

Cytogenetic Damage in Offset Printing Press Workers Occasionally Exposed to Benzene

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KEY WORDS Benzene. Peripheral Blood Lymphocytes. Chromosomal Aberrations. Sister Chromatid Exchanges. Satellite Association. Micronuclei.

ABSTRACT Cytogenetic investigations on peripheral blood lymphocytes of 65 workers exposed to Benzene in offset printing press were undertaken. These were compared with an equal number of occupationally unexposed and matched controls in relation to age, sex, smoking and drinking habits. The chromosomal aberrations (CA), sister chromatid exchanges (SCE), satellite associations and micronuclei (MN), were analysed. All the parameters showed a significant increase ($P < 0.01$) in the exposed sample compared with the controls viz CA, 0.88-2.78, SCE, 3.72-9.08, SA, 4.53-11.75 and MN, 0.45-0.57. The occurrence of DG type satellite association was highest and that of 3 D type lowest

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