

عنوان مقاله:

Relationship of Azoospermia Factor (AZF) and Inhibin B Level in Patients with Non-Obstructive Azoospermia

محل انتشار:

مجله علوم دارویی و شیمی, دوره 6, شماره 8 (سال: 1402)

تعداد صفحات اصل مقاله: 13

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خلاصه مقاله:

Background: Non-obstructive azoospermia (NOA) is a challenging subset in management of infertile males. Microdeletion of the azoospermia factor (AZF) region located on long arm of the Y-chromosome (Yq11) is considered as the commonest observed genetic cause among infertile males. Inhibin-B was identified to be a more sensitive factor in evaluating azoo-spermic males than FSH and testicular biopsies.Patients and Methods: In this prospective casecontrol study, 100 participants were separated into two groups: group (A) consisted of Y0 patients with non-obstructive azoospermia, and group (B) consisted of Ya age-matched, fertile men having a child in the year prior to the study as a control group. Entire cases were subjected to full history taking and complete examination followed by laboratory analysis which comprised semen analysis, hormonal assays, including TSH, FSH, LH, EY, prolactin, total testosterone, and inhibin-B and detection of AZF micro-deletion.Results: PRL, FSH, and LH were significantly higher (P o. or A, <...ol, <o..ol), while total testosterone, inhibin-B level, TT/FSH, and inhibin-B/FSH ratios were significantly lower (p<o.oo) for each) among azoospermia cases compared with control group. The frequency of AZF micro-deletions among azoospermia cases was ۴-/γ۵ (ΔΨ.Ψ%). AZFc deletion was the most frequent type of Y-chromosome microdeletion. Conclusion: AZF and inhibin B levels were demonstrated to be significantly correlated in patients with nonobstructive azoospermia. Higher FSH, lower testosterone, and lower inhibin-B levels could be considered as risk .predictors for azoospermia, but could not be considered as risk predictor of AZF deletion among azoospermia cases

كلمات كليدى:

Azoospermia Y, chromosome Azoospermia Factor Inhibin, B

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