

Chromosome Damage in Nickle-Chrome Electroplaters

J.S. Yadav, A.S. Yadav and T. Sharma

KEYWORDS Mitotic Index. Chromosomal Aberrations. Sister Chromatid Exchanges. Satellite Associations. Electroplaters

ABSTRACT The type of electroplaters in the present study are the ones dealing with Nickel-chrome electroplating. Heparinized venous blood samples were collected from 68 electroplaters and equal number of matched controls. Genotoxicity was investigated by assaying mitotic index (MI), chromosome aberrations (CA), sister chromatid exchanges (SCE) and satellite associations (SA) in short term lymphocyte cultures. The mean frequency of MI was 5.77 ± 1.77 , CA 3.64, SCE, 6.40 ± 0.92 and SA 9.14, in the exposed group as compared to controls in which the mean frequencies of these parameters were 4.18 ± 0.85 , 0.86, 4018 ± 0.87 and 4.08 respectively.