/L 30 – 34 years: 4.11 – 58.00 pmol/L 35 – 39 years: 1.05 – 53.50 pmol/L 40 – 44 years: 0.19 – 39.10 pmol/L 45 – 50 years: 0.07 – 19.30 pmol/L Polycystic ovary syndrome (PCOS) women: 13.30 – 135.00 pmol/L  *Ovarian Reserve: Very low ovarian reserve: < 0.8 pmol/L Low ovarian reserve: 0.8 to < 4.5 pmol/L Normal ovarian reserve: 4.5 to < 14.3 pmol/L	
Squamous Cell Carcinoma Antigen (SCC)  Hormones  Test	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L 25 – 29 years: 6.35 – 70.30 pmol/L 30 – 34 years: 4.11 – 58.00 pmol/L 35 – 39 years: 1.05 – 53.50 pmol/L 40 – 44 years: 0.19 – 39.10 pmol/L 45 – 50 years: 0.07 – 19.30 pmol/L Polycystic ovary syndrome (PCOS) women: 13.30 – 135.00 pmol/L  *Ovarian Reserve: Very low ovarian reserve: < 0.8 pmol/L Low ovarian reserve: 0.8 to < 4.5 pmol/L	
Squamous Cell Carcinoma Antigen (SCC)  Hormones	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L 25 – 29 years: 6.35 – 70.30 pmol/L 30 – 34 years: 4.11 – 58.00 pmol/L 35 – 39 years: 1.05 – 53.50 pmol/L 40 – 44 years: 0.19 – 39.10 pmol/L 45 – 50 years: 0.07 – 19.30 pmol/L Polycystic ovary syndrome (PCOS) women: 13.30 – 135.00 pmol/L  *Ovarian Reserve: Very low ovarian reserve: < 0.8 pmol/L Low ovarian reserve: 0.8 to < 4.5 pmol/L Normal ovarian reserve: 4.5 to < 14.3 pmol/L Good ovarian reserve: ≥ 14.3 pmol/L	
Squamous Cell Carcinoma Antigen (SCC)  Hormones  Test	SI Units  Healthy Men: 5.50 – 103.00 pmol/L  Healthy Women: 20 – 24 years: 8.71 – 83.60 pmol/L 25 – 29 years: 6.35 – 70.30 pmol/L 30 – 34 years: 4.11 – 58.00 pmol/L 35 – 39 years: 1.05 – 53.50 pmol/L 40 – 44 years: 0.19 – 39.10 pmol/L 45 – 50 years: 0.07 – 19.30 pmol/L Polycystic ovary syndrome (PCOS) women: 13.30 – 135.00 pmol/L  *Ovarian Reserve: Very low ovarian reserve: < 0.8 pmol/L Low ovarian reserve: 0.8 to < 4.5 pmol/L Normal ovarian reserve: 4.5 to < 14.3 pmol/L	





	Children (M/F)	
	< 1 week : 108-607 ug/dL	
	1-4 weeks : 31.6-431 ug/dL	
	1-12 months : 3.4-124 ug/dL	
	J.	
	1-4 years : 0.47-19.4 ug/dL	
	5-9 years : 2.8-85.2 ug/dL	
	Adult Male	
	10-14 Years : 24.4-247 ug/dL	
	15-19 Years : 70.2-492 ug/dL	
	20-24 Years: 211-492 ug/dL	
	25-34 Years : 160-449 ug/dL	
	35-44 Years : 88.9-427 ug/dL	
	45-54 Years : 44.3-331 ug/dL	
DHEA-S	-	
DREA-3	55-64 Years : 51.7-295 ug/dL	
	65-74 Years : 33.6-249 ug/dL	
	≥ 75 Years : 16.2-123 ug/dL	
	Adults Female	
	10-14 Years : 33.9-280 ug/dL	
	15-19 Years : 65.1-368 ug/dL	
	20-24 Years : 148-407 ug/dL	
	9	
	25-34 Years : 98.8-340 ug/dL	
	35-44 Years : 60.9-337 ug/dL	
	45-54 Years : 35.4-256 ug/dL	
	55-64 Years : 18.9-205 ug/dL	
	65-74 Years : 9.40-246 ug/dL	
	≥ 75 Years : 12.0-154 ug/dL	
	Male: 41.4 – 159 pmol/L	
	Female (non-pregnant):	
	Follicular phase: 45.4 – 854 pmol/L	
	Ovulation phase: 151 – 1461 pmol/L	
	Luteal phase: 81.9 – 1251 pmol/L	
ESTRADIOL	Postmenopausal: <505 pmol/L	
	, commonopassam soco pinio, a	
	Female (pregnant):	
	1st trimester: 563 – 11902 pmol/L	
	2nd trimester: 5729 – 78098 pmol/L	
	3rd trimester: 31287 - >110100 pmol/L	
	ord diffication of 110100 pilloys	
	Male: 1.5 – 12.4 IU/L	
	Female:	
	Follicular phase: 3.5 - 12.5 IU/L	
FOLLICLE STIMULATING HORMONE	Ovulation phase: 4.7 – 21.5 IU/L	
	Luteal phase: 1.7 – 7.7 IU/L	
	Postmenopausal: 25.8 – 134.8 IU/L	





