



Helix reference range (biochemistry)

Q-CARD

Q-Card No.: MCH-MP2-51-Q-7

Version No.: 1

Status.: Active

Effective Date: 03/11/2025

Author: Nair, Devaki

Owner: Salter, Simon

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The following table lists biochemistry tests done in-house for HSL / TDL sites using the Helix LIMS. This currently applies to the Royal Free, Barnet and Chase Farm, Whittington and UCL Hospitals as well as ENH GPs. Referral assays are not listed. Please note that some ranges only apply to certain sites; this is documented were applicable.

Test	Sex	Age	Range	Units
11-beta-hydroxyandrosterone	Any	0-2 Years	0-49	µg/24hr
11-beta-hydroxyandrosterone	Any	3-4 Years	10-120	µg/24hr
11-beta-hydroxyandrosterone	Male	5-6 Years	50-200	µg/24hr
11-beta-hydroxyandrosterone	Male	7-8 Years	50-200	µg/24hr
11-beta-hydroxyandrosterone	Male	9 Years	50-350	µg/24hr
11-beta-hydroxyandrosterone	Male	10 Years	50-400	µg/24hr
11-beta-hydroxyandrosterone	Male	11-12 Years	200-700	µg/24hr
11-beta-hydroxyandrosterone	Male	13 Years and over	450-780	µg/24hr
11-beta-hydroxyandrosterone	Female	5-6 Years	50-150	µg/24hr
11-beta-hydroxyandrosterone	Female	7-8 Years	50-200	µg/24hr
11-beta-hydroxyandrosterone	Female	9 Years	50-400	µg/24hr
11-beta-hydroxyandrosterone	Female	10 Years	50-400	µg/24hr
11-beta-hydroxyandrosterone	Female	11-12 Years	100-600	µg/24hr
11-beta-hydroxyandrosterone	Female	13 Years and over	130-680	µg/24hr
11-b-hydroxyaetiocholanolone	Any	0-2 Years	0-19	µg/24hr
11-b-hydroxyaetiocholanolone	Any	3-4 Years	10-80	µg/24hr
11-b-hydroxyaetiocholanolone	Any	5-6 Years	50-200	µg/24hr
11-b-hydroxyaetiocholanolone	Any	7-8 Years	50-200	µg/24hr
11-b-hydroxyaetiocholanolone	Any	9 Years	50-200	µg/24hr
11-b-hydroxyaetiocholanolone	Any	10 Years	50-250	µg/24hr
11-b-hydroxyaetiocholanolone	Male	11-12 Years	50-400	µg/24hr
11-b-hydroxyaetiocholanolone	Male	13 Years and over	0-309	µg/24hr
11-b-hydroxyaetiocholanolone	Female	11-12 Years	50-300	µg/24hr
11-b-hydroxyaetiocholanolone	Female	13 Years and over	0-199	µg/24hr
11-oxo-pregnanetriol	Any	7 Months and over	0-99	µg/24hr
16-alpha,18-dihydroxy DHA	Any	Any	70-1270	µg/24hr
16-alpha-hydroxy DHA	Any	0-6 Months	40-870	µg/24hr
16-alpha-hydroxy DHA	Any	7 months -2 Years	0-79	µg/24hr
16-alpha-hydroxy DHA	Any	3-4 Years	0-19	µg/24hr
16-alpha-hydroxy DHA	Any	5-6 Years	10-200	µg/24hr
16-alpha-hydroxy DHA	Male	7-8 Years	0-29	µg/24hr
16-alpha-hydroxy DHA	Male	9 Years	0-29	µg/24hr
16-alpha-hydroxy DHA	Male	10 Years	10-200	µg/24hr
16-alpha-hydroxy DHA	Male	11-12 Years	20-500	µg/24hr
16-alpha-hydroxy DHA	Male	13 Years and over	130-400	µg/24hr
16-alpha-hydroxy DHA	Female	7-8 Years	10-200	µg/24hr
16-alpha-hydroxy DHA	Female	9 Years	10-200	µg/24hr
16-alpha-hydroxy DHA	Female	10 Years	10-200	µg/24hr
16-alpha-hydroxy DHA	Female	11-12 Years	20-500	µg/24hr

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16-alpha-hydroxy DHA	Female	13 Years and over	0-509	µg/24hr
16-alpha-hydroxypregnenolone	Any	0-6 Months	80-1400	µg/24hr
16-beta-hydroxy DHA	Any	Any	20-380	µg/24hr
16-oxoA2 + 15,16-dihydroxy DHA	Any	Any	70-1140	µg/24hr
17-hydroxypregnanolone	Any	7 Months and over	0-99	µg/24hr
17-Hydroxyprogesterone	Any	0-5 Days	0-2.9	nmol/L
17-Hydroxyprogesterone	Any	6 -365 Days	0-3.9	nmol/L
17-Hydroxyprogesterone	Any	1 -16 Years	0-3.9	nmol/L
17-Hydroxyprogesterone	Any	17 Years and over	0-4.9	nmol/L
1-hydroxy-20-beta-cortolone	Any	Any	0-79	µg/24hr
21-hydroxypregnenolone	Any	0-6 Months	10-100	µg/24hr
25-Hydroxy Vitamin D (total)	Any	Any	51-125	nmol/L
5alpha-THF	Any	0-2 Years	20-300	µg/24hr
5alpha-THF	Any	3-4 Years	100-700	µg/24hr
5alpha-THF	Male	5-6 Years	100-800	µg/24hr
5alpha-THF	Male	7-8 Years	100-900	µg/24hr
5alpha-THF	Male	9 Years	150-500	µg/24hr
5alpha-THF	Male	10 Years	200-900	µg/24hr
5alpha-THF	Male	11-12 Years	200-1100	µg/24hr
5alpha-THF	Male	13 Years and over	380-910	µg/24hr
5alpha-THF	Female	5-6 Years	100-700	µg/24hr
5alpha-THF	Female	7-8 Years	100-800	µg/24hr
5alpha-THF	Female	9 Years	100-600	µg/24hr
5alpha-THF	Female	10 Years	200-900	µg/24hr
5alpha-THF	Female	11-12 Years	200-1100	µg/24hr
5alpha-THF	Female	13 Years and over	160-640	µg/24hr
5alpha-THF : THF ratio	Male	13 Years and over	0.42-1.1	
5alpha-THF : THF ratio	Female	13 Years and over	0.17-0.95	
6-alpha-hydroxy THE	Any	Any	10-300	µg/24hr
6-hydroxy-20-alpha-cortolone	Any	Any	0-29	µg/24hr
6-hydroxy-20-beta-cortolone	Any	Any	0-139	µg/24hr
Adjusted Calcium	Any	1 Years and over	2.2-2.6	mmol/L
Adjusted Calcium	Any	1 Years and over	2.2-2.6	mmol/L
Adrenocorticotrophic Hormone	Any	Any	7.2-63.3	ng/L
Aetiocholanolone-5 beta(Aetio)	Any	0-2 Years	0-9	µg/24hr
Aetiocholanolone-5 beta(Aetio)	Any	3-4 Years	0-49	µg/24hr
Aetiocholanolone-5 beta(Aetio)	Male	5-6 Years	10-200	µg/24hr
Aetiocholanolone-5 beta(Aetio)	Male	7-8 Years	10-120	µg/24hr
Aetiocholanolone-5 beta(Aetio)	Male	9 Years	30-300	µg/24hr
Aetiocholanolone-5 beta(Aetio)	Male	10 Years	150-550	µg/24hr
Aetiocholanolone-5 beta(Aetio)	Male	11-12 Years	100-1000	µg/24hr
Aetiocholanolone-5 beta(Aetio)	Male	13 Years and over	620-2030	µg/24hr
Aetiocholanolone-5 beta(Aetio)	Female	5-6 Years	30-100	µg/24hr
Aetiocholanolone-5 beta(Aetio)	Female	7-8 Years	10-120	µg/24hr
Aetiocholanolone-5 beta(Aetio)	Female	9 Years	30-300	µg/24hr

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Aetiocholanolone-5 beta(Aetio)	Female	10 Years	150-400	µg/24hr
Aetiocholanolone-5 beta(Aetio)	Female	11-12 Years	200-500	µg/24hr
Aetiocholanolone-5 beta(Aetio)	Female	13 Years and over	270-1390	µg/24hr
Alanine Aminotransferase	Male	0-11 Months	7-36	U/L
Alanine Aminotransferase	Female	0-11 Months	7-36	U/L
Alanine Aminotransferase	Male	1-12 Years	12-28	U/L
Alanine Aminotransferase	Female	1-12 Years	12-28	U/L
Alanine Aminotransferase	Male	13-15 Years	12-27	U/L
Alanine Aminotransferase	Female	13-15 Years	10-25	U/L
Alanine Aminotransferase	Male	16-18 Years	12-27	U/L
Alanine Aminotransferase	Female	16-18 Years	10-25	U/L
Alanine Aminotransferase	Male	19 Years and over	10-50	U/L
Alanine Aminotransferase	Female	19 Years and over	10-35	U/L
Alanine Aminotransferase	Unknown	0-15 Years	7-36	U/L
Alanine Aminotransferase	Unknown	16-18 Years	7-36	U/L
Alanine Aminotransferase	Unknown	19 Years and over	10-50	U/L
Albumin	Any	0-365 Days	30-45	g/L
Albumin	Any	1-16 Years	30-50	g/L
Albumin	Any	17 Years and over	35-50	g/L
Alkaline Phosphatase	Any	0-14 Days	83-248	U/L
Alkaline Phosphatase	Any	15 days -11 Months	122-469	U/L
Alkaline Phosphatase	Any	1-9 Years	142-335	U/L
Alkaline Phosphatase	Any	10-12 Years	129-417	U/L
Alkaline Phosphatase	Male	13-14 Years	116-468	U/L
Alkaline Phosphatase	Female	13-14 Years	57-254	U/L
Alkaline Phosphatase	Unknown	13-14 Years	57-468	U/L
Alkaline Phosphatase	Male	15-16 Years	82-331	U/L
Alkaline Phosphatase	Female	15-16 Years	50-117	U/L
Alkaline Phosphatase	Unknown	15-16 Years	50-331	U/L
Alkaline Phosphatase	Male	17-18 Years	55-149	U/L
Alkaline Phosphatase	Female	17-18 Years	45-87	U/L
Alkaline Phosphatase	Unknown	17-18 Years	45-149	U/L
Alkaline Phosphatase	Any	19 Years and over	30-130	U/L
Alpha cortolone	Any	0-6 Months	0-179	µg/24hr
Alpha cortolone	Any	7 months -2 Years	0-49	µg/24hr
Alpha cortolone	Any	3-4 Years	50-250	µg/24hr
Alpha cortolone	Any	5-6 Years	50-250	µg/24hr
Alpha cortolone	Any	7-8 Years	50-300	µg/24hr
Alpha cortolone	Male	9 Years	50-600	µg/24hr
Alpha cortolone	Male	10 Years	50-700	µg/24hr
Alpha cortolone	Male	11-12 Years	200-800	µg/24hr
Alpha cortolone	Male	13 Years and over	220-1100	µg/24hr
Alpha cortolone	Female	9 Years	50-400	µg/24hr
Alpha cortolone	Female	10 Years	50-700	µg/24hr
Alpha cortolone	Female	11-12 Years	200-900	µg/24hr

