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Role of Some Testicular Growth Factor in Infertile Males

Thesis

Submitted for partial fulfillment for
M.D. degree in Chemical Pathology

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ABSTRACT

Testis has two main functions, gamete generation and sex hormone production. These functions are controlled by systemic hormones and local factors. The aim of this study is to assess the possible interrelations between TNF- α , EGF, and IGF-1 and systemic hormonal control system and to assess their role in male infertility.

The study was conducted on 70 infertile males and 13 age matched fertile group. The study showed that FSH and LH was significantly higher in functional azospermic patients versus the fertile group. Seminal plasma IGF-1 was significantly higher in oligospermic, obstructive and functional azospermic patients versus fertile group. Seminal plasma TNF α was significantly higher in obstructive azospermic patients versus the fertile group. Seminal plasma EGF was higher significantly in primary spermatocyte arrest versus the fertile group. Further studies to confirm or to exclude their role in male infertility are needed.

Key word: Infertility - Growth factors - Testis

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