# 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