Chemistry EHC Reference Ranges 2021												
Assay Display	Assay Description	Instrument/Bench Result Type	Age From	Age To	Sex	Reference Low	Reference High	Critical Low	Critical High	Linear Low	Linear High	Units of Measure
Acet	Acetaminophen Level	Numeric	0 Minutes	150 Years	All	10	30		199	10	600	mcg/mL
AFP	Alpha Fetoprotein Tumor Marker	Numeric	0 Minutes	4 Months	All	34				0.5	2700	ng/mL
AFP	Alpha Fetoprotein Tumor Marker	Numeric	4 Months	9 Months	All	1.6	112.8			0.5	2700	ng/mL
AFP	Alpha Fetoprotein Tumor Marker	Numeric	9 Months	30 Months	All	1.2	40.1			0.5	2700	ng/mL
AFP	Alpha Fetoprotein Tumor Marker	Numeric	30 Months	18 Years	All	0.8	4.5			0.5	2700	ng/mL
AFP	Alpha Fetoprotein Tumor Marker	Numeric	18 Years	150 Years	All	0.5	9			0.5	2700	ng/mL
AGAP	Anion Gap	Numeric	0 Minutes	150 Years	All	2	11					mmol/L
Alb	Albumin Level	Numeric	0 Minutes	14 Days	Male	3.1	4.3			1.5	6	gm/dL
Alb	Albumin Level	Numeric	14 Days	1 Years	Male	2.8	4.8			1.5	6	gm/dL
Alb	Albumin Level	Numeric	1 Years	8 Years	Male	3.8	4.7			1.5	6	gm/dL
Alb	Albumin Level	Numeric	8 Years	15 Years	Male	3.9	4.9			1.5	6	gm/dL
Alb	Albumin Level	Numeric	15 Years	18 Years	Male	4	5.2			1.5	6	gm/dL
Alb	Albumin Level	Numeric	18 Years	150 Years	Male	3.5	5.7			1.5	6	gm/dL
Alb	Albumin Level	Numeric	0 Minutes	14 Days	Female	3.1	4.3			1.5	6	gm/dL
Alb	Albumin Level	Numeric	14 Days	1 Years	Female	2.8	4.8			1.5	6	gm/dL
Alb	Albumin Level	Numeric	1 Years	8 Years	Female	3.8	4.7			1.5	6	gm/dL
Alb	Albumin Level	Numeric	8 Years	15 Years	Female	3.9	4.9			1.5	6	gm/dL
Alb	Albumin Level	Numeric	15 Years	18 Years	Female	3.8	5.1			1.5	6	gm/dL
Alb	Albumin Level	Numeric	18 Years	150 Years	Female	3.5	5.7			1.5	6	gm/dL
Alb Random	Albumin Level Urine Random	Numeric	0 Minutes	150 Years	All		1.8			1	1000	mg/dL
Alb/Cr Ratio	Ratio	Numeric	0 Minutes	150 Years	All		29					mg/gm
ALC	Ethanol Level	Numeric	0 Minutes	150 Years	All		10			10	600	mg/dL
ALP	Alkaline Phosphatase	Numeric	0 Minutes	14 Days	Male	76	233			5	1500	unit/L
ALP	Alkaline Phosphatase	Numeric	14 Days	1 Years	Male	113	443			5	1500	unit/L
ALP	Alkaline Phosphatase	Numeric	1 Years	10 Years	Male	132	315			5	1500	unit/L
ALP	Alkaline Phosphatase	Numeric	10 Years	13 Years	Male	119	393			5	1500	unit/L
ALP	Alkaline Phosphatase	Numeric	13 Years	15 Years	Male	107	442			5	1500	unit/L
ALP	Alkaline Phosphatase	Numeric	15 Years	17 Years	Male	75	312			5	1500	unit/L
ALP	Alkaline Phosphatase	Numeric	17 Years	18 Years	Male	49	139			5	1500	unit/L
ALP	Alkaline Phosphatase	Numeric	18 Years	150 Years	Male	34	104			5	1500	unit/L
ALP	Alkaline Phosphatase	Numeric	0 Minutes	14 Days	Female	76	233			5	1500	unit/L
ALP	Alkaline Phosphatase	Numeric	14 Days	1 Years	Female	113	443			5	1500	unit/L
ALP	Alkaline Phosphatase	Numeric	1 Years	10 Years	Female	132	315			5	1500	unit/L
ALP	Alkaline Phosphatase	Numeric	10 Years	13 Years	Female	119	393			5	1500	unit/L
ALP	Alkaline Phosphatase	Numeric	13 Years	15 Years	Female	52	239			5	1500	unit/L
ALP	Alkaline Phosphatase	Numeric	15 Years	17 Years	Female	45	108			5	1500	unit/L
ALP	Alkaline Phosphatase	Numeric	17 Years	18 Years	Female	40	80			5	1500	unit/L
ALP	Alkaline Phosphatase	Numeric	18 Years	150 Years	Female	34	104			5	1500	unit/L
ALT	Alanine Aminotransferase	Numeric	0 Minutes	1 Years	Male	6	30			3	25000	unit/L
ALT	Alanine Aminotransferase	Numeric	1 Years	13 Years	Male	9	23			3	25000	unit/L
ALT	Alanine Aminotransferase	Numeric	13 Years	18 Years	Male	9	22			3	25000	unit/L
ALT	Alanine Aminotransferase	Numeric	18 Years	150 Years	Male	7	52			3	25000	unit/L
ALT	Alanine Aminotransferase	Numeric	0 Minutes	1 Years	Female	6	30			3	25000	unit/L
ALT	Alanine Aminotransferase	Numeric	1 Years	13 Years	Female	9	23			3	25000	unit/L
ALT	Alanine Aminotransferase	Numeric	13 Years	18 Years	Female	8	21			3	25000	unit/L
ALT	Alanine Aminotransferase	Numeric	18 Years	150 Years	Female	7	52			3	25000	unit/L
AMKP	Amikacin Level Peak	Numeric	0 Minutes	150 Years	All	20	35		40	2.5	50	mcg/mL
