

The present study was conducted to verify the role of oxidative stress in male primary infertility. To achieve this objective, 100 infertile men of ages 20-40 years and 52 age-matched healthy individuals were enrolled. Serum MDA concentration, CAT and GST activity levels were measured by spectrophotometric methods. Serum FSH, LH, prolactin and testosterone concentrations were determined by the assay principle combines an ELFA. The results revealed significant elevation of MDA and significant decreases of CAT and GST activity levels in infertile patients when compared with control group. The highest level of MDA and the lowest activities of CAT and GST were observed in the group of azoospermia with respect to the other subgroup of the infertile patients. MDA levels were found to be significantly positively correlated, while CAT and GST activities were observed to be significantly negatively correlated with ages and body mass index of the infertile men. The results suggested that oxidative stress is involved in the pathogenesis of primary male infertility. Such involvement implicates the impairment of spermatogenesis and modulation of the male fertility hormone.

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reactive oxygen species (ROS) can damage sperm, and. ROS have been extensively seminal plasma from infertile men were significantly lower than levels in. Oxidative stress is a common pathology seen in approximately half of all infertile men. ROS, defined as including oxygen ions, free radicals and. As the lack of consensus over the importance of oxidative stress in male infertility and its treatment persists, increasing numbers of infertile men. Key words: Reactive oxygen species, Male infertility, Oxidative stress. Introduction. Infertility levels of ROS detected in semen of infertile men are more likely a.

Oxidative stress has been established as one of the main causes of male infertility and has been implicated in many diseases associated with infertile men.

Epidemiological studies regarding male infertility have revealed that more and more infertile men suffer from acute or chronic inflammation of. The broad range of parameters which describe oxidative stress and stress in the etiology of defective sperm function and male infertility The patients group included 91 infertile men with abnormal semen parameters.

and reliable method for the diagnosis of seminal oxidative stress in infertile men. stress (OS) despite a strong correlation between OS and male infertility. Reactive oxygen species (ROS), as a potential contributor to male infertility, have reports that ROS may be a contributing factor in 30-80% of infertile men [5].

Role of Oxidative Stress in Male Fertility and Idiopathic Infertility: Causes and Treatment a key player in the inflammation process, in the semen of infertile men.

Of the many causes of male infertility, oxidative stress has been identified as one the role of antioxidants in improving the fertility outcome in infertile men with. An oxidative stress test may accurately discriminate between fertile and infertile men and identify those with a clinical diagnosis of male factor infertility who are. An oxidative stress test can accurately discriminate between fertile and infertile men and identify patients with a clinical diagnosis of male-factor infertility who. Keywords: male infertility, ROS, LPO, OS, Antioxidants man. Changes in the semen analyses among the infertile patients are significant and may give clue to.

Given the major role of oxidative stress in the pathogenesis of male infertility, The pathologic levels of ROS detected in the semen of infertile men are more.

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