	Male < 2.0 mIU/mL	
	Female: non-pregnant premenopausal ≤ 1 mIU/mL	
	Female: Postmenopausal: ≤7 mIU/mL	
	Gestation week Reference range (IU/L) (mIU/mL)	
	3 weeks: 5.8 - 71.2	
	4 weeks : 9.5 - 750.0	
	5 weeks : 217 - 7138	
L		
β-HUMAN CHORIONIC GONADOTROPIN (HCG	7 weeks : 3697 - 163563	
BETA)	8 weeks : 32065 - 149571	
	9 weeks : 63803 - 151410	
	10 weeks : 46509 - 186977	
	12 weeks : 27832 - 210612	
	14 weeks : 13950 - 62530	
	15 weeks : 12039 - 70791	
	16 weeks : 9040 - 56451	
	17 weeks : 8175 - 55868	
	18 weeks : 8099 - 58176	
	Male: 1.7 mlU/mL - 8.6 mlU/mL	
	Female:	
	Follicular phase: 2.4 mIU/mL - 12.6 mIU/mL	
LUTEINIZING HORMONE (LH)	Ovulation phase: 14.0 mIU/mL- 95.6 mIU/mL	
	Luteal phase : 1.0mlU/mL - 11.4 mlU/mL	
	Postmenopause: 7.7 mIU/mL - 58.5 mIU/MI	
DA DATUVDOID LIODAGONE	1.6.6.0 pmol/l	
PARATHYROID HORMONE	1.6-6.9 pmol/L	
	Male: 0.16 - 0.47 nmol/L	
	Farrals (ann ann-ann)	
	Female (non-pregnant):	
	Follicular Phase: 0.18-2.84 nmol/L	
	Ovulation Phase: 0.39-38.10 nmol/L	
DDOCESTEDONE	Luteal Phase: 5.82-75.90 nmol/L	
PROGESTERONE	Postmenopause: 0.16-0.40 nmol/L	
	Female (pregnant):	
	1st trimester: 35-141 nmol/L	
	2nd trimester: 80.80-264 nmol/L	
	3rd trimester: 187-681 nmol/L	
	Male: 4.04 - 15.2 ng/mL	
PROLACTIN	Female: 4.8-23.3 ng/mL (Non-pregnant)	
	Males:	
	20-49 yrs (5-95th percentile): 8.64-29.0 nmol/L	
TESTOSTEDONE	≥ 50 yrs (5-95th percentile): 6.68-25.7 nmol/L	
TESTOSTERONE	Famalas	
	Females:	
	20-49 yrs (5-95th percentile): 0.290-1.67 nmol/L	
	Male Male	
	20 - 49 years old : 0.198 - 0.619 nmol/L	
	>= 50 years old : 0.163 - 0.473 nmol/L	
Free Testosterone (calculated)		
	Female	
	20 - 49 years old : 0.003 - 0.033 nmol/L	
	>= 50 years old : 0.001 - 0.020 nmol/L	







