

## **Dihydrotestosterone (DHT) and testosterone profile by LC-MS/MS reference ranges**

### **1. DHT reference range**

Age	Male	Female
<6 months	No range, interpretive comment	N/A
Pre-pubertal	<0.16	<0.16
Adult	0.28 – 2.51	<0.52 <0.30 (post-menopausal)

### **2. Testosterone (LC-MS/MS) reference range**

Age	Male	Female
<6 months	<13.9	<0.4
Pre-pubertal	<0.4	<0.4
Adult	8.3 – 33.0	0.3 – 2.1

### **3. Testosterone:DHT ratio**

Age	Male	Female
Adult	6.2 – 17.2	0.9 – 6.5

No T:DHT ratio reference range has been derived in paediatric patients, therefore an interpretive comment will be added to samples from paediatric patients, as well as the adult reference range as a guide.

### **4. hCG stimulation test**

No reference range is provided for hCG stimulation tests, due to a lack of published LC-MS/MS data. Instead each case is commented on individually.

In house data indicate that 5 $\alpha$ -reductase deficiency would be most unlikely with stimulated T:DHT ratios up to around 20 by LC-MS/MS. Ratios greater than this will require individual consideration, including taking into account the fold increase from baseline.