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Identification of Chromosome Aberrations among Benign Prostatic Hyperplasia Patients in Tamilnadu, Southern India

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ABSTRACT 27 blood samples were collected from various hospitals to study the chromosomal aberrations (CA) in benign prostatic hyperplasia patients of Tamilnadu, Southern India. Equal number of normal healthy control blood samples has been collected by using questionnaire. After signing a consent form, volunteers provided blood sample (5 ml) to establish cell cultures at 52 h. For CA analysis, 100 metaphases from each subject were evaluated. Major chromosomal aberration like deletion, translocation, inversion and mosaic have been observed in experimental subjects. These types of CA were frequently observed in chromosomes 1, 6, 8, 13, 16, 18. In control, very low levels of major CA were observed compared to experimental subjects Identification of chromosome alterations may be helpful in devising better therapeutic strategies.