	St.	
	Male	1
	20 - 49 years old : 4.360 - 14.300 nmol/L	-
	>= 50 years old : 3.590 - 11.000 nmol/L	1
	2- 30 years old . 5.350 - 11.000 millol/L	-
Bioavailable Testosterone (calculated)		
	<u>Female</u>	
	20 - 49 years old : 0.059 - 0.756 nmol/L	
	>= 50 years old : 0.030 - 0.430 nmol/L	
	Free Androgen Index (FAI) %	
	Male	-
	\$29 years old : 30.0 - 128.0 %	-
	<39 years old : 24.0 - 122.0 %	-
	<49 years old : 14.0 - 122.0 %	-
CALCULATED FREE ANDROGEN INDEX (FAI)		
,	>48 years old : 18.0 - 82.0 %	1
		1
	Female	
	≤ 49 years old : 0.4 - 8.4 %	1
	> 49 years old : 0.4 - 6.6 %	1
	Male	
		4
	20 - 49 years old : 16.5 - 55.9 nmol/L	-
	>= 50 years old : 19.3 - 76.4 nmol/L	4
Say Hormone Rinding Clob-lin (SURC)		
Sex Hormone Binding Globulin (SHBG)	<u>Female</u>	
	20 - 49 years old : 24.6 - 122 nmol/L	1
	>= 50 years old : 17.3 - 125 nmol/L	1
	11,721.01.0	
ACTH	1.6 to 13.9 pmol/L	
Test	SI Units	Conventional Units
lest		Conventional Units
	Deficient: < 25.0 nmol/L	
	Insufficient: 25.0 - 74.9 nmol/L	Deficient: < 10.0 ng/mL
VITAMIN D TOTAL	Desirable: 75.0 - 249.9 nmol/L	Insufficient: 10.0 - 29.9 ng/mL
	Possible Toxicity: ≥250.0 nmol/L	Desirable: 30.0 - 99.9 ng/mL
		Possible Toxicity: ≥ 100.0 ng/mL
IGE		
	A111.11	
	SI Units	
Test		-
Test		-
Test	Neonates (up to 28 days): < 1.5 IU/mL	-
Test		
Test	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL	
Test TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL	-
	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL	
	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL	
	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL	
	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL	
	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL	-
	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$	
	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L	
	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and Juvenile\$  0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L	
	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L	
	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L	
	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L	
TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L	
TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L 10 - 11 years: 0.58 to 3.58 g/L	
TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L 10 - 11 years: 0.58 to 3.58 g/L 14 - 15 years: 0.50 to 2.49 g/L	
TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L 10 - 11 years: 0.58 to 3.58 g/L	
TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L 10 - 11 years: 0.53 to 2.04 g/L 12 - 13 years: 0.50 to 2.49 g/L 14 - 15 years: 0.61 to 3.48 g/L	
TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L 10 - 11 years: 0.58 to 3.58 g/L 14 - 15 years: 0.50 to 2.49 g/L	
TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L 10 - 11 years: 0.53 to 2.04 g/L 12 - 13 years: 0.50 to 2.49 g/L 14 - 15 years: 0.61 to 3.48 g/L	
TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L 10 - 11 years: 0.53 to 2.04 g/L 12 - 13 years: 0.50 to 2.49 g/L 14 - 15 years: 0.61 to 3.48 g/L  Adult (>19 yrs): 0.7 - 4.0 g/L	
TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L 10 - 11 years: 0.53 to 2.04 g/L 12 - 13 years: 0.50 to 2.49 g/L 14 - 15 years: 0.50 to 2.49 g/L 16 - 19 years: 0.61 to 3.48 g/L  Adult (>19 yrs): 0.7 - 4.0 g/L	
TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L 10 - 11 years: 0.53 to 2.04 g/L 12 - 13 years: 0.58 to 3.58 g/L 14 - 15 years: 0.50 to 2.49 g/L 16 - 19 years: 0.61 to 3.48 g/L  Adult (>19 yrs): 0.7 - 4.0 g/L  Children and juvenile\$ 0 - 14 days : 3.20 to 12.10 g/L	
TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L 10 - 11 years: 0.53 to 2.04 g/L 12 - 13 years: 0.58 to 3.58 g/L 14 - 15 years: 0.50 to 2.49 g/L 16 - 19 years: 0.61 to 3.48 g/L  Adult (>19 yrs): 0.7 - 4.0 g/L  Children and juvenile\$ 0 - 14 days : 3.20 to 12.10 g/L 15 days - <1 yr: 1.48 to 6.31 g/L	
TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L 10 - 11 years: 0.53 to 2.04 g/L 12 - 13 years: 0.58 to 3.58 g/L 14 - 15 years: 0.50 to 2.49 g/L 16 - 19 years: 0.61 to 3.48 g/L  Adult (>19 yrs): 0.7 - 4.0 g/L  Children and juvenile\$ 0 - 14 days : 3.20 to 12.10 g/L 15 days - <1 yr: 1.48 to 6.31 g/L 1 - < 4 yrs : 3.17 to 9.94 g/L	
TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L 10 - 11 years: 0.53 to 2.04 g/L 12 - 13 years: 0.58 to 3.58 g/L 14 - 15 years: 0.50 to 2.49 g/L 16 - 19 years: 0.61 to 3.48 g/L  Adult (>19 yrs): 0.7 - 4.0 g/L  Children and juvenile\$ 0 - 14 days : 3.20 to 12.10 g/L 15 days - <1 yr: 1.48 to 6.31 g/L 1 - < 4 yrs : 3.17 to 9.94 g/L 4 - < 10 yrs : 5.01 to 11.70 g/L	
TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L 10 - 11 years: 0.53 to 2.04 g/L 12 - 13 years: 0.58 to 3.58 g/L 14 - 15 years: 0.50 to 2.49 g/L 16 - 19 years: 0.61 to 3.48 g/L  Adult (>19 yrs): 0.7 - 4.0 g/L  Children and juvenile\$ 0 - 14 days : 3.20 to 12.10 g/L 15 days - <1 yr: 1.48 to 6.31 g/L 1 - < 4 yrs : 3.17 to 9.94 g/L	
TOTAL IMMUNOGLOBULIN E	Infants in 1st year of life (>28 days and up to 1 year): < 15 IU/mL Children aged 1-5 years: <60 IU/mL Children aged 6-9 years: <90 IU/mL Children aged 10-15 years: <200 IU/mL Adults: <100 IU/mL  Children and juvenile\$ 0 - 1 year: 0.05 to 0.83 g/L 1 - 3 years: 0.20 to 1.00 g/L 4 - 6 years: 0.27 to 1.95 g/L 7 - 9 years: 0.34 to 3.05 g/L 10 - 11 years: 0.53 to 2.04 g/L 12 - 13 years: 0.58 to 3.58 g/L 14 - 15 years: 0.50 to 2.49 g/L 16 - 19 years: 0.61 to 3.48 g/L  Adult (>19 yrs): 0.7 - 4.0 g/L  Children and juvenile\$ 0 - 14 days : 3.20 to 12.10 g/L 15 days - <1 yr: 1.48 to 6.31 g/L 1 - < 4 yrs : 3.17 to 9.94 g/L 4 - < 10 yrs : 5.01 to 11.70 g/L	







