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Clinical Profile of Inversion Y in People of Gujarat, West India

Frenny J. Sheth¹, Ushma J. Shah², Manisha J. Desai¹ and Jayesh J. Sheth¹

¹*Institute of Human Genetics, "FRIGE House", Jodhpur Gam Road, Satellite,
Ahmedabad 380 015, Gujarat, India*

²*Department of Human Biology, Punjabi University, Patiala 147002, Punjab, India*

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ABSTRACT The present cytogenetic study was carried out on a total of 1,408 male subjects inhabiting West Indian state of Gujarat diagnosed for various clinical conditions. Inversion Y (inv(Y)) was found in 1.67% of Down syndrome, 55.56% of multiple congenital anomalies, 0.47% of ambiguous genitalia and 2.22% of recurrent pregnancy loss subjects; the overall incidence of the trait was 2.20%. The present results revealed that inv(Y), considered a normal variant, had heterogeneous distribution in different clinical conditions in people of Gujarat. Detailed molecular studies are desirable to validate this observation.