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Alpha cortolone	Female	13 Years and over	310-1330	µg/24hr
Alpha-1 Antitrypsin	Any	Any	0.90-2.00	g/L
Alpha-1-Globulins (non-reportable)	Any	Any	>1.6	g/L
Alpha-cortol	Any	0-2 Years	0-19	µg/24hr
Alpha-cortol	Any	3-4 Years	0-49	µg/24hr
Alpha-cortol	Male	5-6 Years	10-50	µg/24hr
Alpha-cortol	Male	7-8 Years	10-50	µg/24hr
Alpha-cortol	Male	9 Years	10-100	µg/24hr
Alpha-cortol	Male	10 Years	50-200	µg/24hr
Alpha-cortol	Male	11-12 Years	20-200	µg/24hr
Alpha-cortol	Male	13 Years and over	100-450	µg/24hr
Alpha-cortol	Female	5-6 Years	0-49	µg/24hr
Alpha-cortol	Female	7-8 Years	0-49	µg/24hr
Alpha-cortol	Female	9 Years	10-160	µg/24hr
Alpha-cortol	Female	10 Years	50-250	µg/24hr
Alpha-cortol	Female	11-13 Years	20-200	µg/24hr
Alpha-cortol	Female	13 Years and over	130-350	µg/24hr
Alpha-fetoprotein	Any	0-28 Days	>1000	kIU/L
Alpha-fetoprotein	Any	29 days -5 Months	>39	kIU/L
Alpha-fetoprotein	Any	6-11 Months	3-57	kIU/L
Alpha-fetoprotein	Any	1 Year and over	<6	kIU/L
Ammonia	Any	0-28 Days	0-99	µmol/L
Ammonia	Any	29 days -16 Years	0-39	µmol/L
Ammonia	Male	17 Years and over	16-60	µmol/L
Ammonia	Female	17 Years and over	11-51	µmol/L
Ammonia	Unknown	17 Years and over	11-60	µmol/L
Amylase	Male	0-14 Days	3-11	U/L
Amylase	Female	0-14 Days	3-11	U/L
Amylase	Male	15 days -12 Weeks	0-26	U/L
Amylase	Female	15 days -12 Weeks	0-26	U/L
Amylase	Male	13 weeks -11 Months	3-58	U/L
Amylase	Female	13 weeks -11 Months	3-58	U/L
Amylase	Unknown	13 weeks -11 Months	0-58	U/L
Amylase	Any	1-18 Years	29-118	U/L
Amylase	Any	19 Years and over	28-100	U/L
Andro:Aetio ratio	Male	13 Years and over	0.67-2.2	
Andro:Aetio ratio	Female	13 Years and over	0.42-1.08	
Androstenedione	Any	Any	0-10.4	nmol/L
Androstenetriol (A3)	Any	0-6 Months	30-500	µg/24hr
Androstenetriol (A3)	Any	7 months -2 Years	0-79	µg/24hr
Androstenetriol (A3)	Any	3-4 Years	0-69	µg/24hr
Androstenetriol (A3)	Any	5-6 Years	0-49	µg/24hr

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Androstenetriol (A3)	Any	7-8 Years	0-49	µg/24hr
Androstenetriol (A3)	Any	9 Years	0-49	µg/24hr
Androstenetriol (A3)	Any	10 Years	0-49	µg/24hr
Androstenetriol (A3)	Male	11-12 Years	20-250	µg/24hr
Androstenetriol (A3)	Male	13 Years and over	290-600	µg/24hr
Androstenetriol (A3)	Female	11-12 Years	20-200	µg/24hr
Androstenetriol (A3)	Female	13 Years and over	100-350	µg/24hr
Androsterone-5 alpha (Andro)	Any	0-2 Years	0-9	µg/24hr
Androsterone-5 alpha (Andro)	Any	3-4 Years	0-49	µg/24hr
Androsterone-5 alpha (Andro)	Male	5-6 Years	20-150	µg/24hr
Androsterone-5 alpha (Andro)	Male	7-8 Years	10-100	µg/24hr
Androsterone-5 alpha (Andro)	Male	9 Years	30-400	µg/24hr
Androsterone-5 alpha (Andro)	Male	10 Years	100-600	µg/24hr
Androsterone-5 alpha (Andro)	Male	11-12 Years	100-1250	µg/24hr
Androsterone-5 alpha (Andro)	Male	13 Years and over	1040-1620	µg/24hr
Androsterone-5 alpha (Andro)	Female	5-6 Years	30-100	µg/24hr
Androsterone-5 alpha (Andro)	Female	7-8 Years	10-150	µg/24hr
Androsterone-5 alpha (Andro)	Female	9 Years	30-300	µg/24hr
Androsterone-5 alpha (Andro)	Female	10 Years	100-400	µg/24hr
Androsterone-5 alpha (Andro)	Female	11-12 Years	200-700	µg/24hr
Androsterone-5 alpha (Andro)	Female	13 Years and over	260-1270	µg/24hr
Angiotensin Converting Enzyme	Any	0-17 Years	33-112	U/L
Angiotensin Converting Enzyme	Any	18 Years and over	20-70	U/L
Angiotensin Converting Enzyme (CSF)	Any	Any	<1.20	U/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Female	0-28 Days	0-6.7	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Male	0-2 Days	78.1-606.5	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Male	3-7 Days	159.6-1186.2	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Male	8-10 Days	225.5-1391.7	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Male	11-20 Days	161.7-1310.5	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Male	21-28 Days	245-1102.4	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Female	29 days -11 Months	0-31.2	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Male	29 days -11 Months	235.5-1125.9	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Female	1-4 Years	1.3-43.7	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Male	1-4 Years	310.7-1425.3	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Female	5-7 Years	1.4-39.5	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Male	5-7 Years	238.3-1108.3	pmol/L

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Anti-Mullerian Hormone (not applicable to RFH and BCF)	Female	8-11 Years	2.9-52.8	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Male	8-11 Years	96.6-1131.4	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Female	12-14 Years	3-46.6	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Male	12-14 Years	9.4-331.8	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Female	15-18 Years	2.1-84.1	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Male	15-18 Years	16.8-130	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Male	19 Years and over	6-103	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Female	19-24 Years	8.7-83.6	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Female	25-29 Years	6.4-70.3	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Female	30-34 Years	4.1-58	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Female	35-39 Years	1.1-53.5	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Female	40-44 Years	0.2-39.1	pmol/L
Anti-Mullerian Hormone (not applicable to RFH and BCF)	Female	45-50 Years	0.1-19.3	pmol/L
Apolipoprotein A1	Any	4-14 Years	1.11-1.9	g/L
Apolipoprotein A1	Male	15-19 Years	1.04-1.67	g/L
Apolipoprotein A1	Female	15-19 Years	1.11-1.94	g/L
Apolipoprotein A1	Unknown	15-19 Years	1.04-1.94	g/L
Apolipoprotein A1	Male	20 Years and over	1.1-2.05	g/L
Apolipoprotein A1	Female	20 Years and over	1.25-2.15	g/L
Apolipoprotein A1	Unknown	20 Years and over	1.1-2.15	g/L
Apolipoprotein B100	Any	4-19 Years	0.45-1.08	g/L
Apolipoprotein B100	Male	20 Years and over	0.55-1.4	g/L
Apolipoprotein B100	Female	20 Years and over	0.55-1.25	g/L
Apolipoprotein B100	Unknown	4 Years and over	0.55-1.4	g/L
Aspartate Aminotransferase	Any	0-14 Days	40-175	U/L
Aspartate Aminotransferase	Male	15 days -11 Months	28-77	U/L
Aspartate Aminotransferase	Female	15 days -11 Months	28-77	U/L
Aspartate Aminotransferase	Male	1-6 Years	29-53	U/L
Aspartate Aminotransferase	Female	1-6 Years	29-53	U/L
Aspartate Aminotransferase	Male	7-11 Years	26-45	U/L
Aspartate Aminotransferase	Female	7-11 Years	26-45	U/L
Aspartate Aminotransferase	Male	12-15 Years	22-44	U/L
Aspartate Aminotransferase	Female	12-15 Years	21-34	U/L
Aspartate Aminotransferase	Male	16-18 Years	22-44	U/L
Aspartate Aminotransferase	Female	16-18 Years	21-34	U/L
Aspartate Aminotransferase	Unknown	0-15 Years	21-77	U/L

