

Testicular Catch Up Following Adolescent Varicocele Repair

Introduction and Objective: Varicocele is present in 15% of the general population and it is affecting 40% of infertile men. Varicocele has risk effects on spermatogenesis and the results are oligo-astheno-spermia by various mechanisms. Sometimes varicocele is affecting the adolescents and there is controversy regarding repair. The objective: we investigated the effect of varicocele repair on testicular volume and growth in adolescents with varicocele and testicular atrophy.

Materials and Methods: In a 2-year period a prospective study was carried at Menofya University Hospitals on 23 adolescents with varicocele. Testicular atrophy was considered when there was a decrease in size by 20% than the other testicle size. These boys underwent varicocele surgery and follow-up was carried out 6, 18 months. Preoperative and postoperative testicular volumes were monitored and measured with Doppler scrotal ultrasonography.

Results: An IBM compatible personal computer was used to store and analyze the data and to produce graphic presentation of the important results. Calculations were done by means of statistical software package namely "SPSS, 19 edition". The significance of the results was estimated by student t, calculation of probability of chance "P-value". It is calculated using the Chi-Square value test, Mann-Whitney test and F test. We noted significant improvement in testicular volume with less than 20% disparity between the 2 gonads in the 23 patients

Conclusions: Our study confirms significantly increased testicular volume in many surgically treated boys and shows that physiological catch-up growth occurs in adolescents after varicocelectomy.