

**A CASE REPORT OF A HIGH LEVEL 46,XX/46,XY TRUE CHIMERISM WITHOUT CLINICAL EFFECT IN A HEALTHY FEMALE WHO GAVE BIRTH TO HEALTHY TWINS AFTER IVF**

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We report a case of high level 46,XX/46,XY chimerism in a healthy woman who was karyotyped prior to IVF. The phenotype of the proband was that of a normal woman with an unambiguously female external and internal genitalia. The male cell line was present at a proportion of 20 - 50 % in other six examined tissues beside blood. STR markers analysis proved the tetragametic origin of the chimerism. After the third IVF cycle and transfer of 2 embryos our proband gave birth to healthy female twins.