	Children and juveniles	
	0 - 1 year : 0.00-1.45 g/L	
	1 - 3 years : 0.19-1.46 g/L	
	4 - 6 years : 0.24-2.10 g/L	
	7 - 9 years : 0.31-2.08 g/L	1
IgM	10 -11 years : 0.31-1.79 g/L	
	12 -13 years : 0.35 -2.39 g/L	
	14 -15 years : 0.15-1.88 g/L	
	16 -19 years : 0.23-2.59 g/L	
	Adult (>19 yrs): 0.4 - 2.3g/L	
Test	SI Units	Conventional Units
ANTI-STREPTOLYSIN-O (ASO)	≤ 200 IU/mL	
Ethanol	Flushing, slowly of reflexes, impaired visual activity: 0.02 - 0.10 g/dL.  Depression of CNS: > 0.10 g/dL.	
	Fatalities: > 0.40 g/dL.	
	12 - 20 Years : 0.70 — 0.91 mmol/L	12 - 20 Years : 1.70 - 2.21 mg/dL
Magnecium	< 60 Years: 0.66 – 1.07 mmol/L	< 60 Years: 1.60 - 2.60 mg/dL
Magnesium	< 60 Years: 0.66 – 1.07 mmol/L 60 - 90 Years: 0.66 – 0.99 mmol/L	< 60 Years: 1.60 - 2.60 mg/dL 60 - 90 Years: 1.60 - 2.41 mg/dL
Magnesium	< 60 Years: 0.66 – 1.07 mmol/L	< 60 Years: 1.60 - 2.60 mg/dL
Hepatitis B Surface Antigen (QUANTITATIVE)	< 60 Years: 0.66 – 1.07 mmol/L 60 - 90 Years: 0.66 – 0.99 mmol/L	< 60 Years: 1.60 - 2.60 mg/dL 60 - 90 Years: 1.60 - 2.41 mg/dL
Magnesium Hepatitis B Surface Antigen (QUANTITATIVE) (HSQ) Procalcitonin (PCT)	< 60 Years: 0.66 – 1.07 mmol/L 60 - 90 Years: 0.66 – 0.99 mmol/L > 90 Years: 0.70 – 0.95 mmol/L	< 60 Years: 1.60 - 2.60 mg/dL 60 - 90 Years: 1.60 - 2.41 mg/dL

### Insulin Like Growth Factor 1

Male		
Age (years)	Range	(ng/mL)
Age (years)	Low	High
3 months	12	94.1
6 months	11.8	94.6
1	11.8	96.4
2	13.9	104
3	18.9	116
4	26.8	134
5	36.6	156
6	47.1	184
7	57.5	216
8	67.5	254
9	76.9	296
10	85.7	343
11	93.9	392
12	101	434
13	108	467
14	115	489
15	120	501
16	125	503
17	129	495
18	132	476
19	134	450
20	136	421
21	137	394
22	137	370
23	136	348
24	135	328
25	132	310
26	130	295
27	128	282