AMKR	Amikacin Level Random	Numeric	0 Minutes	150 Years	All				40	2.5	50	mcg/mL
AMKT	Amikacin Level Trough	Numeric	0 Minutes	150 Years	All		7.9		10	2.5	50	mcg/mL
Ammonia	Ammonia Level	Numeric	0 Minutes	150 Years	All	16	53			10	1200	mcmol/L
AMY	Amylase Level	Numeric	0 Minutes	14 Days	All		10			10	6000	unit/L
AMY	Amylase Level	Numeric	14 Days	13 Weeks	All		16			10	6000	unit/L
AMY	Amylase Level	Numeric	13 Weeks	1 Years	All		37			10	6000	unit/L
AMY	Amylase Level	Numeric	1 Years	18 Years	All	18	76			10	6000	unit/L
AMY	Amylase Level	Numeric	18 Years	150 Years	All	29	103			10	6000	unit/L
Amy Random	Amylase Urine Random	Numeric	0 Minutes	150 Years	All	16	491			10	6000	unit/L
Amylase BF	Amylase Body Fluid	Numeric	0 Minutes	150 Years	All					10	6000	unit/L
AST	Aspartate Aminotransferase	Numeric	0 Minutes	14 Days	Male	30	146			5	20000	unit/L
AST	Aspartate Aminotransferase	Numeric	14 Days	1 Years	Male	19	61			5	20000	unit/L
AST	Aspartate Aminotransferase	Numeric	1 Years	7 Years	Male	20	40			5	20000	unit/L
AST	Aspartate Aminotransferase	Numeric	7 Years	12 Years	Male	17	33			5	20000	unit/L
AST	Aspartate Aminotransferase	Numeric	12 Years	18 Years	Male	13	32			5	20000	unit/L
AST	Aspartate Aminotransferase	Numeric	18 Years	150 Years	Male	13	39			5	20000	unit/L
AST	Aspartate Aminotransferase	Numeric	0 Minutes	14 Days	Female	30	146			5	20000	unit/L
AST	Aspartate Aminotransferase	Numeric	14 Days	1 Years	Female	19	61			5	20000	unit/L

Chemistry EHC Reference Ranges 2021												
Assay Display	Assay Description	Instrument/Bench Result Type	Age From	Age To	Sex	Reference Low	Reference High	Critical Low	Critical High	Linear Low	Linear High	Units of Measure
AST	Aspartate Aminotransferase	Numeric	1 Years	7 Years	Female	20	40			5	20000	unit/L
AST	Aspartate Aminotransferase	Numeric	7 Years	12 Years	Female	17	33			5	20000	unit/L
AST	Aspartate Aminotransferase	Numeric	12 Years	18 Years	Female	12	24			5	20000	unit/L
AST	Aspartate Aminotransferase	Numeric	18 Years	150 Years	Female	13	39			5	20000	unit/L
ATPO	Anti-TPO antibody	Numeric	0 Years	150 Years	All		8.9			0.3	10000	IU/mL
B12	Vitamin B12 Level	Numeric	0 Minutes	150 Years	All	180	914			50	2800	pg/mL
Beta HB	Beta Hydroxybutyrate	Numeric	0 Minutes	150 Years	All		0.3			0.1	8	mmol/L
BNP	B-Natriuretic Peptide	Numeric	0 Minutes	150 Years	All		99			1	4700	pg/mL
BUN	Blood Urea Nitrogen	Numeric	0 Minutes	14 Days	Male	3	22			2	390	mg/dL
BUN	Blood Urea Nitrogen	Numeric	14 Days	1 Years	Male	4	17			2	390	mg/dL
BUN	Blood Urea Nitrogen	Numeric	1 Years	10 Years	Male	9	22			2	390	mg/dL
BUN	Blood Urea Nitrogen	Numeric	10 Years	18 Years	Male	7	20			2	390	mg/dL
BUN	Blood Urea Nitrogen	Numeric	18 Years	150 Years	Male	7	25			2	390	mg/dL
BUN	Blood Urea Nitrogen	Numeric	0 Minutes	14 Days	Female	3	22			2	390	mg/dL
BUN	Blood Urea Nitrogen	Numeric	14 Days	1 Years	Female	4	17			2	390	mg/dL
BUN	Blood Urea Nitrogen	Numeric	1 Years	10 Years	Female	9	22			2	390	mg/dL
BUN	Blood Urea Nitrogen	Numeric	10 Years	18 Years	Female	7	18			2	390	mg/dL
BUN	Blood Urea Nitrogen	Numeric	18 Years	150 Years	Female	7	25			2	390	mg/dL
Ca	Calcium Level Total	Numeric	0 Minutes	1 Years	All	9	10.9	7	12.9	4	18	mg/dL
Ca	Calcium Level Total	Numeric	1 Years	150 Years	All	8.6	10.3	6.6	12.9	4	18	mg/dL
Calcium Random	Calcium Level Urine Random	Numeric	0 Minutes	150 Years	All					0.1	120	mg/dL
Carbamaz	Carbamazepine Level	Numeric	0 Minutes	150 Years	All	4	12		15	2	60	mcg/mL
Chloride Random	Chloride Urine Random	Numeric	0 Minutes	150 Years	All					15	800	mmol/L
Chol	Cholesterol Total	Numeric	0 Minutes	150 Years	Male		200			25	2100	mg/dL
Chol	Cholesterol Total	Numeric	0 Minutes	150 Years	Female		200			25	2100	mg/dL
CK	Creatine Kinase	Numeric	0 Minutes	150 Years	Male	30	223			10	45000	unit/L
CK	Creatine Kinase	Numeric	0 Minutes	150 Years	Female	30	223			10	45000	unit/L
CK MB	Creatine Kinase MB	Numeric	0 Minutes	6 Years	Male		9			1	2700	ng/mL