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Aspartate Aminotransferase	Unknown	16-18 Years	21-77	U/L
Aspartate Aminotransferase	Female	19 Years and over	10-35	U/L
Aspartate Aminotransferase	Male	19 Years and over	10-50	U/L
Aspartate Aminotransferase	Unknown	19 Years and over	10-50	U/L
Beta cortolone	Any	Any	0-69	µg/24hr
Beta cortolone + beta cortol	Any	0-2 Years	0-49	µg/24hr
Beta cortolone + beta cortol	Any	3-4 Years	50-250	µg/24hr
Beta cortolone + beta cortol	Male	5-6 Years	25-250	µg/24hr
Beta cortolone + beta cortol	Male	7-8 Years	50-250	µg/24hr
Beta cortolone + beta cortol	Male	9 Years	50-450	µg/24hr
Beta cortolone + beta cortol	Male	10 Years	50-500	µg/24hr
Beta cortolone + beta cortol	Male	11-12 Years	100-600	µg/24hr
Beta cortolone + beta cortol	Male	13 Years and over	410-1370	µg/24hr
Beta cortolone + beta cortol	Female	5-6 Years	50-250	µg/24hr
Beta cortolone + beta cortol	Female	7-8 Years	50-250	µg/24hr
Beta cortolone + beta cortol	Female	9 Years	50-600	µg/24hr
Beta cortolone + beta cortol	Female	10 Years	50-500	µg/24hr
Beta cortolone + beta cortol	Female	11-12 Years	100-500	µg/24hr
Beta cortolone + beta cortol	Female	13 Years and over	350-1110	µg/24hr
Beta-2-Microglobulin	Any	0-60 Years	0.8 - 2.4	mg/L
Beta-2-Microglobulin	Any	61 Years and over	0 - 3	mg/L
Bicarbonate	Any	Any	22-29	mmol/L
Bile Acids	Any	Any	0-10	µmol/L
Bile Acids	Any	Any	0-10	µmol/L
Biliary ALP	Any	0-14 Days	0-11	U/L
Biliary ALP	Any	15 -11 Months	0-22	U/L
Biliary ALP	Any	1-9 Years	0-16	U/L
Biliary ALP	Any	10-12 Years	0-19	U/L
Biliary ALP	Male	13-14 Years	0-22	U/L
Biliary ALP	Female	13-14 Years	0-12	U/L
Biliary ALP	Unknown	13-14 Years	0-22	U/L
Biliary ALP	Male	15-16 Years	0-15	U/L
Biliary ALP	Female	15-16 Years	0-5	U/L
Biliary ALP	Unknown	15-16 Years	0-15	U/L
Biliary ALP	Male	17-18 Years	0-7	U/L
Biliary ALP	Female	17-18 Years	0-4	U/L
Biliary ALP	Unknown	17-18 Years	0-7	U/L
Biliary ALP	Male	19 Years and over	0-9	U/L
Biliary ALP	Female	19 Years and over	0-13	U/L
Biliary ALP	Unknown	19 Years and over	0-13	U/L
Bilirubin (Conjugated - WAKO) (Whittington only)	Any	Any	0-7	µmol/L
Bilirubin (Conjugated) (does not apply to Whittington)	Any	0-1 Weeks	4-9	µmol/L
Bilirubin (Conjugated) (does not apply to Whittington)	Any	2 -3 Weeks	0-3	µmol/L

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Bilirubin (Conjugated) (does not apply to Whittington)	Any	4 weeks -11 Months	0-4	µmol/L
Bilirubin (Conjugated) (does not apply to Whittington)	Any	1-8 Years	0-2	µmol/L
Bilirubin (Conjugated) (does not apply to Whittington)	Any	9-12 Years	0-4	µmol/L
Bilirubin (Conjugated) (does not apply to Whittington)	Any	13-18 Years	1-5	µmol/L
Bilirubin (Conjugated) (does not apply to Whittington)	Any	19 Years and over	0-9	µmol/L
Blood Lactate	Any	Any	0.5-2.2	mmol/L
Bone ALP	Any	0-14 Days	0-224	U/L
Bone ALP	Any	15 days -11 Months	0-423	U/L
Bone ALP	Any	1-9 Years	0-302	U/L
Bone ALP	Any	10-12 Years	0-376	U/L
Bone ALP	Male	13-14 Years	0-422	U/L
Bone ALP	Female	13-14 Years	0-229	U/L
Bone ALP	Unknown	13-14 Years	0-422	U/L
Bone ALP	Male	15-16 Years	0-299	U/L
Bone ALP	Female	15-16 Years	0-106	U/L
Bone ALP	Unknown	15-16 Years	0-299	U/L
Bone ALP	Male	17-18 Years	0-134	U/L
Bone ALP	Female	17-18 Years	0-79	U/L
Bone ALP	Unknown	17-18 Years	0-134	U/L
Bone ALP	Male	19 Years and over	0-78	U/L
Bone ALP	Female	19 Years and over	0-72	U/L
Bone ALP	Unknown	19 Years and over	0-78	U/L
CA 125	Female	Any	0-35	u/mL
CA 15-3	Female	Any	0-26	u/mL
CA 19-9	Any	Any	0-27	u/mL
Calcitonin (Not applicable to RFH and BCF)	Female	Any	<6.4	ng/L
Calcitonin (Not applicable to RFH and BCF)	Male	Any	<9.5	ng/L
Calcium (total)	Any	0 - 11 months	2.00-2.70	mmol/L
Calcium (total)	Any	1 - 16 years	2.20-2.70	mmol/L
Carbamazepine	Any	Any	4-12	mg/L
Carcinoembryonic Antigen	Any	Any	0-5.2	µg/L
Cardiac Troponin T	Any	Any	0-13	ng/L
Ceruloplasmin	Male	Any	0.15-0.3	g/L
Ceruloplasmin	Female	Any	0.16-0.45	g/L
Ceruloplasmin	Unknown	Any	0.15-0.45	g/L
Chloride	Any	Any	95-108	mmol/L
Cholesterol	Female	0-14 Days	1.3-3.2	mmol/L
Cholesterol	Male	0-14 Days	1.2-2.8	mmol/L
Cholesterol	Any	15 days -11 Months	1.7-6.1	mmol/L
Cholesterol	Any	1-18 Years	2.9-5.4	mmol/L

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Cholesterol	Any	19 Years and over	0.0-4.9	mmol/L
Cholesterol:HDL ratio	Any	Any	0 - 3.9	
Chromium	Any	Any	0-14	nmol/L
Chromogranin A (RFH and BCF only)	Any	Any	0-26	U/L
Cobalt	Any	Any	0-9	nmol/L
Complement C3	Any	Any	0.90 - 1.80	g/L
Complement C4	Any	Any	0.10 - 0.40	g/L
Copper	Any	0-3 Months	1.4-7.2	µmol/L
Copper	Any	4-5 Months	3.9-17.3	µmol/L
Copper	Any	0-8 Years	11.1-27.4	µmol/L
Copper	Any	9-12 Years	11.2-23.7	µmol/L
Copper	Any	13-18 Years	9.1-22.5	µmol/L
Copper	Any	19 Years and over	7.9-25.1	µmol/L
Cortisol	Any	0-28 Days	15-396	nmol/L
Cortisol	Any	29 days -11 Months	18-552	nmol/L
Cortisol	Any	1-11 Years	66-410	nmol/L
Cortisol	Any	12-18 Years	100-480	nmol/L
Cortisol (9am)	Any	0 Months	15 - 396	nmol/L
Cortisol (9am)	Any	1-11 Months	18 - 552	nmol/L
Cortisol (9am)	Any	1-11 Years	66 - 410	nmol/L
Cortisol (9am)	Any	12-18 Years	100 - 480	nmol/L
Cortisol (9am)	Any	19 Years and over	133 - 537	nmol/L
C-Reactive Protein	Any	0-15 Years	0-4.9	mg/L
C-Reactive Protein	Any	16 Years and over	0-4.9	mg/L
C-Reactive Protein (Low Level)	Any	0-14 Days	0.6-6.1	mg/L
C-Reactive Protein (Low Level)	Any	15 days -14 Years	0.4-1.3	mg/L
C-Reactive Protein (Low Level)	Any	15-18 Years	0.4-2	mg/L
C-Reactive Protein (Low Level)	Any	19 Years and over	<5.0	mg/L
Creatine Kinase	Female	0-15 Years	26-192	U/L
Creatine Kinase	Male	0-15 Years	39-308	U/L
Creatine Kinase	Unknown	0-15 Years	26-308	U/L
Creatine Kinase	Female	16 Years and over	26-192	U/L
Creatine Kinase	Male	16 Years and over	39-308	U/L
Creatine Kinase	Any	16 Years and over	26-308	U/L
Creatine Kinase-MB	Any	Any	0-24	U/L
Creatinine	Any	0-1 Months	22-77	µmol/L
Creatinine	Any	2-11 Months	14-34	µmol/L
Creatinine	Any	1-2 Years	15-31	µmol/L
Creatinine	Any	3-4 Years	23-37	µmol/L
Creatinine	Any	5-6 Years	25-42	µmol/L
Creatinine	Any	7-8 Years	30-47	µmol/L
Creatinine	Any	9-10 Years	29-56	µmol/L
Creatinine	Any	11-12 Years	39-60	µmol/L
Creatinine	Any	13 Years	40-68	µmol/L
Creatinine	Any	14 Years	40-68	µmol/L

