REFERENCE RANGES

HCAHealthcare uk

Laboratories

INTRODUCTION

The reference range and reporting units, including any interpretive information, are specific to the methodology used as well as the patient's sex and age, if appropriate. The laboratory ensures the reference ranges remain current for each test methodology, by using manufactured reference ranges and the Pathology Harmony quoted ranges, where appropriate.

Results may be flagged as being outside the reference range, if very high or very low, and in need of clinical intervention.

All reference ranges are reviewed at regular intervals and are permanently held in our computer system against each patient's results.

Reference ranges are quoted on all reports where appropriate for the test carried out.

Please contact the Customer Service Team at **hcalaboratories@hcahealthcare.co.uk** if you require further information.

BIOCHEMISTRY REFERENCE RANGES

Test	Reference Range		Units
Albumin	Adult Male Adult Female	35 – 50 35 – 50	g/L
Alkaline Phosphatase	Adult Male Adult Female	30 –130 30 –130	IU/L
ALT	Adult Male Adult Female	<41 <34	IU/L
AFP	Adult Male Adult Female	<6 <6	IU/ml
AST	Adult Male Adult Female	<41 <33	IU/L
Bilirubin total	Adult Male Adult Female	<21 <21	umol/L
CA125	Adult Female	<36	KU/L
CA153	Adult Female	<29	KU/L
CA199	Adult Male Adult Female	<35 <35	KU/L
Calcium *	Male Female	2.10 – 2.55 2.10 – 2.55	mmol/L

CEA	Adult Male Adult Female	<3.9 <3.9	ng/ml
Cholesterol (total)	Male Female	<5.0 <5.0	mmol/L
СК	Male Female	40 – 320 25 – 200	IU/L
СКМВ	Male Female	<26 <26	IU/L
Creatinine	Adult Male Adult Female	62 – 106 44 – 80	umol/L
CRP	Male Female	<5.0 <5.0	mg/L
Free T3	Adult Male Adult Female	3.1-6.8 3.1-6.8	pmol/l
Free Thyroxine (FT4)	Adult Male Adult Female	12.0 – 22.0 12.0 – 22.0	pmol/l
FSH	Adult Male Adult Female: Follicular Ovulatory Luteal Post – Menopausal	1.5-12.4 3.5-12.5 4.7-21.5 1.7-7.7 25.8-134.8	U/L

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^{*} Use same reference range for total and corrected calcium

BIOCHEMISTRY REFERENCE RANGES

Test	Reference Range	Units	Progesterone	Adult Female Follicular <0.7 Ovulation <13.3	nmol/L
GGT	Adult Male 8–61 Adult Female 5–36	IU/L		Luteal 13.1–46.3 Post–Menopausal <0.6	
Glucose (Fasting)	Male 4.1–6.0 Female 4.1–6.0	mmol/L	PSA	3 - 39 years <1.5 40 - 49 years <2.1 50 - 59 years <3.2 60 - 69 years <4.2	ug/l
LICC (I	Adult Male 0–2			≥ 70 years <4.5	
HCG (Intact + Beta)	Adult Female <3 Negative 3-25 Equivocal >25 Positive	IU/L	Sodium	Male 133 – 146 Female 133 – 146	mmol/L
HDL Cholesterol	Male 0.9 – 1.5 Female 1.2 – 1.7	mmol/L		Adult Male: 20 – 49 years 18.3 – 54.1 >50 years 20.6 – 76.7	
LDH	Adult Male <251 Adult Female <251	IU/L	SHBG	Adult Female: 20 – 49 years 32.4 – 128 >50 years 27.1 – 128	nmol/L
LH	Adult Male 1.7–8.6 Adult Female: Follicular 2.4–12.6 Ovulatory 14.0–95.6 Luteal 1.0–11.4 Post–Menopausal 7.7–58.5	U/L	Testosterone	Adult Male: 20 – 49 years 8.64 – 29.0 >50 years 6.68 – 25.7 Adult Female: 20 – 49 years 0.3 – 1.7 >50 years 0.1 – 1.4	nmol/l
Magnesium	Adult Male 0.7–1.0 Adult Female 0.7–1.0	mmol/L	Thyroid Stimulating	Adult Male 0.27 – 4.20	
	Male: <159		Hormone (TSH)	Adult Female 0.27 – 4.20	mU/I
Oestradiol	Female: Follicular 114-332 Ovulation 222-1959 Luteal 222-854	pmol/L	Total Protein	Adult Male 60 – 80 Adult Female 60 – 80	g/L
	Postmenopausal <506	Triglycerides	Adult Male <1.7 Adult Female <1.7	mmol/L	
Phosphate	Adult Male 0.8 – 1.5 Adult Female 0.8 – 1.5	mmol/L	Troponin T	Adult Male: <15 Adult Female: <15	ng/L
Potassium	Adult Male 3.5 – 5.3 Adult Female 3.5 – 5.3	mmol/L	Urea	Adult Male 2.5 – 7.8 Adult Female 2.5 – 7.8	mmol/L

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HAEMATOLOGY REFERENCE RANGES

FULL BLOOD COUNT REFERENCE RANGE FOR ADULTS

Test	Units	Adult Male Range	Adult Female Range
HGB	g/L	130 – 170	120 –150
НСТ	L/L	0.40-0.50	0.36- 0.46
RBC	X 10 ¹² /L	4.5 – 5.5	3.8-4.8
*MCV	fL	81 - 101	81 - 101
мсн	pg	27 – 32	27 – 32
мснс	g/L	315 – 345	315 – 345
RDW	%	11.6-14.0	11.6-14.0
PLAT	X 10°/L	150 – 410	150 – 410

Test	Units	Adult Male Range	Adult Female Range
MPV	fL	9.0 -12.0	9.0 -12.0
WBC	X 10°/L	4.0-10.0	4.0-10.0
NEUT#	X 10°/L	2.0	-7.0
LYMPH#	X 10°/L	1.0	-3.0
MONO#	X 10°/L	0.2	-1.0
EOSINO#	X 10°/L	0.02-0.5	
BASO#	X 10°/L	0.02-0.1	
Reticulocytes	X 10°/L	50-100	

THERAPEUTIC INR RANGE FOR PATIENTS ON WARFARIN

INR	Condition/Indication
2 - 3	AF, VTE
2.5 - 3.5	MRV, AVR, Recurrent thromboembolism

ERYTHROCYTE SEDIMENTATION RATE (ESR)

Age	Male Range	Female Range - ESR (mm/hr)
1–16 Years	0 -	- 20
17 - 50 years	0 - 10	0 - 12
51 - 60 years	0 - 12	0 - 19
61 - 70 years	0 - 14	0 - 20
> 70 years	0 - 30	0 - 35

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