CK MB	Creatine Kinase MB	Numeric	6 Years	13 Years	Male		6			1	2700	ng/mL
CK MB	Creatine Kinase MB	Numeric	13 Years	18 Years	Male		5			1	2700	ng/mL
CK MB	Creatine Kinase MB	Numeric	18 Years	150 Years	Male		6			1	2700	ng/mL
CK MB	Creatine Kinase MB	Numeric	0 Minutes	6 Years	Female		6			1	2700	ng/mL
CK MB	Creatine Kinase MB	Numeric	6 Years	13 Years	Female		4			1	2700	ng/mL
CK MB	Creatine Kinase MB	Numeric	13 Years	18 Years	Female		2			1	2700	ng/mL
CK MB	Creatine Kinase MB	Numeric	18 Years	150 Years	Female		6			1	2700	ng/mL
Cl	Chloride	Numeric	0 Minutes	150 Years	All	98	107			50	200	mmol/L
CO2	Carbon Dioxide Level	Numeric	0 Minutes	150 Years	All	23	29	11	39	2	45	mmol/L
Corrected Creatinine Clearance	Corrected Creatinine Clearance	Numeric	0 Minutes	150 Years	Male							
Corrected Creatinine Clearance	Corrected Creatinine Clearance	Numeric	0 Minutes	150 Years	Female							
Cortisol	Cortisol	Numeric	0 Minutes	150 Years	All					0.4	110	mcg/dL
Cortisol 30 Min	Cortisol 30 Minutes Post ACTH	Numeric	0 Minutes	150 Years	All					0.4	110	mcg/dL
Cortisol 60 Min	Cortisol 60 Minutes Post ACTH	Numeric	0 Minutes	150 Years	All					0.4	110	mcg/dL
Cortisol BL	Cortisol BL	Numeric	0 Minutes	150 Years	All					0.4	110	mcg/dL
Creat	Creatinine	Numeric	0 Minutes	14 Days	Male	0.34	0.92			0.2	25	mg/dL
Creat	Creatinine	Numeric	14 Days	2 Years	Male		0.37			0.2	25	mg/dL
Creat	Creatinine	Numeric	2 Years	5 Years	Male		0.43			0.2	25	mg/dL
Creat	Creatinine	Numeric	5 Years	12 Years	Male	0.32	0.61			0.2	25	mg/dL
Creat	Creatinine	Numeric	12 Years	15 Years	Male	0.45	0.8			0.2	25	mg/dL
Creat	Creatinine	Numeric	15 Years	18 Years	Male	0.62	1.06			0.2	25	mg/dL
Creat	Creatinine	Numeric	18 Years	150 Years	Male	0.7	1.3			0.2	25	mg/dL
Creat	Creatinine	Numeric	0 Minutes	14 Days	Female	0.34	0.92			0.2	25	mg/dL
Creat	Creatinine	Numeric	14 Days	2 Years	Female		0.37			0.2	25	mg/dL
Creat	Creatinine	Numeric	2 Years	5 Years	Female		0.43			0.2	25	mg/dL
Creat	Creatinine	Numeric	5 Years	12 Years	Female	0.32	0.61			0.2	25	mg/dL
Creat	Creatinine	Numeric	12 Years	15 Years	Female	0.45	0.8			0.2	25	mg/dL
Creat	Creatinine	Numeric	15 Years	18 Years	Female	0.49	0.83			0.2	25	mg/dL
Creat	Creatinine	Numeric	18 Years	150 Years	Female	0.6	1.2			0.2	25	mg/dL
Creat Random	Creatinine Urine Random	Numeric	0 Minutes	150 Years	Male					1	900	mg/dL
Creat Random	Creatinine Urine Random	Numeric	0 Minutes	150 Years	Female					1	900	mg/dL
Creatinine BF	Creatinine Body Fluid	Numeric	0 Minutes	150 Years	All					0.2	75	mg/dL
CRP	C-Reactive Protein	Numeric	0 Minutes	150 Years	All		10			1	480	mg/L
CRP-HS	C-Reactive Protein High Sensitivity	Numeric	0 Minutes	150 Years	All		10			0.2	160	mg/L
DBIL	Bilirubin Direct	Numeric	0 Minutes	14 Days	Male	0.19	0.44			0.01	30	mg/dL
DBIL	Bilirubin Direct	Numeric	14 Days	1 Years	Male		0.18			0.01	30	mg/dL
DBIL	Bilirubin Direct	Numeric	1 Years	9 Years	Male		0.11			0.01	30	mg/dL

Chemistry EHC Reference Ranges 2021												
Assay Display	Assay Description	Instrument/Bench Result Type	Age From	Age To	Sex	Reference Low	Reference High	Critical Low	Critical High	Linear Low	Linear High	Units of Measure
DBIL	Bilirubin Direct	Numeric	9 Years	13 Years	Male		0.16			0.01	30	mg/dL
DBIL	Bilirubin Direct	Numeric	13 Years	18 Years	Male		0.25			0.01	30	mg/dL
DBIL	Bilirubin Direct	Numeric	18 Years	150 Years	Male		0.18			0.01	30	mg/dL
DBIL	Bilirubin Direct	Numeric	0 Minutes	14 Days	Female	0.19	0.44			0.01	30	mg/dL
DBIL	Bilirubin Direct	Numeric	14 Days	1 Years	Female		0.18			0.01	30	mg/dL
DBIL	Bilirubin Direct	Numeric	1 Years	9 Years	Female		0.11			0.01	30	mg/dL
DBIL	Bilirubin Direct	Numeric	9 Years	13 Years	Female		0.16			0.01	30	mg/dL
DBIL	Bilirubin Direct	Numeric	13 Years	18 Years	Female		0.23			0.01	30	mg/dL
DBIL	Bilirubin Direct	Numeric	18 Years	150 Years	Female		0.18			0.01	30	mg/dL
DIG	Digoxin Level	Numeric	0 Minutes	150 Years	All	0.9	2		2.5	0.2	15	ng/mL
