

ISSN 0972-3757

International Journal of

HUMAN GENETICS

© Kamla-Raj 2011

PRINT: ISSN 0972-3757 ONLINE: 2456-6360

Int J Hum Genet, 11(2): 99-104 (2011)

DOI: 10.31901/24566330.2011/11.02.05

Prevalence of Azoospermia Factor (AZF) Deletions in Idiopathic Infertile Males in North-East India

R. Mahanta*, A. Gogoi*, S.Roy*, I.K. Bhattacharyya* and P. Sharma**

**Cotton College, Guwahati, Assam, India*

***Pratiksha Hospitals, Guwahati, Assam, India*

KEYWORDS Azoospermia. Male Infertility. Oligozoospermia. Y-Chromosome Microdeletion

ABSTRACT The Y-chromosome harbors about 107 genes and pseudo genes. Microdeletions of the Y-chromosome long arm are the most common mutations in infertile males, where they involve one or more "azoospermia factors" (AZF a, b, and c). 100 consecutive infertile men were studied for AZF microdeletions by isolating Genomic DNA from peripheral blood and Polymerase Chain Reaction was carried with Genes: RBMY [RNA-binding motif (RBM), Y chromosome], BPY-2 (Testis-specific basic protein Y 2), STS markers: SY-84, SY-254. Out of 100 infertile males, five males exhibited AZF deletions. RBMY deletion was observed in one male, SY-84 deletion was observed in two males and SY-254 deletion was observed in two males. BPY-2 deletion was not observed in any of the males.