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Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 62249

Manuscript Type: CASE REPORT

New mechanism of partial duplication and deletion of chromosome 8: A case report and review of literature

Yan J *et al.* new Mechanism of Chromosome 8

Abstract

BACKGROUND

During meiosis, the recombination of homologous chromosomes produces some new heritable mutations, which are the basis of biological evolution and diversity. However, when there is pericentric inversion of chromosomes, unbalanced gametes will be formed in the process of germ cell meiosis.

CASE SUMMARY

A 23-year-old pregnant woman at 25 weeks of gestation wanted to stop her pregnancy

Study on the Mechanism of Partial Duplication and Deletion of Chrc



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Author: Minh-Tuan Huynh, Anne-Sophie Ritea... **Publish Year:** 2021

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As noted above, associated features may be extremely variable. However, in many **cases**, there are growth delays during fetal development (intrauterine growth retardation) as well as after birth (postnatal growth retardation). The syndrome is also commonly associated with mild mental retardation, although more severe retardation may be seen in some instances. In addition, other cases have been described in which affected individuals have normal intelligence. Monosomy 8p may also be characterized by delay...

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FISH analysis confirmed the 8p inverted **duplication deletion** syndrome. Moreover, polymorphic DNA marker analysis demonstrated that the derivative **chromosome 8** was of maternal origin. FISH analysis ...

Author: Minh-Tuan Huynh, Anne-Sophie Riteau, ... **Publish Year:** 2021

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As noted above, associated features may be extremely variable. However, in many cases, there are **growth delays** during **fetal development (intrauterine growth retardation)** as well as after birth (**postnatal growth retardation**). The syndrome is also commonly associated with mild mental retardation, although more severe retardation may be seen in some instances. In addition, other cases have been described in which affected individuals have normal intelligence. Monosomy 8p may also be characterized by delay...

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largest to smallest. One **chromosome** from each of the 23 pairs comes from the father and the other from

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