eCrCl-Adult	Estimated Creatinine Clearance, Adult	Numeric	0 Minutes	150 Years	All	30				0	135	mL/min
eGFR-AA	Estimated GFR, African American	Numeric	0 Minutes	150 Years	All	60					150	mL/min/1.73m2
eGFR-NAA	Estimated GFR, Non African American	Numeric	0 Minutes	150 Years	All	60					150	mL/min/1.73m2
Ferritin	Ferritin Level	Numeric	0 Minutes	15 Days	Male	40	540			1	280000	ng/mL
Ferritin	Ferritin Level	Numeric	15 Days	6 Months	Male	15	375			1	280000	ng/mL
Ferritin	Ferritin Level	Numeric	6 Months	1 Years	Male	13	192			1	280000	ng/mL
Ferritin	Ferritin Level	Numeric	1 Years	16 Years	Male	10	56			1	280000	ng/mL
Ferritin	Ferritin Level	Numeric	16 Years	18 Years	Male	19	102			1	280000	ng/mL
Ferritin	Ferritin Level	Numeric	18 Years	150 Years	Male	24	336			1	280000	ng/mL
Ferritin	Ferritin Level	Numeric	0 Minutes	15 Days	Female	40	540			1	280000	ng/mL
Ferritin	Ferritin Level	Numeric	15 Days	6 Months	Female	15	375			1	280000	ng/mL
Ferritin	Ferritin Level	Numeric	6 Months	1 Years	Female	13	192			1	280000	ng/mL
Ferritin	Ferritin Level	Numeric	1 Years	16 Years	Female	10	56			1	280000	ng/mL
Ferritin	Ferritin Level	Numeric	16 Years	18 Years	Female	3	75			1	280000	ng/mL
Ferritin	Ferritin Level	Numeric	18 Years	150 Years	Female	11	307			1	280000	ng/mL
Folate	Folate Level	Numeric	0 Minutes	150 Years	All	5.9				0.8	20	ng/mL
FPSA/PSA RATIO	FPSA/PSA RATIO	Numeric	0 Minutes	150 Years	All							
FT4	Thyroxine Free	Numeric	0 Minutes	20 Days	All	1.35	4.48			0.3	5.5	ng/dL
FT4	Thyroxine Free	Numeric	20 Days	3 Years	All	0.74	1.38			0.3	5.5	ng/dL
FT4	Thyroxine Free	Numeric	3 Years	18 Years	All	0.61	1.06			0.3	5.5	ng/dL
FT4	Thyroxine Free	Numeric	18 Years	150 Years	All	0.58	1.64			0.3	5.5	ng/dL
G6PD Activity	G6PD Activity	Numeric	0 Minutes	150 Years	All					0	2000	unit/L
G6PD Screen	G6PD Screen	Calculation	0 Minutes	150 Years	All	7.9	16.3			0	21	unit/gmHGB
GENTP	Gentamicin Peak	Numeric	0 Minutes	150 Years	All	5	10		15	0.2	30	mcg/mL
GENTR	Gentamicin Level	Numeric	0 Minutes	150 Years	All				15	0.2	30	mcg/mL
GENTT	Gentamicin Trough	Numeric	0 Minutes	150 Years	All		1.9		2	0.2	30	mcg/mL
GGT	Gamma Glutamyl Transferase	Numeric	0 Minutes	14 Days	Male	17	158			3	3600	unit/L
GGT	Gamma Glutamyl Transferase	Numeric	14 Days	1 Years	Male	6	92			3	3600	unit/L
GGT	Gamma Glutamyl Transferase	Numeric	1 Years	11 Years	Male	5	12			3	3600	unit/L
GGT	Gamma Glutamyl Transferase	Numeric	11 Years	18 Years	Male	5	15			3	3600	unit/L
GGT	Gamma Glutamyl Transferase	Numeric	18 Years	150 Years	Male	9	64			3	3600	unit/L
GGT	Gamma Glutamyl Transferase	Numeric	0 Minutes	14 Days	Female	17	158			3	3600	unit/L
GGT	Gamma Glutamyl Transferase	Numeric	14 Days	1 Years	Female	6	92			3	3600	unit/L
GGT	Gamma Glutamyl Transferase	Numeric	1 Years	11 Years	Female	5	12			3	3600	unit/L
GGT	Gamma Glutamyl Transferase	Numeric	11 Years	18 Years	Female	5	15			3	3600	unit/L
GGT	Gamma Glutamyl Transferase	Numeric	18 Years	150 Years	Female	9	64			3	3600	unit/L
Glu	Glucose Level	Numeric	0 Minutes	6 Months	Male	55	117	40	150	10	2400	mg/dL
Glu	Glucose Level	Numeric	6 Months	18 Years	Male	70	126	45	450	10	2400	mg/dL
Glu	Glucose Level	Numeric	18 Years	150 Years	Male	70	105	45	450	10	2400	mg/dL
Glu	Glucose Level	Numeric	0 Minutes	6 Months	Female	55	117	40	150	10	2400	mg/dL
Glu	Glucose Level	Numeric	6 Months	18 Years	Female	70	126	45	450	10	2400	mg/dL
Glu	Glucose Level	Numeric	18 Years	150 Years	Female	70	105	45	450	10	2400	mg/dL
Glu 1h Conf	Glu 1h Conf	Numeric	0 Minutes	150 Years	Male			45	450	10	2400	mg/dL
Glu 1h Conf	Glu 1h Conf	Numeric	0 Minutes	150 Years	Female			45	450	10	2400	mg/dL
Glu 2h Conf	Glu 2h Conf	Numeric	0 Minutes	150 Years	All			45	450	10	2400	mg/dL
Glu 3h Conf	Glu 3h Conf	Numeric	0 Minutes	150 Years	All			45	450	10	2400	mg/dL
Glu Fast Conf	Glu Fast Conf	Numeric	0 Minutes	150 Years	All			45	450	10	2400	mg/dL
Glu Gestational Screen	Glucose Rapid Gestational Screen	Numeric	0 Minutes	150 Years	All			45	450	10	2400	mg/dL
