

INCIDENCE OF PRENATAL PERICENTRIC INVERSION OF CHROMOSOME 9 IN POPULATION OF WESTERN SERBIA

Ana Milosevic-Djeric¹ PhD; Milena Acimovic¹ PhD; Gordana Sosic² M.sc; Tanja Novakovic² M.sc.

¹Department of Gynaecology and Obstetrics, Hospital Centre Uzice, Uzice, Serbia, ana.mdjeric@gmail.com

²Clinic of Gynaecology and Obstetrics, Clinics Centre Kragujevac, Kragujevac, Serbia

Abstract: *The pericentric inversion of chromosome 9 is the most common heteromorphism in the general population with frequency 1-3%. The aim of our study was to determine incidence of prenatal pericentric inversion of chromosome 9 in western region of Serbia and to assess the perinatal outcomes of such fetuses. We investigated 949 fetus karyotypes from amniotic fluids. Results revealed that pericentric inversion of chromosome 9 (p11;q12)/(p11;q13) is the most common structural chromosome aberration. Inversion was found in 24 cases with incidence of 2,5 %. The frequency of the pericentric inversion of chromosome 9 in prenatal samples of population in western Serbia is in accordance with the expected incidence in the human population. Our data support the clinical reports that inversion of chromosome 9 is associated with a normal outcome.*

Keywords: *inversion, chromosome 9, incidence*