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Creatinine	Male	15 Years	59-104	μmol/L
Creatinine	Female	15 Years	45-84	μmol/L
Creatinine	Unknown	15 Years	45-104	μmol/L
Creatinine	Male	16 Years and over	59-104	μmol/L
Creatinine	Female	16 Years and over	45-84	μmol/L
Creatinine	Unknown	16 Years and over	45-104	μmol/L
Creatinine Clearance	Any	Any	66-143	mL/min
CSF ACE	Any	Any	0-1.2	U/L
CSF Albumin	Any	Any	90-360	g/L
CSF Alpha-Fetoprotein	Any	0-31 Days	2-889	klU/L
CSF Alpha-Fetoprotein	Any	32 -110 Days	0.1-12.5	klU/L
CSF Alpha-Fetoprotein	Any	111 days and over	0-2	klU/L
CSF Glucose	Any	0-17 Years	3.3-4.4	mmol/L
CSF Glucose	Any	18 Years and over	2.2-3.9	mmol/L
CSF Human Chorionic Gonadotrophin	Any	0-17 Years	0-0.7	U/L
CSF Human Chorionic Gonadotrophin	Any	18 Years and over	0-3	U/L
CSF Lactate	Any	0-2 Days	1.1-6.7	mmol/L
CSF Lactate	Any	3-10 Days	1.1-4.4	mmol/L
CSF Lactate	Male	11 days -16 Years	0.9-2.2	mmol/L
CSF Lactate	Female	11 days -16 Years	0.6-2.1	mmol/L
CSF Lactate	Male	17 Years and over	1.01-2.09	mmol/L
CSF Lactate	Female	17 Years and over	1.01-2.09	mmol/L
CSF Lactate Dehydrogenase:	Any	Any	<57	U/L
CSF Protein	Any	Any	0.15-0.45	g/L
CSF Random Glucose	Any	Any	2.2-4.2	mmol/L
CSF Total Protein	Any	Any	0.13-0.45	g/L
Cyclosporin	Any	Any	100-300	μg/L
Dehydroepiandrosterone (DHA)	Any	0-2 Years	0-9	μg/24hr
Dehydroepiandrosterone (DHA)	Any	3-4 Years	0-19	μg/24hr
Dehydroepiandrosterone (DHA)	Male	5-6 Years	0-99	μg/24hr
Dehydroepiandrosterone (DHA)	Male	7-8 Years	0-99	μg/24hr
Dehydroepiandrosterone (DHA)	Male	9 Years	0-99	μg/24hr
Dehydroepiandrosterone (DHA)	Male	10 Years	0-199	μg/24hr
Dehydroepiandrosterone (DHA)	Male	11-12 Years	10-500	μg/24hr
Dehydroepiandrosterone (DHA)	Male	13 Years and over	0-1109	μg/24hr
Dehydroepiandrosterone (DHA)	Female	5-6 Years	0-49	μg/24hr
Dehydroepiandrosterone (DHA)	Female	7-8 Years	0-99	μg/24hr
Dehydroepiandrosterone (DHA)	Female	9 Years	0-99	μg/24hr
Dehydroepiandrosterone (DHA)	Female	10 Years	0-199	μg/24hr
Dehydroepiandrosterone (DHA)	Female	11-12 Years	10-400	μg/24hr
Dehydroepiandrosterone (DHA)	Female	13 Years and over	0-969	μg/24hr
Dehydroepiandrosterone Sulphate	Any	0-6 Days	2.93-16.5	μmol/L
Dehydroepiandrosterone Sulphate	Any	1-4 Weeks	0.86-11.7	μmol/L
Dehydroepiandrosterone Sulphate	Any	1-11 Months	0.09-3.35	μmol/L
Dehydroepiandrosterone Sulphate	Any	1-4 Years	0.01-0.53	μmol/L

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Dehydroepiandrosterone Sulphate	Any	5-9 Years	0.08-2.31	μmol/L
Dehydroepiandrosterone Sulphate	Female	10-14 Years	0.92-7.6	μmol/L
Dehydroepiandrosterone Sulphate	Female	15-19 Years	1.77-9.99	μmol/L
Dehydroepiandrosterone Sulphate	Female	20-24 Years	4.02-11	μmol/L
Dehydroepiandrosterone Sulphate	Female	25-34 Years	2.68-9.23	μmol/L
Dehydroepiandrosterone Sulphate	Female	35-44 Years	1.65-9.15	μmol/L
Dehydroepiandrosterone Sulphate	Female	45-54 Years	0.96-6.95	μmol/L
Dehydroepiandrosterone Sulphate	Female	55-64 Years	0.51-5.56	μmol/L
Dehydroepiandrosterone Sulphate	Female	65-74 Years	0.26-6.68	μmol/L
Dehydroepiandrosterone Sulphate	Female	75 Years and over	0.33-4.18	μmol/L
Dehydroepiandrosterone Sulphate	Male	10-14 Years	0.66-6.7	μmol/L
Dehydroepiandrosterone Sulphate	Male	15-19 Years	1.91-13.4	μmol/L
Dehydroepiandrosterone Sulphate	Male	20-24 Years	5.73-13.4	μmol/L
Dehydroepiandrosterone Sulphate	Male	25-34 Years	4.34-12.2	μmol/L
Dehydroepiandrosterone Sulphate	Male	35-44 Years	2.41-11.6	μmol/L
Dehydroepiandrosterone Sulphate	Male	45-54 Years	1.2-8.98	μmol/L
Dehydroepiandrosterone Sulphate	Male	55-64 Years	1.4-8.01	μmol/L
Dehydroepiandrosterone Sulphate	Male	65-74 Years	0.91-6.76	μmol/L
Dehydroepiandrosterone Sulphate	Male	75 Years and over	0.44-3.34	μmol/L
Digoxin	Any	Any	0.5-1	μg/L
Enhanced Liver Fibrosis (ELF)	Any	Any	0-9.7	
Erythropoietin Level	Any	Any	3.5-26.6	IU/L
Estimated Bioactive Prolactin	Male	Any	63-245	mIU/L
Estimated Bioactive Prolactin	Female	Any	75-381	mIU/L
Faecal Calprotectin	Any	Any	0-99	μg/g
Faecal Immunochemical Test	Any	Any	0-9	μg/g
Ferritin	Any	0-30 Days	150-973	μg/L
Ferritin	Any	31 days -5 Months	8.46-580	μg/L
Ferritin	Male	6 months -14 Years	14-101	μg/L
Ferritin	Female	6 months -14 Years	14-101	μg/L
Ferritin	Male	15-18 Years	20.9-173	μg/L
Ferritin	Female	15-18 Years	3.88-114	μg/L
Ferritin	Any	0-18 Years	3.88-173	μg/L
Ferritin	Male	19 Years and over	30-400	μg/L
Ferritin	Female	19 Years and over	13-150	μg/L
Ferritin	Any	19 Years and over	13-400	μg/L
Follicle Stimulating Hormone	Male	0-11 Months	0.1-3.2	U/L
Follicle Stimulating Hormone	Female	0-11 Months	1.6-19	U/L
Follicle Stimulating Hormone	Male	1-8 Years	0.2-2.1	U/L
Follicle Stimulating Hormone	Female	1-8 Years	0.7-5.8	U/L
Follicle Stimulating Hormone	Male	9 Years	0.4-4.2	U/L
Follicle Stimulating Hormone	Female	9 Years	0.5-7.6	U/L
Follicle Stimulating Hormone	Male	10 Years and over	1.5-12.4	U/L
Follicle Stimulating Hormone	Female	10 Years and over	See comment	U/L

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Free Androgen Index	Female	19 Years and over	<5	%
Free Kappa Light Chains	Any	Any	3.3-19.4	mg/L
Free Kappa:Lambda Ratio	Any	Any	0.26-1.65	
Free Lambda Light Chains	Any	Any	5.7-26.3	mg/L
Free T3	Any	0-6 Days	2.65-9.68	pmol/L
Free T3	Any	7 days -3 Months	3.00-9.28	pmol/L
Free T3	Any	4-11 Months	3.30-8.95	pmol/L
Free T3	Any	1-6 Years	3.69-8.46	pmol/L
Free T3	Any	7-11 Years	3.88-8.02	pmol/L
Free T3	Any	12-20 Years	3.93-7.70	pmol/L
Free T3	Any	21 Years and over	3.10-6.80	pmol/L
Free T4	Any	0-6 Days	11.0-32.0	pmol/L
Free T4	Any	7 days -3 Months	11.5-28.3	pmol/L
Free T4	Any	4-11 Months	11.9-25.6	pmol/L
Free T4	Any	1-6 Years	12.3-22.8	pmol/L
Free T4	Any	7-11 Years	12.5-21.5	pmol/L
Free T4	Any	12-20 Years	12.6-21.0	pmol/L
Free T4	Any	21 Years and over	11.9-21.6	pmol/L
Free Testosterone	Male	18 Years and over	0-0.224	nmol/L
Fructosamine	Any	Any	205-285	μmol/L
Gamma-Glutamyl Transferase	Any	0-14 Days	17-175	U/L
Gamma-Glutamyl Transferase	Any	15 days-11 Months	5-101	U/L
Gamma-Glutamyl Transferase	Any	1-10 Years	4-12	U/L
Gamma-Glutamyl Transferase	Any	11-18 Years	4-16	U/L
Gamma-Glutamyl Transferase	Male	19 Years and over	10-71	U/L
Gamma-Glutamyl Transferase	Female	19 Years and over	6-42	U/L
Gamma-Glutamyl Transferase	Unknown	19 Years and over	6-71	U/L
Glucose (fasting)	Any	0-15 Years	3.3-6.0	mmol/L
Glucose (fasting)	Any	16 Years and over	3.3-6.0	mmol/L
Glucose (random)	Any	0-15 Years	3.3-7.7	mmol/L
Glucose (random)	Any	16 Years and over	3.3-7.7	mmol/L
Haemoglobin A1c (mmol/mol)	Any	Any	20-41	mmol/mol
HDL Cholesterol	Any	Any	0.5-3.5	mmol/L
Homocysteine (Not UCH)	Male	Any	5.5-16.2	μmol/L
Homocysteine (Not UCH)	Female	Any	4.4-13.6	μmol/L
Homocysteine (Not UCH)	Unknown	Any	4.4-16.2	μmol/L
Homocysteine (UCH only)	Any	Any	5-12	μmol/L
Human Chorionic Gonadotrophin	Male	Any	0-2	U/L
Immunoglobulin A	Any	0-12 Months	0 - 0.1	g/L
Immunoglobulin A	Any	1-3 Years	0 - 0.7	g/L
Immunoglobulin A	Any	3-6 Years	0.1 - 1.4	g/L
Immunoglobulin A	Any	6-14 Years	0.3 - 2.2	g/L
Immunoglobulin A	Any	14-19 Years	0.4 - 2.9	g/L
Immunoglobulin A	Any	19 Years and over	0.7 - 4	g/L
Immunoglobulin E	Any	Any	0 - 100	klU/L