Glucose 0.5 Hour	Glucose 0.5 Hour	Numeric	0 Minutes	150 Years	All			45	450	10	2400	mg/dL
Glucose 1 Hour	Glucose 1 Hour	Numeric	0 Minutes	150 Years	All			45	450	10	2400	mg/dL
Glucose 1.5 Hour	Glucose 1.5 Hour	Numeric	0 Minutes	150 Years	All			45	450	10	2400	mg/dL
Glucose 2 Hours	Glucose 2 Hours	Numeric	0 Minutes	150 Years	All			45	450	10	2400	mg/dL
Glucose BF	Glucose Body Fluid	Numeric	0 Minutes	150 Years	All					10	2400	mg/dL
Glucose CSF	Glucose CSF	Numeric	0 Minutes	150 Years	All	40	70			10	800	mg/dL
Glucose Fasting	Glucose, Fasting	Numeric	0 Minutes	150 Years	Male	70	105	45	450	10	2400	mg/dL

Chemistry EHC Reference Ranges 2021												
Assay Display	Assay Description	Instrument/Bench Result Type	Age From	Age To	Sex	Reference Low	Reference High	Critical Low	Critical High	Linear Low	Linear High	Units of Measure
Glucose Fasting	Glucose, Fasting	Numeric	0 Minutes	150 Years	Female	70	105	45	450	10	2400	mg/dL
Glucose Random	Glucose Random	Numeric	0 Minutes	150 Years	All					10	2400	mg/dL
HCG Quant	Beta Human Chorionic Gonadotropin Quant	Numeric	0 Minutes	150 Years	All		4			1	240000	mIU/mL
HDL	HDL Cholesterol	Numeric	0 Minutes	150 Years	All	23	92			3	190	mg/dL
Homocyst	Homocysteine Total	Numeric	0 Minutes	15 Years	Male		9.9			2	440	mcmol/L
Homocyst	Homocysteine Total	Numeric	15 Years	65 Years	Male		14.9			2	440	mcmol/L
Homocyst	Homocysteine Total	Numeric	65 Years	150 Years	Male		19.9			2	440	mcmol/L
Homocyst	Homocysteine Total	Numeric	0 Minutes	15 Years	Female		9.9			2	440	mcmol/L
Homocyst	Homocysteine Total	Numeric	15 Years	65 Years	Female		14.9			2	440	mcmol/L
Homocyst	Homocysteine Total	Numeric	65 Years	150 Years	Female		19.9			2	440	mcmol/L
Ht cm	Height	Numeric	0 Minutes	150 Years	All							
INDBIL	Bilirubin Indirect	Numeric	0 Minutes	150 Years	All	0.1	1			0.01		mg/dL
Insulin	Insulin Level Total	Numeric	0 Minutes	2 Years	All	0.8	30			0.5	2700	mIU/L
Insulin	Insulin Level Total	Numeric	2 Years	10 Years	All	1.5	30.7			0.5	2700	mIU/L
Insulin	Insulin Level Total	Numeric	10 Years	18 Years	All	2.8	79.6			0.5	2700	mIU/L
Insulin	Insulin Level Total	Numeric	18 Years	150 Years	All	1.9	23			0.5	2700	mIU/L
IOPTH	Intraoperative PTH	Numeric	0 Minutes	150 Years	All	12	88			6	30000	pg/mL
K	Potassium Level	Numeric	0 Minutes	1 Years	All	3.5	5.1	3	7.1	1	10	mmol/L
K	Potassium Level	Numeric	1 Years	150 Years	All	3.5	5.1	3	6	1	10	mmol/L
K Random	Potassium Level Urine Random	Numeric	0 Minutes	150 Years	All					2	400	mmol/L
Lactic Acid	Lactic Acid	Numeric	0 Minutes	150 Years	All	0.5	2.2		3.9	0.2	30	mmol/L
LDH	Lactate Dehydrogenase	Numeric	0 Minutes	14 Days	Male	256	1017			25	3600	unit/L
LDH	Lactate Dehydrogenase	Numeric	14 Days	1 Years	Male	135	375			25	3600	unit/L
LDH	Lactate Dehydrogenase	Numeric	1 Years	10 Years	Male	159	266			25	3600	unit/L
LDH	Lactate Dehydrogenase	Numeric	10 Years	15 Years	Male	130	225			25	3600	unit/L
LDH	Lactate Dehydrogenase	Numeric	15 Years	18 Years	Male	107	207			25	3600	unit/L
LDH	Lactate Dehydrogenase	Numeric	18 Years	150 Years	Male	140	271			25	3600	unit/L
LDH	Lactate Dehydrogenase	Numeric	0 Minutes	14 Days	Female	256	1017			25	3600	unit/L
LDH	Lactate Dehydrogenase	Numeric	14 Days	1 Years	Female	135	375			25	3600	unit/L
LDH	Lactate Dehydrogenase	Numeric	1 Years	10 Years	Female	159	266			25	3600	unit/L
LDH	Lactate Dehydrogenase	Numeric	10 Years	15 Years	Female	130	225			25	3600	unit/L
LDH	Lactate Dehydrogenase	Numeric	15 Years	18 Years	Female	107	207			25	3600	unit/L
LDH	Lactate Dehydrogenase	Numeric	18 Years	150 Years	Female	140	271			25	3600	unit/L
LDH Body Fluid	Lactate Dehydrogenase Body Fluid	Numeric	0 Minutes	150 Years	All					25	3600	unit/L
LDL	LDL Cholesterol	Numeric	0 Minutes	150 Years	All		99					mg/dL
Lipase	Lipase Level	Numeric	0 Minutes	150 Years	All	11	82			3	3000	unit/L
Lithium	Lithium Level	Numeric	0 Minutes	150 Years	All	0.6	1.2		2	0.1	5	mmol/L
