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JOURNAL ARTICLE

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Effect of low-dose testicular irradiation on sperm count and fertility in patients with testicular seminoma

G. M. Centola, J. W. Keller, M. Henzler and P. Rubin Department of Obstetrics and Gynecology, University of Rochester Medical Center, New York 14642.

The treatment of seminoma with radiation therapy risks transient infertility. We have prospectively followed eight patients with stage I seminoma of the testicle. All patients underwent radical orchiectomy of the affected testis. The mean age of the patients was 32.9 years (range 24-40). Each patient was treated with megavoltage radiation with a 10- or 18-MV linear accelerator. The remaining testicle was

shielded using a standard lead enclosure, and the mean testicular dose was 44 cGy (range 20.8-78.2). Semen specimens were delivered to the lab within 30 minutes of ejaculation. All specimens were analyzed using a computer-assisted sperm analyzer. Pretreatment parameters were within normal limits for all but one patient; one patient presented with a borderline normal sperm count at 18 and 22 x 10(6)/ml. Following treatment, there was a decrease in sperm count, detected at 3 months, to < 10 x 10(6)/ml (range 4.4- 8.6 x 10(6)) in all patients except one, who presented with an initial pretreatment count of 189 x 10(6)/ml, which decreased to 58 x 10(6)/ml at 3 months, $32 \times 10(6)/ml$ at 6 months, and rose to $325 \times 10(6)/ml$ by 12 months following treatment. Although the sperm count for this patient (D.L.) was within the normal range, the post-radiation sperm count was less than 20% of the pretreatment count. There was no difference in the motility at 3 months, the mean of which was 51.3%. One patient's (F.C.) wife conceived at 9 months following treatment, one at 12 months (J.R.), and one (J.S.) at 14 months, and all have delivered normal infants. (ABSTRACT TRUNCATED AT 250 WORDS)

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