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Immunoglobulin G	Any	0-14 Days	3.2-12	g/L
Immunoglobulin G	Any	15-364 Days	1.5-6.3	g/L
Immunoglobulin G	Any	1-3 Years	3.2-9.9	g/L
Immunoglobulin G	Any	4-9 Years	5-11.7	g/L
Immunoglobulin G	Any	10-18 Years	6-13.1	g/L
Immunoglobulin G	Any	19 Years and over	7-16	g/L
Immunoglobulin G subclass 1	Any	0-1 Years	1.94 - 8.42	g/L
Immunoglobulin G subclass 1	Any	2-3 Years	3.15 - 9.45	g/L
Immunoglobulin G subclass 1	Any	4-5 Years	3.06 - 9.45	g/L
Immunoglobulin G subclass 1	Any	6-7 Years	2.88 - 9.18	g/L
Immunoglobulin G subclass 1	Any	8-9 Years	4.32 - 10.2	g/L
Immunoglobulin G subclass 1	Any	10-11 Years	4.23 - 10.6	g/L
Immunoglobulin G subclass 1	Any	12-13 Years	3.42 - 11.5	g/L
Immunoglobulin G subclass 1	Any	14-17 Years	3.15 - 8.55	g/L
Immunoglobulin G subclass 1	Any	18 Years and over	3.82 - 9.29	g/L
Immunoglobulin G Subclass 2	Any	0-1 Years	0.23 - 3.00	g/L
Immunoglobulin G Subclass 2	Any	2-3 Years	0.36 - 2.25	g/L
Immunoglobulin G Subclass 2	Any	4-5 Years	0.61 - 3.45	g/L
Immunoglobulin G Subclass 2	Any	6-7 Years	0.44 - 3.75	g/L
Immunoglobulin G Subclass 2	Any	8-9 Years	0.72 - 4.3	g/L
Immunoglobulin G Subclass 2	Any	10-11 Years	0.76 - 3.55	g/L
Immunoglobulin G Subclass 2	Any	12-13 Years	1.00 - 4.55	g/L
Immunoglobulin G Subclass 2	Any	14-17 Years	0.64 - 4.95	g/L
Immunoglobulin G Subclass 2	Any	18 Years and over	2.42 - 7.00	g/L
Immunoglobulin G subclass 3	Any	0-1 Years	0.19 - 0.85	g/L
Immunoglobulin G subclass 3	Any	2-3 Years	0.17 - 0.68	g/L
Immunoglobulin G subclass 3	Any	4-5 Years	0.10 - 1.22	g/L
Immunoglobulin G subclass 3	Any	6-7 Years	0.16 - 0.85	g/L
Immunoglobulin G subclass 3	Any	8-9 Years	0.13 - 0.85	g/L
Immunoglobulin G subclass 3	Any	10-11 Years	0.17 - 1.73	g/L
Immunoglobulin G subclass 3	Any	12-13 Years	0.28 - 1.25	g/L
Immunoglobulin G subclass 3	Any	14-17 Years	0.23 - 1.96	g/L
Immunoglobulin G subclass 3	Any	18 Years and over	0.22 - 1.76	g/L
Immunoglobulin G subclass 4	Any	0-1 Years	0.00 - 0.78	g/L
Immunoglobulin G subclass 4	Any	2-3 Years	0.01 - 0.53	g/L
Immunoglobulin G subclass 4	Any	4-5 Years	0.02 - 1.13	g/L
Immunoglobulin G subclass 4	Any	6-7 Years	0.00 - 0.99	g/L
Immunoglobulin G subclass 4	Any	8-9 Years	0.02 - 0.93	g/L
Immunoglobulin G subclass 4	Any	10-11 Years	0.02 - 1.15	g/L
Immunoglobulin G subclass 4	Any	12-13 Years	0.04 - 1.36	g/L
Immunoglobulin G subclass 4	Any	14-17 Years	0.11 - 1.57	g/L
Immunoglobulin G subclass 4	Any	18 Years and over	0.04 - 0.86	g/L
Immunoglobulin M	Any	0-14 Days	0-0.4	g/L
Immunoglobulin M	Any	2-12 Weeks	0.1-0.7	g/L
Immunoglobulin M	Any	13-51 Weeks	0.1-0.8	g/L

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Immunoglobulin M	Any	1-18 Years	0.4-1.8	g/L
Immunoglobulin M	Any	19 Years and over	0.4-2.3	g/L
Insulin-Like Growth Factor 1	Female	0-11 Months	0 - 16	nmol/L
Insulin-Like Growth Factor 1	Male	0-11 Months	0 - 12	nmol/L
Insulin-Like Growth Factor 1	Female	1-2 Years	0 - 21	nmol/L
Insulin-Like Growth Factor 1	Male	1-2 Years	0 - 18	nmol/L
Insulin-Like Growth Factor 1	Female	3-5 Years	0 - 32	nmol/L
Insulin-Like Growth Factor 1	Male	3-5 Years	0 - 29	nmol/L
Insulin-Like Growth Factor 1	Female	6-8 Years	3.0 - 52	nmol/L
Insulin-Like Growth Factor 1	Male	6-8 Years	2.0 - 45	nmol/L
Insulin-Like Growth Factor 1	Female	9-11 Years	6.5 - 72	nmol/L
Insulin-Like Growth Factor 1	Male	9-11 Years	3.0 - 60	nmol/L
Insulin-Like Growth Factor 1	Female	12-15 Years	12.0 - 78	nmol/L
Insulin-Like Growth Factor 1	Male	12-15 Years	6.5 - 68	nmol/L
Insulin-Like Growth Factor 1	Female	16-20 Years	14.0 - 68	nmol/L
Insulin-Like Growth Factor 1	Male	16-20 Years	15.5 - 67	nmol/L
Insulin-Like Growth Factor 1	Female	21-30 Years	11.0 - 46	nmol/L
Insulin-Like Growth Factor 1	Male	21-30 Years	10.5 - 47	nmol/L
Insulin-Like Growth Factor 1	Female	31-40 Years	10.0 - 38	nmol/L
Insulin-Like Growth Factor 1	Male	31-40 Years	10.5 - 32	nmol/L
Insulin-Like Growth Factor 1	Female	41-50 Years	7.5 - 35	nmol/L
Insulin-Like Growth Factor 1	Male	41-50 Years	8.5 - 31	nmol/L
Insulin-Like Growth Factor 1	Female	51-60 Years	5.5 - 32	nmol/L
Insulin-Like Growth Factor 1	Male	51-60 Years	6.5 - 30	nmol/L
Insulin-Like Growth Factor 1	Female	61-70 Years	3.5 - 32	nmol/L
Insulin-Like Growth Factor 1	Male	61-70 Years	3.5 - 32	nmol/L
Insulin-Like Growth Factor 1	Female	71-80 Years	3.0 - 30	nmol/L
Insulin-Like Growth Factor 1	Male	71-80 Years	2.5 - 32	nmol/L
Insulin-Like Growth Factor 1	Female	81 Years and over	2.0 - 25	nmol/L
Insulin-Like Growth Factor 1	Male	81 Years and over	2.0 - 24	nmol/L
Intestinal ALP	Any	Any	0-18	U/L
Iron	Any	0-13 Years	5-25	μmol/L
Iron	Female	14-18 Years	6-30	μmol/L
Iron	Male	14-18 Years	8-31	μmol/L
Iron	Unknown	14-18 Years	6-31	μmol/L
Iron	Any	19 Years and over	6-35	μmol/L
Iron-binding saturation	Female	Any	16-40	%
Iron-binding saturation	Male	Any	16-50	%
Iron-binding saturation	Unknown	Any	16-50	%
Lactate	Any	0-16 Years	0.6-2.5	mmol/L
Lactate	Any	17 Years and over	0.5-2.2	mmol/L
Lactate dehydrogenase	Any	0-14 Days	0-1128	U/L
Lactate dehydrogenase	Any	15 days-11 Months	0-424	U/L
Lactate dehydrogenase	Any	1-9 Years	0-305	U/L
Lactate dehydrogenase	Female	10-14 Years	0-260	U/L

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Lactate dehydrogenase	Male	10-14 Years	0-270	U/L
Lactate dehydrogenase	Unknown	10-14 Years	0-270	U/L
Lactate dehydrogenase	Any	15-18 Years	0-240	U/L
Lactate dehydrogenase	Female	19 Years and over	135-214	U/L
Lactate dehydrogenase	Male	19 Years and over	135-225	U/L
Lactate dehydrogenase	Unknown	19 Years and over	135-225	U/L
Lipase	Any	Any	13-60	U/L
Lipoprotein (a)	Any	Any	0-74	nmol/L
Lithium	Any	Any	0.4-1.0	mmol/L
Liver ALP	Any	0-14 Days	0-31	U/L
Liver ALP	Any	15 days-11 Months	0-58	U/L
Liver ALP	Any	1-9 Years	0-42	U/L
Liver ALP	Any	10-12 Years	0-52	U/L
Liver ALP	Male	13-14 Years	0-58	U/L
Liver ALP	Female	13-14 Years	0-32	U/L
Liver ALP	Unknown	13-14 Years	0-58	U/L
Liver ALP	Male	15-16 Years	0-41	U/L
Liver ALP	Female	15-16 Years	0-36	U/L
Liver ALP	Unknown	15-16 Years	0-41	U/L
Liver ALP	Male	17-18 Years	0-46	U/L
Liver ALP	Female	17-18 Years	0-27	U/L
Liver ALP	Unknown	17-18 Years	0-46	U/L
Liver ALP	Male	19 Years and over	0-68	U/L
Liver ALP	Female	19 Years and over	0-73	U/L
Liver ALP	Unknown	19 Years and over	0-73	U/L
Luteinising Hormone	Male	0-5 Months	0-6.2	U/L
Luteinising Hormone	Female	0-5 Months	0-8.2	U/L
Luteinising Hormone	Male	6 months-9 Years	0-1.4	U/L
Luteinising Hormone	Female	6 months-9 Years	0-1.3	U/L
Luteinising Hormone	Male	10-13 Years	0-2.0	U/L
Luteinising Hormone	Male	14-18 Years	1.3-8.4	U/L
Luteinising Hormone	Male	19 Years and over	1.7-8.6	U/L
Luteinising Hormone	Female	9 Years and over	See comment	U/L
Magnesium	Any	0-30 Days	0.6-1	mmol/L
Magnesium	Any	1 Month and over	0.7-1	mmol/L
Net Bilirubin absorbance (non-reportable)	Any	Any	0-0.007	AU
Net Oxyhaemoglobin absorbance (non-reportable)	Any	Any	0-0.02	AU
Non-HDL Cholesterol	Any	Any	0 - 3.9	mmol/L
NT-proBNP	Any	Any	0-399	ng/L
Oestradiol	Any	0-28 Days	<352	pmol/L
Oestradiol	Any	29 days-9 Years	<92	pmol/L
Oestradiol	Male	10-18 Years	<135	pmol/L
Oestradiol	Male	19 Years and over	<160	pmol/L

