



Category: Clinical Genomics

Parental Consanguinity Among Schizophrenia Patients

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Abstract

Some studies have reported parental consanguinity as a risk factor for schizophrenia. These findings need replication in different socio-cultural settings. Hence we studied inbreeding to examine its effect on susceptibility to schizophrenia. A case-control study was conducted among people living in a rural community at Turuvekere (SZ, n = 120; controls, n = 222). The prevalence of consanguinity was estimated from family history data ('self report'), followed by DNA analysis using SNPs (n = 384) ('DNA-based' rates) in order to add substantial reliability to our data. Self reported parental consanguinity was elevated among the patients (SZ: 10.71%, controls: 7.69%). Tests for normality of the DNA based estimates for coefficients of inbreeding ' f ' showed that ' f ' was not normally distributed. Mann-Whitney U test showed parental consanguinity rates are significantly elevated among the patients relative to the healthy individuals ($p = 0.035$). Our data suggest that schizophrenia is associated with higher parental consanguinity. Larger cross-sectional studies are warranted to validate our findings.

References

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