Mag Random	Magnesium Level Urine Random	Numeric	0 Minutes	150 Years	All					1	100	mg/dL
Methotrexate	Methotrexate Level	Numeric	0 Minutes	150 Years	All				10	0.08	120	mcmol/L
MG	Magnesium Level	Numeric	0 Minutes	14 Days	All	1.9	3.8	0.9	5.5	0.5	24	mg/dL
MG	Magnesium Level	Numeric	14 Days	1 Years	All	1.9	3	0.9	5.5	0.5	24	mg/dL
MG	Magnesium Level	Numeric	1 Years	150 Years	All	1.9	2.7	0.9	5.5	0.5	24	mg/dL
Myoglobin	Myoglobin	Numeric	0 Minutes	150 Years	Male	17	106			1	35000	ng/mL
Myoglobin	Myoglobin	Numeric	0 Minutes	150 Years	Female	14	66			1	35000	ng/mL
Na	Sodium Level	Numeric	0 Minutes	1 Years	All	131	144	130	150	50	200	mmol/L
Na	Sodium Level	Numeric	1 Years	150 Years	All	136	145	126	155	50	200	mmol/L
Non-HDL	Non-HDL Cholesterol	Numeric	0 Minutes	150 Years	All		129					mg/dL
Osmo, Calc	Calculated Osmolality	Numeric	0 Minutes	150 Years	All	275	295					mOsm/kg
p2PSA	p2PSA	Numeric	0 Minutes	150 Years	All	2.86	90.78			5	4900	pg/mL
Phenobarb	Phenobarbital Level	Numeric	0 Minutes	150 Years	All	10	40		50	5	210	mcg/mL
Phenytoin Free	Phenytoin Free Level	Numeric	0 Minutes	150 Years	All	1.2	2.5		2.6	0.5	8	mcg/mL
Phos	Phosphorus Level	Numeric	0 Minutes	14 Days	Male	5.4	10.4	1.5		1	20	mg/dL
Phos	Phosphorus Level	Numeric	14 Days	1 Years	Male	4.5	8.2	1.5		1	20	mg/dL
Phos	Phosphorus Level	Numeric	1 Years	5 Years	Male	4.2	6.7	1.5		1	20	mg/dL
Phos	Phosphorus Level	Numeric	5 Years	13 Years	Male	3.9	5.8	1.5		1	20	mg/dL
Phos	Phosphorus Level	Numeric	13 Years	16 Years	Male	3.3	6.1	1.5		1	20	mg/dL
Phos	Phosphorus Level	Numeric	16 Years	18 Years	Male	3	4.8	1.5		1	20	mg/dL
Phos	Phosphorus Level	Numeric	18 Years	150 Years	Male	2.5	5	1.5		1	20	mg/dL
Phos	Phosphorus Level	Numeric	0 Minutes	14 Days	Female	5.4	10.4	1.5		1	20	mg/dL
Phos	Phosphorus Level	Numeric	14 Days	1 Years	Female	4.5	8.2	1.5		1	20	mg/dL
Phos	Phosphorus Level	Numeric	1 Years	5 Years	Female	4.2	6.7	1.5		1	20	mg/dL
Phos	Phosphorus Level	Numeric	5 Years	13 Years	Female	3.9	5.8	1.5		1	20	mg/dL
Phos	Phosphorus Level	Numeric	13 Years	16 Years	Female	3	5.4	1.5		1	20	mg/dL
Phos	Phosphorus Level	Numeric	16 Years	18 Years	Female	3	4.8	1.5		1	20	mg/dL
Phos	Phosphorus Level	Numeric	18 Years	150 Years	Female	2.5	5	1.5		1	20	mg/dL

Chemistry EHC Reference Ranges 2021												
Assay Display	Assay Description	Instrument/Bench Result Type	Age From	Age To	Sex	Reference Low	Reference High	Critical Low	Critical High	Linear Low	Linear High	Units of Measure
Phos Random	Phosphorus Level Urine Random	Numeric	0 Minutes	150 Years	All					10	400	mg/dL
Potassium Fluid	Potassium Fluid	Numeric	0 Minutes	150 Years	All					2	400	mmol/L
Procalcitonin	Procalcitonin	Numeric	0 Minutes	150 Years	All		0.4			0.2	250	ng/mL
Prostate Health Index	Prostate Health Index	Numeric	0 Minutes	150 Years	All							
Prot, Tot BF	Protein Body Fluid	Numeric	0 Minutes	150 Years	All					3	12	gm/dL
Protein Random	Protein Urine Random	Numeric	0 Minutes	150 Years	All					4	3000	mg/dL
Protein, CSF	Protein Cerebrospinal Fluid	Numeric	0 Minutes	150 Years	All	15	45			4	200	mg/dL
Protein, Tot	Protein Total	Numeric	0 Minutes	14 Days	All	5.2	7.9			3	12	gm/dL
Protein, Tot	Protein Total	Numeric	14 Days	1 Years	All	4.3	6.8			3	12	gm/dL
Protein, Tot	Protein Total	Numeric	1 Years	6 Years	All	5.9	7.2			3	12	gm/dL
Protein, Tot	Protein Total	Numeric	6 Years	9 Years	All	6.2	7.4			3	12	gm/dL
Protein, Tot	Protein Total	Numeric	9 Years	18 Years	All	6.3	7.7			3	12	gm/dL
Protein, Tot	Protein Total	Numeric	18 Years	150 Years	All	6.4	8.9			3	12	gm/dL
PSA	Prostate Specific Antigen	Numeric	0 Minutes	150 Years	All		4			0.01	1300	ng/mL
PSA Free	Prostate Specific Antigen Free	Numeric	0 Minutes	150 Years	All	0.2	4.9			0.1	19	ng/mL
PSA Screen	PSA Screen	Numeric	0 Minutes	150 Years	All		4			0.01	1300	ng/mL
PTH-Intact	Parathormone	Numeric	0 Minutes	1 Years	All	7	58			1	32000	pg/mL
PTH-Intact	Parathormone	Numeric	1 Years	8 Years	All	12	55			1	32000	pg/mL
PTH-Intact	Parathormone	Numeric	8 Years	18 Years	All	12	71			1	32000	pg/mL
