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Study of Some Morphological, Physiological and Serological Parameters in Twins

Monica Singh, S.P. Singh, Harsurinder Kaur* and Puneet Pal Singh

Department of Human Biology, Punjabi University, Patiala 147 002, Punjab, India

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ABSTRACT The present study was conducted on 18 pairs of twins. The similarity method was used for zygosity determination. Eight pairs were found to be monozygotic and the rest dizygotic. Intra-pair differences regarding various morphological and physiological parameters were observed in these twins. MZ twin pairs showed very small differences for morphological parameters than DZ, confirming that MZ twins have similar genetic makeup. Physiological parameters, however, showed comparatively larger intra pair differences as they depend more on emotional state of the individual. The mean maternal age was found to be 28 years in our sample. The twinning tendency was found to be inherited in fifty percent of the cases with paternal transmission being more common (38.8%) than maternal. None of the mothers admitted the intake of fertility drugs. No heritable disease were detected though in a few cases one of the pair was reported to be more prone to some allergic or infections conditions.