Reporting amino acids the requesting doctor

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Amino acid requests

	2002	2003	2004	2005
Urine	68	57	70	(60)
Plasma	52	46	57	(50)

Issues for the requester

appropriate testing
 reliable analyses
 correct and user-friendly interpretation
 relevant action

Appropriate requesting

A request for amino acid analysis should attempt to answer a question which the clinician has posed about the patient

Appropriate reporting

adequate clinical information

relevant guidelines

Reliable analyses

Iaboratory issues

other service aspects
 cost, access

Resource aspects

health economists

Iaboratory manager



correct

user-friendly

 SHBG
 33.8
 nmol/L
 (Ref = 40 - 120)

 Free Androgen Index 8.9
 (Ref = 0.6 - 4.0)

Please note: New Roche SHBG method with new reference ranges for SHBG and FAI w.e.f 04/07/04

The SHBG reference range stated is for females not on the contraceptive pill. Causes of low SHBG values: raised androgens, hirsutism/acne, PCO, Cushing's myxoedema and, probably the most important factor, obesity.

PLASMA AMINO-ACID PROFILE

No evidence of a primary Amino-Acid Disorder. The slight variation in glutamic acid, glutamine and cystine from normal is due to changes caused by delay in sample handling. Organic acid profile by GC/MS shows a pattern of hepatic immaturity/dysfunction.

Amino acid profile : NORMAL

Providing the patient was receiving an adequate protein intake or was suitably stressed at the time these results eliminate the majority of amino acid disorders. If there is still a high index of suspicion please contact the laboratory to discuss further investigations.

Relevant action

specialist laboratory advice referring laboratory liaison clinicians management

September 04-September 05

77 amino acid analyses
2 abnormal

(i) raised tyrosine
(i) raised ornithine

Conclusions

requesting doctor pleased with Nature of reports Interaction with laboratory concerned that tests may not always be appropriate follow-up is sometimes omitted