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Oestradiol	Female	10 Years and over	See comment	pmol/L
Osmolality	Any	Any	275-295	mOsm/kg
Oxalate (Plasma)	Any	Any	0-9	μmol/L
Parathyroid Hormone	Male	0-31 Days	0.7-6.3	pmol/L
Parathyroid Hormone	Female	0-31 Days	0.7-6.3	pmol/L
Parathyroid Hormone	Male	1-11 Months	0.9-6.5	pmol/L
Parathyroid Hormone	Female	1-11 Months	0.9-6.5	pmol/L
Parathyroid Hormone	Male	1-10 Years	1.2-6.3	pmol/L
Parathyroid Hormone	Female	1-10 Years	1.2-6.3	pmol/L
Parathyroid Hormone	Male	11-18 Years	1.6-7.2	pmol/L
Parathyroid Hormone	Female	11-18 Years	1.6-7.2	pmol/L
Parathyroid Hormone	Any	0-18 Years	0.7-7.2	pmol/L
Parathyroid Hormone	Any	19 Years and over	1.6-6.9	pmol/L
Phenobarbital	Any	Any	10-40	mg/L
Phenytoin	Any	Any	5-20	mg/L
Phosphate	Any	0-28 Days	1.3-2.6	mmol/L
Phosphate	Any	29 days-11 Months	1.3-2.4	mmol/L
Phosphate	Any	1-16 Years	0.9-1.8	mmol/L
Phosphate	Any	17 Years and over	0.8-1.5	mmol/L
Phosphate	Any	0-28 Days	1.3-2.6	mmol/L
Phosphate	Any	29 days -11 Months	1.3-2.4	mmol/L
Phosphate	Any	1-16 Years	0.9-1.8	mmol/L
Phosphate	Any	17 Years and over	0.8-1.5	mmol/L
Plasma 3-Methoxytyramine	Any	Any	0-179	pmol/L
Plasma Metanephrine	Any	Any	80-510	pmol/L
Plasma Normetanephrine	Any	Any	120-1180	pmol/L
Potassium	Any	Any	3.5-5.3	mmol/L
Prealbumin	Any	Any	0.2-0.4	g/L
Pregnanediol	Any	0-2 Years	0-9	μg/24hr
Pregnanediol	Any	3-4 Years	0-19	μg/24hr
Pregnanediol	Any	5-6 Years	0-29	μg/24hr
Pregnanediol	Male	7-8 Years	0-49	μg/24hr
Pregnanediol	Male	9 Years	0-49	μg/24hr
Pregnanediol	Male	10 Years	0-49	μg/24hr
Pregnanediol	Male	11-12 Years	20-100	μg/24hr
Pregnanediol	Male	13 Years and over	80-220	μg/24hr
Pregnanediol	Female	7-8 Years	0-29	μg/24hr
Pregnanediol	Female	9 Years	0-29	μg/24hr
Pregnanediol	Female	10 Years	0-29	μg/24hr
Pregnanediol	Female	11-12 Years	20-600	μg/24hr
Pregnanediol	Female	13 Years and over	0-2109	μg/24hr
Pregnanetriol	Any	0-2 Years	0-49	μg/24hr
Pregnanetriol	Any	3-4 Years	0-49	μg/24hr
Pregnanetriol	Any	5-6 Years	0-49	μg/24hr

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Pregnanetriol	Any	7-8 Years	0-49	µg/24hr
Pregnanetriol	Any	9 Years	0-49	µg/24hr
Pregnanetriol	Any	10 Years	0-49	µg/24hr
Pregnanetriol	Any	11-12 Years	20-100	µg/24hr
Pregnanetriol	Male	13 Years and over	110-520	µg/24hr
Pregnanetriol	Female	13 Years and over	0-479	µg/24hr
Progesterone	Any	0-28 Days	<770	nmol/L
Progesterone	Any	29 days-11 Months	<4	nmol/L
Progesterone	Female	1-9 Years	<4	nmol/L
Progesterone	Male	0-18 Years	<4	nmol/L
Progesterone	Male	19 Years and over	<0.5	nmol/L
Progesterone	Female	10 Years and over	See comment	nmol/L
Progesterone	Any	19 Years and over	0-46.3	nmol/L
Prolactin	Any	0-28 Days	>23	mU/L
Prolactin	Any	29 days-11 Months	110-1274	mU/L
Prolactin	Any	1-18 Years	64-532	mU/L
Prolactin	Male	19 Years and over	86-324	mU/L
Prolactin	Female	19 Years and over	102-496	mU/L
Prolactin	Any	19 Years and over	86-496	mU/L
Prostate Specific Antigen	Male	0-49 Years	0-2.5	µg/L
Prostate Specific Antigen	Male	50-59 Years	0-3.5	µg/L
Prostate Specific Antigen	Male	60-69 Years	0-4.5	µg/L
Prostate Specific Antigen	Male	70 Years and over	0-6.5	µg/L
Random Blood Glucose	Any	Any	4.1-6.1	mmol/L
Rheumatoid Factor Turbidimetry	Any	Any	0 - 14	IU/mL
Salicylate	Any	Any	0-299	mg/L
Selenium	Any	0-6 Days	0.33-0.97	µmol/L
Selenium	Any	7 days-4 Months	0.51-1.12	µmol/L
Selenium	Any	5-11 Months	0.6-1.29	µmol/L
Selenium	Any	1-13 Years	0.75-1.46	µmol/L
Selenium	Any	14 Years and over	0.66-1.57	µmol/L
Serum Albumin	Any	Any	34-50	g/L
Serum Amyloid A	Any	Any	0-9.9	mg/L
Serum folate	Any	Any	>2.9	µg/L
Sex Hormone Binding Globulin	Male	0-31 Days	>15	nmol/L
Sex Hormone Binding Globulin	Female	0-31 Days	>15	nmol/L
Sex Hormone Binding Globulin	Male	32 days-12 Years	>37	nmol/L
Sex Hormone Binding Globulin	Female	32 days-12 Years	>37	nmol/L
Sex Hormone Binding Globulin	Male	13-14 Years	21-152	nmol/L
Sex Hormone Binding Globulin	Female	13-14 Years	21-152	nmol/L
Sex Hormone Binding Globulin	Male	15-18 Years	14-62	nmol/L
Sex Hormone Binding Globulin	Female	15-18 Years	22-127	nmol/L
Sex Hormone Binding Globulin	Male	19-49 Years	18-54	nmol/L
Sex Hormone Binding Globulin	Female	19-49 Years	32-128	nmol/L

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Sex Hormone Binding Globulin	Male	50 Years and over	21-77	nmol/L
Sex Hormone Binding Globulin	Female	50 Years and over	27-128	nmol/L
Sex Hormone Binding Globulin	Unknown	0-18 Years	>15	nmol/L
Sex Hormone Binding Globulin	Unknown	19 Years and over	18-128	nmol/L
Sodium	Any	0-15 Years	133-146	mmol/L
Sodium	Any	16 Years and over	133-146	mmol/L
Tacrolimus	Any	Any	5-15	µg/L
Testosterone	Male	0-5 Months	0.2-19	nmol/L
Testosterone	Female	0-5 Months	0-12	nmol/L
Testosterone	Unknown	0-5 Months	0-19	nmol/L
Testosterone	Male	6 months-6 Years	0-0.3	nmol/L
Testosterone	Female	6 months-7 Years	0-0.3	nmol/L
Testosterone	Male	7-18 Years	See comment	nmol/L
Testosterone	Unknown	6 months-7 Years	0-0.3	nmol/L
Testosterone	Female	8-18 Years	0-1.3	nmol/L
Testosterone	Male	19-49 Years	8.6-29	nmol/L
Testosterone	Female	19-49 Years	0-1.7	nmol/L
Testosterone	Male	50 Years and over	6.7-25.7	nmol/L
Testosterone	Female	50 Years and over	0-1.4	nmol/L
Tetrahydrocortisol(THF)(5beta)	Any	0-2 Years	10-150	µg/24hr
Tetrahydrocortisol(THF)(5beta)	Any	3-4 Years	50-250	µg/24hr
Tetrahydrocortisol(THF)(5beta)	Any	5-6 Years	50-300	µg/24hr
Tetrahydrocortisol(THF)(5beta)	Any	7-8 Years	100-400	µg/24hr
Tetrahydrocortisol(THF)(5beta)	Male	9 Years	80-450	µg/24hr
Tetrahydrocortisol(THF)(5beta)	Male	10 Years	200-500	µg/24hr
Tetrahydrocortisol(THF)(5beta)	Male	11-12 Years	200-900	µg/24hr
Tetrahydrocortisol(THF)(5beta)	Male	13 Years and over	600-1420	µg/24hr
Tetrahydrocortisol(THF)(5beta)	Female	9 Years	100-500	µg/24hr
Tetrahydrocortisol(THF)(5beta)	Female	10 Years	200-550	µg/24hr
Tetrahydrocortisol(THF)(5beta)	Female	11-12 Years	200-800	µg/24hr
Tetrahydrocortisol(THF)(5beta)	Female	13 Years and over	440-1610	µg/24hr
Tetrahydrocortisone (THE)	Any	0-6 Months	20-290	µg/24hr
Tetrahydrocortisone (THE)	Any	7 months-2 Years	50-250	µg/24hr
Tetrahydrocortisone (THE)	Any	3-4 Years	200-800	µg/24hr
Tetrahydrocortisone (THE)	Any	5-6 Years	300-1000	µg/24hr
Tetrahydrocortisone (THE)	Any	7-8 Years	400-1200	µg/24hr
Tetrahydrocortisone (THE)	Male	9 Years	450-1250	µg/24hr
Tetrahydrocortisone (THE)	Male	10 Years	500-1300	µg/24hr
Tetrahydrocortisone (THE)	Male	11-12 Years	500-2000	µg/24hr
Tetrahydrocortisone (THE)	Male	13 Years and over	1660-3330	µg/24hr
Tetrahydrocortisone (THE)	Female	9 Years	300-1500	µg/24hr
Tetrahydrocortisone (THE)	Female	10 Years	500-1300	µg/24hr
Tetrahydrocortisone (THE)	Female	11-12 Years	500-1500	µg/24hr
Tetrahydrocortisone (THE)	Female	13 Years and over	980-3240	µg/24hr