PTH-Intact	Parathormone	Numeric	18 Years	150 Years	All	12	88			1	32000	pg/mL
PTN	Phenytoin Level Total	Numeric	0 Minutes	150 Years	All	10	20		30	2.5	120	mcg/mL
RCa:RCr Ratio	Rca:rcr Rt	Numeric	0 Minutes	150 Years	All	0.1	0.2					Ratio
REthanol	Ethanol Urine Random	Numeric	0 Minutes	150 Years	All		10			10	600	mg/dL
RPro/RCr	P/c	Numeric	0 Minutes	150 Years	All							%
Salicylate	Salicylate Level	Numeric	0 Minutes	150 Years	All		6		50	3	800	mg/dL
Sodium Random	Sodium Level Urine Random	Numeric	0 Minutes	150 Years	All					10	800	mmol/L
T3	Triiodothyronine	Numeric	0 Minutes	1 Years	Male	91	257			15	750	ng/dL
T3	Triiodothyronine	Numeric	1 Years	12 Years	Male	119	203			15	750	ng/dL
T3	Triiodothyronine	Numeric	12 Years	16 Years	Male	115	205			15	750	ng/dL
T3	Triiodothyronine	Numeric	16 Years	18 Years	Male	98	192			15	750	ng/dL
T3	Triiodothyronine	Numeric	18 Years	150 Years	Male	87	178			15	750	ng/dL
T3	Triiodothyronine	Numeric	0 Minutes	1 Years	Female	91	257			15	750	ng/dL
T3	Triiodothyronine	Numeric	1 Years	12 Years	Female	119	203			15	750	ng/dL
T3	Triiodothyronine	Numeric	12 Years	16 Years	Female	100	195			15	750	ng/dL
T3	Triiodothyronine	Numeric	16 Years	18 Years	Female	98	192			15	750	ng/dL
T3	Triiodothyronine	Numeric	18 Years	150 Years	Female	87	178			15	750	ng/dL
T4	T4	Numeric	0 Minutes	4 Years	Male	5.9	13.1			1	27	mcg/dL
T4	T4	Numeric	4 Years	14 Years	Male	5.4	10.1			1	27	mcg/dL
T4	T4	Numeric	14 Years	18 Years	Male	5.3	9.2			1	27	mcg/dL
T4	T4	Numeric	18 Years	150 Years	Male	6.1	12.2			1	27	mcg/dL
T4	T4	Numeric	0 Minutes	4 Years	Female	5.9	13.1			1	27	mcg/dL
T4	T4	Numeric	4 Years	14 Years	Female	5.4	10.1			1	27	mcg/dL
T4	T4	Numeric	14 Years	18 Years	Female	5.8	11			1	27	mcg/dL
T4	T4	Numeric	18 Years	150 Years	Female	5	9.8			1	27	mcg/dL
TBIL	Bilirubin Total	Numeric	0 Minutes	14 Days	All	0.3	14.8		17.9	0.1	90	mg/dL
TBIL	Bilirubin Total	Numeric	14 Days	1 Years	All		0.7			0.1	90	mg/dL
TBIL	Bilirubin Total	Numeric	1 Years	9 Years	All		0.4			0.1	90	mg/dL
TBIL	Bilirubin Total	Numeric	9 Years	12 Years	All		0.6			0.1	90	mg/dL
TBIL	Bilirubin Total	Numeric	12 Years	15 Years	All	0.2	0.7			0.1	90	mg/dL
TBIL	Bilirubin Total	Numeric	15 Years	18 Years	All	0.2	0.8			0.1	90	mg/dL
TBIL	Bilirubin Total	Numeric	18 Years	150 Years	All	0.3	1			0.1	90	mg/dL
TBili Body Fluid	Bilirubin Body Fluid	Numeric	0 Minutes	150 Years	All					0.1	90	mg/dL
Thyroglob	Thyroglobulin Level	Numeric	0 Minutes	2 Years	Male	3	56			0.1	9000	ng/mL
Thyroglob	Thyroglobulin Level	Numeric	2 Years	6 Years	Male	6.8	34.2			0.1	9000	ng/mL
Thyroglob	Thyroglobulin Level	Numeric	6 Years	9 Years	Male	5	28.5			0.1	9000	ng/mL
Thyroglob	Thyroglobulin Level	Numeric	9 Years	18 Years	Male	2.5	25.8			0.1	9000	ng/mL
Thyroglob	Thyroglobulin Level	Numeric	18 Years	150 Years	Male	1.6	50			0.1	9000	ng/mL
Thyroglob	Thyroglobulin Level	Numeric	0 Minutes	2 Years	Female	7.8	79.5			0.1	9000	ng/mL
Thyroglob	Thyroglobulin Level	Numeric	2 Years	6 Years	Female	6.8	34.2			0.1	9000	ng/mL
Thyroglob	Thyroglobulin Level	Numeric	6 Years	9 Years	Female	5	28.5			0.1	9000	ng/mL
Thyroglob	Thyroglobulin Level	Numeric	9 Years	18 Years	Female	2.5	25.8			0.1	9000	ng/mL
Thyroglob	Thyroglobulin Level	Numeric	18 Years	150 Years	Female	1.6	50			0.1	9000	ng/mL
Thyroglobulin Antibody	Thyroglobulin Antibody	Numeric	0 Minutes	150 Years	All	0.9	4			0.9	2300	IU/mL
Time	Time	Numeric	0 Minutes	150 Years	All							hr(s)
TOBP	Tobramycin Level Peak	Numeric	0 Minutes	150 Years	All	5	10		15	0.6	30	mcg/mL

Chemistry EHC Reference Ranges 2021												
Assay Display	Assay Description	Instrument/Bench Result Type	Age From	Age To	Sex	Reference Low	Reference High	Critical Low	Critical High	Linear Low	Linear High	Units of Measure
TOBR	Tobramycin Level Random	Numeric	0 Minutes	150 Years	All				15	0.6	30	mcg/mL
TOBT	Tobramycin Level Trough	Numeric	0 Minutes	150 Years	All		1.9		2	0.6	30	mcg/mL