Male			
Age (many)	Range (ng/ml)		
Age (years)	Low	High	
28	125	271	
29	123	263	
30	120	257	
31	118	253	
32	116	250	
33	114	247	
34	111	244	
35	109	242	
36	107	239	
37	105	236	
38	103	234	
39	101	231	
40	98.5	229	
41	96.4	226	
42	94.4	223	
43	92.4	221	
44	90.5	218	
45	88.5	216	
46	86.5	214	
47	84.6	211	
48	82.6	209	
49	80.6	207	
50	78.7	205	
51	76.7	203	
52	74.8	201	
53	72.8	200	
54	70.9	198	
55	68.9	196	

	Male	
Age (years)	Range (ng/ml)	
Age (years)	Low	High
56	67	195
57	65.3	194
58	63.7	193
59	62.3	192
60	61.1	191
61	60	190
62	59.2	189
63	58.5	188
64	57.9	188
65	57.4	187
66	56.8	186
67	56.3	186
68	55.8	185
69	55.2	185
70	54.7	185
71	54.1	184
72	53.6	184
73	53	184
74	52.4	184
75	51.9	184
76	51.3	184
77	50.7	184
78	50.2	184
79	49.6	184



Female		
Age (years)	Range (ng/mL)	
rke (Assus)	Low	High
3 months	13.8	86.4
6 months	15.4	92
1	18.7	104
2	26.1	128
3	34.2	155
4	43.2	185
5	53	216
6	63.6	250
7	75	286
8	87.3	324
9	99.9	363
10	112	398
11	123	427
12	132	451
13	140	468
14	146	480
15	151	485
16	154	485
17	156	479
18	156	466
19	155	449
20	152	429
21	148	410
22	143	392
23	138	375
24	134	359
25	130	343
26	126	329
27	122	315

Female				
Age (years)	Range	Range (ng/mL)		
Age (years)	Low	High		
28	118	303		
29	115	292		
30	112	281		
31	109	271		
32	107	263		
33	104	255		
34	102	248		
35	100	242		
36	98.3	238		
37	96.5	234		
38	94.8	231		
39	93.1	228		
40	91.4	227		
41	89.8	225		
42	88.1	224		
43	86.5	222		
44	84.9	221		
45	83.3	220		
46	81.8	219		
47	80.2	218		
48	78.7	218		
49	77.2	217		
50	75.7	215		
51	74.3	214		
52	72.8	212		
53	71.4	210		
54	70	207		
55	68.6	204		
56	67.3	201		

Female			
Age (years)	Range (ng/mL)		
wke (Aearz)	Low	High	
57	65.9	198	
58	64.6	194	
59	63.3	190	
60	62	186	
61	60.7	182	
62	59.5	179	
63	58.3	176	
64	57.3	173	
65	56.3	170	
66	55.5	168	
67	54.8	166	
68	54.2	164	
69	53.8	163	
70	53.5	162	
71	53.3	161	
72	53.2	160	
73	53.2	160	
74	53.3	160	
75	53.5	160	
76	53.7	161	
77	54	162	
78	54.3	163	
79	54.7	164	
80	55.1	166	







### FRIEDWALD FORMULA

$$\begin{split} &LDL\text{- C }(mg/dL) = [Total\ Cholesterol - \{(Triglycerides/2.2) + HDL\}]\ x\ 38.61 \\ &LDL\text{- C }(mmol/L) = Total\ Cholesterol - \{(Triglycerides/2.2) + HDL\} \end{split}$$

### Estimated Glomerular Filtration Rate (eGFR) calculated using the CKD-EPI equation:

#### Female:

When serum creatinine  $\leq$  **0.7 mg/dL**, eGFR =  $144 \times (Scr/0.7)^{-0.329} \times (0.993)^{Age}$ When serum creatinine  $\geq$  **0.7 mg/dL**, eGFR =  $144 \times (Scr/0.7)^{-1.209} \times (0.993)^{Age}$ 

### Male:

When serum creatinine  $\leq$ 0.9 mg/dL, eGFR =  $141 \times (Scr/0.9)^{-0.411} \times (0.993)^{Age}$ When serum creatinine  $\geq$ 0.9 mg/dL, eGFR =  $141 \times (Scr/0.9)^{-1.209} \times (0.993)^{Age}$ 

Where Scr is the serum Creatinine in mg/dL.

The eGFR is expressed in mL/min/1.73m2