Audit of the Diagnosis and Management of Hypogonadism in Adult Men

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Background

Symptomatic hypogonadism affects 5-6% of men aged 30-79 years and is associated with increased morbidity and mortality.¹ There are currently no trust guidelines for the diagnostic workup of these patients.

Methods

Retrospective analysis of the diagnosis and assessment of adult men with low serum total testosterone (TT) and compared with the clinical practice guidelines of The Endocrine Society.²

We identified all patients with TT below normal range (<9.9 nmol/L) carried out at the trust between July and November 2010 and excluded patients with known hypogonadism or prostate cancer.

First 50 cases were evaluated in detail using electronic records and clinic letters.

Diagnosis of Hypogonadism

In total, 247 cases with low TT were identified. Among 50 patients (mean age 63, range 34-94 years) the mean time at which TT was tested was 11:18am ± 142 minutes.

Management of Testosterone Therapy

Gonadotropins were tested in 52% of patients, of which 69.2% were low/normal and 26.9% were high. Of those with low/normal levels, 50% had complete pituitary function testing (cortisol, prolactin, free thyroxine).

Conclusions

There are pitfalls in our practice in both diagnosis and assessment of hypogonadism. Morning TT is measured later than recommended and often not repeated, resulting in potential over-diagnosis. Lack of gonadotropin measurement has serious implications for missing potential aetiology. Pre-treatment assessment and treatment monitoring must be improved to ensure patient safety. We are currently writing trust guidelines to address these issues.

References