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THF + 5alpha-THF	Male	13 Years and over	1210-2370	µg/24hr
THF + 5alpha-THF	Female	13 Years and over	610-2140	µg/24hr
THF + 5alpha-THF : THE ratio	Male	13 Years and over	0.51-1.07	
THF + 5alpha-THF : THE ratio	Female	13 Years and over	0.5-1.3	
Thyroglobulin	Any	Any	<0.1	U/mL
Thyroid Peroxidase Antibodies	Any	Any	0 - 34	IU/mL
Thyroid Stimulating Hormone	Any	0-6 Days	0.7-15.2	mU/L
Thyroid Stimulating Hormone	Any	7 days-3 Months	0.72-11.0	mU/L
Thyroid Stimulating Hormone	Any	4-11 Months	0.73-8.35	mU/L
Thyroid Stimulating Hormone	Any	1-6 Years	0.7-5.97	mU/L
Thyroid Stimulating Hormone	Any	7-11 Years	0.6-4.84	mU/L
Thyroid Stimulating Hormone	Any	12-20 Years	0.51-4.3	mU/L
Thyroid Stimulating Hormone	Any	21 Years and over	0.27-4.2	mU/L
Total androgens	Any	0-2 Years	0-79	µg/24hr
Total androgens	Any	3-4 Years	0-99	µg/24hr
Total androgens	Male	5-6 Years	40-300	µg/24hr
Total androgens	Male	7-8 Years	30-470	µg/24hr
Total androgens	Male	9 Years	130-1000	µg/24hr
Total androgens	Male	10 Years	220-1200	µg/24hr
Total androgens	Male	11-12 Years	280-1290	µg/24hr
Total androgens	Male	13 Years and over	2150-3590	µg/24hr
Total androgens	Female	5-6 Years	40-170	µg/24hr
Total androgens	Female	7-8 Years	90-140	µg/24hr
Total androgens	Female	9 Years	90-450	µg/24hr
Total androgens	Female	10 Years	260-780	µg/24hr
Total androgens	Female	11-12 Years	500-1400	µg/24hr
Total androgens	Female	13 Years and over	570-3280	µg/24hr
Total Bilirubin	Any	0-14 Days	0-250	µmol/L
Total Bilirubin	Any	15 Days and over	0-20	µmol/L
Total C19 metabolites	Male	7 Months and over	510-1060	µg/24hr
Total C19 metabolites	Female	7 Months and over	220-880	µg/24hr
Total C21 metabolites	Male	13 Years and over	4070-7490	µg/24hr
Total C21 metabolites	Female	13 Years and over	2630-7300	µg/24hr
Total cortisol metabolites	Any	0-2 Years	300-900	µg/24hr
Total cortisol metabolites	Any	3-4 Years	630-1730	µg/24hr
Total cortisol metabolites	Any	5-6 Years	820-2160	µg/24hr
Total cortisol metabolites	Any	7-8 Years	1000-2730	µg/24hr
Total cortisol metabolites	Male	9 Years	1200-3200	µg/24hr
Total cortisol metabolites	Male	10 Years	1600-3600	µg/24hr
Total cortisol metabolites	Male	11-12 Years	2650-4640	µg/24hr
Total cortisol metabolites	Male	13 Years and over	4780-8450	µg/24hr
Total cortisol metabolites	Female	9 Years	900-3000	µg/24hr
Total cortisol metabolites	Female	10 Years	1600-3600	µg/24hr
Total cortisol metabolites	Female	11-12 Years	2650-4640	µg/24hr
Total cortisol metabolites	Female	13 Years and over	2870-7890	µg/24hr

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Total iron binding capacity	Male	0-8 Weeks	24.4-53.5	μmol/L
Total iron binding capacity	Female	0-8 Weeks	24.4-53.5	μmol/L
Total iron binding capacity	Male	9 weeks -11 Months	25.3-77.4	μmol/L
Total iron binding capacity	Female	9 weeks -11 Months	25.3-77.4	μmol/L
Total iron binding capacity	Male	1-17 Years	52.4-80.5	μmol/L
Total iron binding capacity	Female	1-17 Years	52.4-80.5	μmol/L
Total iron binding capacity	Male	18 Years and over	44.0-79.2	μmol/L
Total iron binding capacity	Female	18 Years and over	44.0-79.2	μmol/L
Total iron binding capacity	Any	Any	24.4-80.5	μmol/L
Total Protein	Any	0-14 Days	51-80	g/L
Total Protein	Any	15 days -11 months	43-69	g/L
Total Protein	Any	1-5 Years	59-73	g/L
Total Protein	Any	6-8 Years	62-75	g/L
Total Protein	Any	9-18 Years	63-78	g/L
Total Protein	Any	19 Years and over	60-80	g/L
Transferrin	Any	Any	2.0-3.6	g/L
Transferrin Saturation	Female	Any	16-40	%
Transferrin Saturation	Male	Any	16-50	%
Triglyceride (random)	Any	Any	0-2.2	mmol/L
Triglyceride (fasting)	Any	Any	0-1.6	mmol/L
Troponin I (High Sensitivity)	Male	Any	0-34.2	ng/L
Troponin I (High Sensitivity)	Female	Any	0-15.6	ng/L
Troponin I (High Sensitivity)	Unknown	Any	0-34.2	ng/L
Unsaturated iron binding	Female	Any	24.2-70.1	μmol/L
Unsaturated iron binding	Male	Any	22.3-61.7	μmol/L
Unsaturated iron binding	Unknown	Any	22.3-70.1	μmol/L
Urate	Any	0-14 Days	158-748	μmol/L
Urate	Female	15 days-11 Months	88-370	μmol/L
Urate	Female	1-11 Years	100-282	μmol/L
Urate	Female	12-14 Years	147-342	μmol/L
Urate	Female	15-18 Years	147-342	μmol/L
Urate	Female	19 Years and over	140-360	μmol/L
Urate	Male	0-11 Months	88-370	μmol/L
Urate	Male	1-11 Years	100-282	μmol/L
Urate	Male	12-14 Years	150-446	μmol/L
Urate	Male	15-18 Years	150-446	μmol/L
Urate	Male	19 Years and over	200-430	μmol/L
Urate	Unknown	0-14 Years	88-446	μmol/L
Urate	Unknown	15-18 Years	88-446	μmol/L
Urate	Unknown	19-49 Years	140-430	μmol/L
Urate	Unknown	19 Years and over	140-430	μmol/L
Urea	Any	0-28 Days	0.8-5.5	mmol/L
Urea	Any	29 days -11 Months	1-5.5	mmol/L
Urea	Any	1-16 Years	2.5-6.5	mmol/L
Urea	Any	17 Years and over	2.5-7.8	mmol/L

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Urine 3-Methoxytyramine Output	Any	Any	0-2.5	µmol/24hr
Urine 3-Methoxytyramine:Creatinine Ratio	Any	0-2 Months	0-2.1	µmol/mmol
Urine 3-Methoxytyramine:Creatinine Ratio	Any	3-5 Months	0-2.1	µmol/mmol
Urine 3-Methoxytyramine:Creatinine Ratio	Any	6-11 Months	0-2.1	µmol/mmol
Urine 3-Methoxytyramine:Creatinine Ratio	Any	1 Year	0-1.2	µmol/mmol
Urine 3-Methoxytyramine:Creatinine Ratio	Any	2-4 Years	0-1	µmol/mmol
Urine 3-Methoxytyramine:Creatinine Ratio	Any	5-9 Years	0-0.85	µmol/mmol
Urine 3-Methoxytyramine:Creatinine Ratio	Any	10 Years and over	0-0.6	µmol/mmol
Urine 5HIAA Output	Any	Any	0-47	µmol/24hr
Urine 5HIAA:Creatinine Ratio	Any	0-6 Years	0-8.1	µmol/mmol
Urine 5HIAA:Creatinine Ratio	Any	7-11 Years	0-4.3	µmol/mmol
Urine 5HIAA:Creatinine Ratio	Any	12 Years and over	0-5.7	µmol/mmol
Urine Albumin:Creatinine Ratio	Any	Any	0-2.9	mg/mmol
Urine Calcium Output	Any	Any	2.5-7.5	mmol/24hr
Urine Calcium:Creatinine Ratio	Any	0-365 Days	0-2.2	mmol/mmol
Urine Calcium:Creatinine Ratio	Any	1 Year	0-1.5	mmol/mmol
Urine Calcium:Creatinine Ratio	Any	2 Years	0-1.4	mmol/mmol
Urine Calcium:Creatinine Ratio	Any	3-4 Years	0-1.1	mmol/mmol
Urine Calcium:Creatinine Ratio	Any	5-6 Years	0-0.8	mmol/mmol
Urine Calcium:Creatinine Ratio	Any	7 Years and over	0-0.7	mmol/mmol
Urine Citrate Output	Female	Any	1.3-6	mmol/24hr
Urine Citrate Output	Male	Any	0.6-4.8	mmol/24hr
Urine Citrate Output	Unknown	Any	0.6-6	mmol/24hr
Urine Citrate:Creatinine Ratio	Female	Any	0.11-0.55	mmol/mmol
Urine Citrate:Creatinine Ratio	Male	Any	0.04-0.33	mmol/mmol
Urine Citrate:Creatinine Ratio	Unknown	Any	0.04-0.55	mmol/mmol
Urine Copper	Any	Any	0-0.3	µmol/L
Urine Copper Output	Any	Any	0-0.69	µmol/24hr
Urine Copper:Creatinine Ratio	Male	Any	0-28	µmol/mol
Urine Copper:Creatinine Ratio	Female	Any	0-44	µmol/mol
Urine Copper:Creatinine Ratio	Unknown	Any	0-44	µmol/mol
Urine Cortisol Output	Any	Any	0-124	nmol/24hr
Urine Creatinine Output	Female	Any	6-13	mmol/24hr
Urine Creatinine Output	Male	Any	9-19	mmol/24hr
Urine Creatinine Output	Unknown	Any	6-19	mmol/24hr
Urine DHG:Creatinine Ratio	Any	Any	0-4.9	µmol/mmol
Urine Glycerate:Creatinine Ratio	Any	Any	0-99	µmol/mmol
Urine Glycolate	Any	Any	0-5000	µmol/L
Urine Glycolate Output	Any	Any	140-620	µmol/24hr
Urine Glycolate:Creatinine Ratio	Any	0-11 Months	1-49	µmol/mmol

