

ENDOCRINE REVIEWS

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ENDO 2010 ABSTRACTS



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P2-466

Prevalence and Characterization of Hypogonadism among Men with Human Immunodeficiency Virus Infection: Preliminary Results.

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Introduction: Among various comorbidities of Human Immunodeficiency Virus-1 (HIV-1) infection male hypogonadism is very frequent with a prevalence of 19% in patients treated with highly active anti-retroviral therapy (HAART). Literature data are lacking and achieved by studies with less than 300 subjects each.

Aim of the study: Prevalence and clinical characterization of hypogonadism among a large number of men with Human Immunodeficiency Virus Infection.

Methods: Endocrinological examination and hormonal screening including serum total testosterone, LH and FSH assays have been performed in 950 outpatients aged 20-69 years (mean age 45.5 years) at the Metabolic Clinic of Infectious and Tropical Disease between 2005 and 2009.

Results: Mean serum total testosterone was 470.9±205.5 ng/dl. Considering Endocrine Society threshold for hypogonadism diagnosis, 15.7% of our patients was hypogonadic (T<300ng/dl); referring to LH levels 8% of them was hypogonadotropic, 77.2% was normogonadotropic and 14.8% was hypergonadotropic. According to threshold proposed by International Society for the Study of the Aging Male (ISSAM) 23.7% of subjects results hypogonadic (T<346ng/dl) of which 5.8% was hypogonadotropic, 80% normogonadotropic and 14.2% hypergonadotropic.

Table 1

	Endocrine Society (T<300ng/dl)	ISSAM (T<346ng/dl)
Percentage of hypogonadism (n hypogonadic/n total)	15.7% (149/950)	23.7% (225/950)
LH<1.4 mIU/ml	8% (12/149)	5.8% (13/225)
1.4<LH<8.9 mIU/ml	77.2% (115/149)	80% (180/225)
LH>8.9 mIU/ml	14.8 % (22/149)	14.2% (32/225)

Conclusions: Our results demonstrate a prevalence of hypogonadism in HIV patients comparable to older healthy subjects (19.3% of hypogonadism in patients with mean age 58.7 years; Schneider 2009). This study, which is conducted on an elevated number of HIV patients, shows that the prevalence of hypogonadism is higher than in general population. Normogonadotropism predominance in subjects with hypotestosteronemia suggests also a possible involvement of a pituitary dysfunction in the development of hypogonadism.

Nothing to Disclose: VR, DS, GB, LZ, CD, GO, CC, GG

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All faculty/presenters are required to disclose relevant financial interests or conflicts of interest. Disclosure Statements are provided with individual abstracts following each speaker's name and institution.

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V Rochira, D Santi, G Brigante, L Zirilli, C Diazzi, G Orlando, C Carani, G Guaraldi. Univ of Modena and Reggio Emilia, Modena, Italy

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Nothing to Disclose: VR, DS, GB, LZ, CD, GO, CC, GG

Date: Sunday, June 20, 2010

Session Info: POSTER SESSION: CLINICAL - Pathophysiology, Diagnosis & Treatment of Male Hypogonadism (1:30 PM-3:30 PM)

Presentation Time: 01:30 PM

Room: Halls D-G

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