Total Protein	Total Protein	Numeric	0 Minutes	150 Years	All	6.4	8.9			3	12	gm/dL
Trig	Triglyceride	Numeric	0 Minutes	150 Years	All		149			10	5000	mg/dL
Trig BF	Triglyceride Body Fluid	Numeric	0 Minutes	150 Years	All					10	5000	mg/dL
Troponin-I	Troponin-I	Numeric	0 Minutes	150 Years	All		0.04		0.5	0.03	70	ng/mL
TSH	Thyroid Stimulating Hormone	Numeric	0 Minutes	12 Years	All	0.79	5.85			0.01	450	mcIU/mL
TSH	Thyroid Stimulating Hormone	Numeric	12 Years	18 Years	All	0.68	3.35			0.01	450	mcIU/mL
TSH	Thyroid Stimulating Hormone	Numeric	18 Years	150 Years	All	0.45	5.33			0.01	450	mcIU/mL
TSH Reflex Order	TSH Reflex Order	Numeric	0 Minutes	12 Years	All	0.79	5.85			0.01	450	mcIU/mL
TSH Reflex Order	TSH Reflex Order	Numeric	12 Years	18 Years	All	0.68	3.35			0.01	450	mcIU/mL
TSH Reflex Order	TSH Reflex Order	Numeric	18 Years	150 Years	All	0.45	5.33			0.01	450	mcIU/mL
TV	Tv	Numeric	0 Minutes	150 Years	All							mL
TV per 24h	TV per 24h	Calculation	0 Minutes	150 Years	All							
U Alb/TV	Albumin Level Urine 24 Hour	Calculation	0 Minutes	150 Years	All							mg/TV
U Amy/Hr timed	Amylase Urine/Hour	Calculation	0 Minutes	150 Years	All							unit/hr
U Ca/24h	Calcium Level Urine 24 Hour	Calculation	0 Minutes	150 Years	All	100	300					mg/24hr
U CL/24h	Chloride Urine 24 Hour	Calculation	0 Minutes	150 Years	All	110	250					mmol/day
U Clearance	Clearance	Calculation	0 Minutes	150 Years	Male	90	139					mL/min
U Clearance	Clearance	Calculation	0 Minutes	150 Years	Female	80	125					mL/min
U Creat/24h	U Creat/24 Hours	Calculation	0 Minutes	150 Years	Male	800	2000					mg/24hr
U Creat/24h	U Creat/24 Hours	Calculation	0 Minutes	150 Years	Female	600	1800					mg/24hr
U Glu/24h	Glucose Level Urine 24 Hour	Calculation	0 Minutes	150 Years	All		500					mg/24hr
U K/24h	U K/24Hrs	Calculation	0 Minutes	150 Years	All	25	125					mmol/day
U Mag/24h	Ur Magnesium	Calculation	0 Minutes	150 Years	All	24	255					mg/24hr
U Phos/24h	Phosphorus Level Urine 24 Hour	Calculation	0 Minutes	150 Years	All	400	1300					mg/24hr
U Protein/24h	Protein Urine 24 Hour	Calculation	0 Minutes	150 Years	All		150					mg/24hr
U Sodium/24h	Sodium Level Urine 24 Hour	Calculation	0 Minutes	150 Years	All	40	220					mmol/day
U Urea/24h	Urea Nitrogen Level Urine 24 Hour	Calculation	0 Minutes	150 Years	All	12	20					gm/24hr
U Uric/24h	Uric Acid Level Urine 24 Hour	Calculation	0 Minutes	150 Years	All	250	800					mg/24hr
Urea Random	Urea Nitrogen Urine Random	Numeric	0 Minutes	150 Years	All					20	6500	mg/dL
Urea:Cr	U:C	Numeric	0 Minutes	150 Years	All	7	21					
Uric Acid	Uric Acid	Numeric	0 Minutes	14 Days	Male	2.9	12.4			1.5	30	mg/dL
Uric Acid	Uric Acid	Numeric	14 Days	1 Years	Male	1.7	6.3			1.5	30	mg/dL
Uric Acid	Uric Acid	Numeric	1 Years	12 Years	Male	1.9	4.9			1.5	30	mg/dL
Uric Acid	Uric Acid	Numeric	12 Years	18 Years	Male	2.7	7.5			1.5	30	mg/dL
Uric Acid	Uric Acid	Numeric	18 Years	150 Years	Male	2.3	7.6			1.5	30	mg/dL
Uric Acid	Uric Acid	Numeric	0 Minutes	14 Days	Female	2.9	12.4			1.5	30	mg/dL
Uric Acid	Uric Acid	Numeric	14 Days	1 Years	Female	1.7	6.3			1.5	30	mg/dL
Uric Acid	Uric Acid	Numeric	1 Years	12 Years	Female	1.9	4.9			1.5	30	mg/dL
Uric Acid	Uric Acid	Numeric	12 Years	18 Years	Female	2.7	5.8			1.5	30	mg/dL
Uric Acid	Uric Acid	Numeric	18 Years	150 Years	Female	2.3	7.6			1.5	30	mg/dL
Uric Random	Uric Acid Urine Random	Numeric	0 Minutes	150 Years	All					1	300	mg/dL
Valproic Acid	Valproic Acid Level	Numeric	0 Minutes	150 Years	All	50	100		150	10	450	mcg/mL
VANP	Vancomycin Level Peak	Numeric	0 Minutes	150 Years	All	30	40		50	2	150	mcg/mL
VANR	Vancomycin Level Random	Numeric	0 Minutes	150 Years	All				50	2	150	mcg/mL
VANT	Vancomycin Level Trough	Numeric	0 Minutes	150 Years	All	5	20		35	2	150	mcg/mL
Vit-D	25-OH Vitamin D Total	Numeric	0 Minutes	150 Years	All	30				7	120	ng/mL
VLDL	Very Low Density Lipoprotein	Numeric	0 Minutes	150 Years	All		29					mg/dL
Wt kg	Weight	Numeric	0 Minutes	150 Years	All							