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Urine Glycolate:Creatinine Ratio	Any	1-4 Years	2-54	μmol/mmol
Urine Glycolate:Creatinine Ratio	Any	5-11 Years	1-68	μmol/mmol
Urine Glycolate:Creatinine Ratio	Any	12 Years and over	14-57	μmol/mmol
Urine Magnesium Output	Any	Any	2.4-6.5	mmol/24hr
Urine Metadrenaline Output	Any	0-2 Months	0-0.2	μmol/24hr
Urine Metadrenaline Output	Any	3-11 Months	0-0.2	μmol/24hr
Urine Metadrenaline Output	Any	1-2 Years	0-0.3	μmol/24hr
Urine Metadrenaline Output	Any	3-7 Years	0-0.5	μmol/24hr
Urine Metadrenaline Output	Any	8-11 Years	0-0.8	μmol/24hr
Urine Metadrenaline Output	Any	12 Years and over	0-1.2	μmol/24hr
Urine Metadrenaline:Creatinine Ratio	Any	0-2 Months	0-0.5	μmol/mmol
Urine Metadrenaline:Creatinine Ratio	Any	3-5 Months	0-0.38	μmol/mmol
Urine Metadrenaline:Creatinine Ratio	Any	6-11 Months	0-0.27	μmol/mmol
Urine Metadrenaline:Creatinine Ratio	Any	1 Year	0-0.22	μmol/mmol
Urine Metadrenaline:Creatinine Ratio	Any	2-4 Years	0-0.22	μmol/mmol
Urine Metadrenaline:Creatinine Ratio	Any	5-9 Years	0-0.18	μmol/mmol
Urine Metadrenaline:Creatinine Ratio	Any	10 Years and over	0-0.14	μmol/mmol
Urine Normetadrenaline Output	Any	0-2 Months	0-0.9	μmol/24hr
Urine Normetadrenaline Output	Any	3-11 Months	0-0.6	μmol/24hr
Urine Normetadrenaline Output	Any	1-2 Years	0-0.6	μmol/24hr
Urine Normetadrenaline Output	Any	3-7 Years	0-1.4	μmol/24hr
Urine Normetadrenaline Output	Any	8-11 Years	0-1.9	μmol/24hr
Urine Normetadrenaline Output	Any	12 Years and over	0-3.3	μmol/24hr
Urine Normetadrenaline:Creatinine Ratio	Any	0-2 Months	0-2.76	μmol/mmol
Urine Normetadrenaline:Creatinine Ratio	Any	3-5 Months	0-1.69	μmol/mmol
Urine Normetadrenaline:Creatinine Ratio	Any	6-11 Months	0-1.17	μmol/mmol
Urine Normetadrenaline:Creatinine Ratio	Any	1 Year	0-0.6	μmol/mmol
Urine Normetadrenaline:Creatinine Ratio	Any	2-4 Years	0-0.46	μmol/mmol
Urine Normetadrenaline:Creatinine Ratio	Any	5-9 Years	0-0.29	μmol/mmol
Urine Normetadrenaline:Creatinine Ratio	Any	10 Years and over	0-0.21	μmol/mmol
Urine Oxalate Output	Any	Any	100-460	μmol/24hr
Urine Oxalate:Creatinine Ratio	Any	0-6 Months	0-290	μmol/mmol
Urine Oxalate:Creatinine Ratio	Any	7-23 Months	0-219	μmol/mmol
Urine Oxalate:Creatinine Ratio	Any	2-4 Years	0-142	μmol/mmol
Urine Oxalate:Creatinine Ratio	Any	5-11 Years	0-75	μmol/mmol
Urine Oxalate:Creatinine Ratio	Any	12-17 Years	0-43	μmol/mmol
Urine Oxalate:Creatinine Ratio	Female	18 Years and over	0-45	μmol/mmol
Urine Oxalate:Creatinine Ratio	Male	18 Years and over	0-33	μmol/mmol
Urine Oxalate:Creatinine Ratio	Unknown	18 Years and over	0-45	μmol/mmol
Urine Phosphate Output	Any	Any	15-50	mmol/24hr

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Urine Phosphate:Creatinine Ratio	Male	1-11 Months	1.2-19.0	mmol/mmol
Urine Phosphate:Creatinine Ratio	Male	1 Years	1.2-14.0	mmol/mmol
Urine Phosphate:Creatinine Ratio	Male	2 Years	1.2-12.0	mmol/mmol
Urine Phosphate:Creatinine Ratio	Male	3-4 Years	1.2-8.0	mmol/mmol
Urine Phosphate:Creatinine Ratio	Male	5-6 Years	1.2-5.0	mmol/mmol
Urine Phosphate:Creatinine Ratio	Male	7-9 Years	1.2-3.6	mmol/mmol
Urine Phosphate:Creatinine Ratio	Male	10-13 Years	0.8-3.2	mmol/mmol
Urine Phosphate:Creatinine Ratio	Male	14-16 Years	0.8-2.7	mmol/mmol
Urine Phosphate:Creatinine Ratio	Female	1-11 Months	1.2-19.0	mmol/mmol
Urine Phosphate:Creatinine Ratio	Female	1 Years	1.2-14.0	mmol/mmol
Urine Phosphate:Creatinine Ratio	Female	2 Years	1.2-12.0	mmol/mmol
Urine Phosphate:Creatinine Ratio	Female	3-4 Years	1.2-8.0	mmol/mmol
Urine Phosphate:Creatinine Ratio	Female	5-6 Years	1.2-5.0	mmol/mmol
Urine Phosphate:Creatinine Ratio	Female	7-9 Years	1.2-3.6	mmol/mmol
Urine Phosphate:Creatinine Ratio	Female	10-13 Years	0.8-3.2	mmol/mmol
Urine Phosphate:Creatinine Ratio	Female	14-16 Years	0.8-2.7	mmol/mmol
Urine Phosphate:Creatinine Ratio	Unknown	0-11 Months	0.8-19.0	mmol/mmol
Urine Phosphate:Creatinine Ratio	Unknown	1-16 Years	0.8-19.0	mmol/mmol
Urine Potassium Output	Any	Any	25-125	mmol/24hr
Urine Protein Output	Any	Any	0-0.13	g/24hr
Urine Protein:Creatinine Ratio	Any	Any	0-13	mg/mmol
Urine Sodium Output	Any	Any	40-220	mmol/L
Urine Urate Output	Any	Any	1.5-4.5	mmol/24hr
Urine Urate:Creatinine Ratio	Any	0-6 Days	0-1.96	mmol/mmol
Urine Urate:Creatinine Ratio	Any	7 days-1 Year	0-1.53	mmol/mmol
Urine Urate:Creatinine Ratio	Any	2-5 Years	0-1.35	mmol/mmol
Urine Urate:Creatinine Ratio	Any	6-9 Years	0-0.85	mmol/mmol
Urine Urate:Creatinine Ratio	Any	10 Years and over	0-0.67	mmol/mmol
Urine Urea Output	Any	Any	428-714	mmol/24hr
Urine Zinc Output	Any	Any	3-19.3	µmol/24hr
Urine Zinc:Creatinine ratio	Any	Any	0-1	µmol/mmol
Vitamin B12	Male	0 Months	187-1866	ng/L
Vitamin B12	Female	0 Months	187-1866	ng/L
Vitamin B12	Male	1-11 Months	168-1675	ng/L
Vitamin B12	Female	1-11 Months	168-1675	ng/L
Vitamin B12	Male	1-11 Years	354-1599	ng/L
Vitamin B12	Female	1-11 Years	354-1599	ng/L
Vitamin B12	Male	12-18 Years	270-1132	ng/L
Vitamin B12	Female	12-18 Years	270-1132	ng/L
Vitamin B12	Unknown	0-18 Years	168-1866	ng/L
Vitamin B12	Unknown	18 Years and over	197-771	ng/L
Zinc	Any	0-5 Months	5-21.5	µmol/L
Zinc	Any	6 months-18 Years	9.8-19	µmol/L
Zinc	Male	19-64 Years	10.1-20.2	µmol/L
Zinc	Female	19-64 Years	9.6-20.5	µmol/L



Helix reference range (biochemistry)

Q-CARD

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Zinc	Unknown	19-64 Years	9.6-20.5	μmol/L
Zinc	Male	65 Years and over	8-20	μmol/L
Zinc	Female	65 Years and over	9.2-19.2	μmol/L
Zinc	Unknown	65 Years and over	8-20	μmol/L