

تاریخ دریافت ۸۳/۱۱/۰۷، تاریخ پذیرش ۸۴/۱/۱۷

GTG

/

/

()

E-mail: Davood_omrani@umsu.ac.ir

.()

()

non-

()

disjunction

.()

()

.() ()

.()

I

)

.()

(

.()

.()

.()

.()

.()

.()

¹ John Langdon Down

² Bleyer

³ Waardenberg

⁴ Jerome Lejeune

⁵ Patricia Jacobs

⁶ Translocation

⁷ Partial Trisomy

⁸ Critical Region

/

()

()

()

GTG

PMI

)

(GIBCO

/

()

()

(/) (/)

(/) (/)

(/) (/)

/) (/) (/)

(/) (/) (/)

(/)

:

(/)

/ / /

/ / /

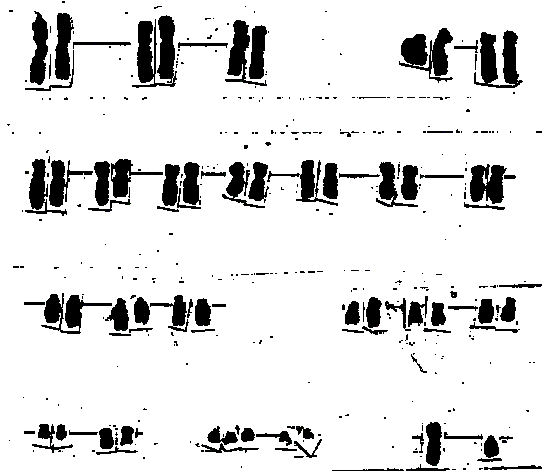
(/)

(/)

novo de

()

de novo



XY +

(M/F= /)

/ /

/ M/F

/

)

(()

(/)

()

()

()

()

()

References:

1. Down JLH: Observations on an Ethnic Classification of Idiots. Lond Hosp Clin Lec Rep, 1866, 3: 259-262.
2. Nora JJ, Fraser FC: Medical Genetics: principles and practice. 3rd Ed, Philadelphia, Lea and Febiger, 1989: 28-35.
3. Walgate R: French influence on Britain. Nature, 1985, 21: 313 (6004) : 618.
4. Hamerton JL: The William Allan Memorial Award: Presented to Patricia A Jacobs, D.Sc., at the annual meeting of the American Society of Human Genetics, Dallas, October 28-31, 1981. Am J Hum Genet, 1982 Sep; 34(5): 683-688.
5. Connor M, Ferguson-Smith M: Medical Genetics. 5th Ed, Malden USA, Blackwell Science LTD, 1997: 118-120.
6. Rajangam S, Hegde S, Thomas IM: Down syndrome associated malformations. Ind J Med Sci, 1997, Oct; 51(10): 390-393.
7. Roach MA, Barratt MS, Miller JF, Leavitt LA: The structure of mother-child play: young children with Down syndrome and typically developing children. Dev Psychol, 1998, 34(1): 77-87.
8. Pellerin D, Rethore MO, Pellerin P: Aged parents and aging handicapped persons: a new situation, an attempt to respond. Bull Acad Natl Med, 2000, 184(1): 51-58.
9. David P, Costa ACS: Down syndrome and genetics-a case of linked histories. Nature Reviews Genetics OP, published online 10 January 2005; doi: 10.1038/nrg 1525
10. Sigman M, Ruskin E, Arbeile S, Corona R, Dissanayake C, Espinosa M, Kim N, Lopez A, Zierhut C: Continuity and change in the social competence of children with autism, Down syndrome, and developmental delays. Monogr Soc Res Child Dev, 1999, 64(1): 1-114.
11. Vintzileos AM, Ananth CV, Fisher AJ, Smulian JC, Day-Salvatore D, Beazoglou T, Knuppel RA: An economic evaluation of second-trimester genetic ultrasonography for prenatal detection of down syndrome. Am J Obstet Gynecol, 1998, Nov; 179(5):1214-1219.
12. Wald NJ, Watt HC, Haddow JE, Knight GJ: Screening for Down syndrome at 14 weeks of pregnancy. Prenat Diagn, 1998, 18(3): 291-293.
13. Huether CA, Ivanovich J, Goodwin BS, Krivchenia EL, Hertzberg VS, Edmonds LD, May DS, Priest JH: Maternal age specific risk rate estimates for Down syndrome among live births in whites and other races from Ohio and metropolitan Atlanta, 1970-1989. J Med Genet, 1998, Jun; 35(6): 482-490.
14. Stoll C, Alembik Y, Dott B: Impact of routine fetal ultrasonographic screening on the prevalence of Down syndrome in non aged mothers. Ann Genet, 1998, 41(1): 27-30.
15. Lai FM, Yeo GS: Down syndrome screening in Singapore--the effectiveness of a second trimester serum screening policy modelled on 29,360 pregnancies in KK Women's and Children's Hospital. Singapore Med J, 1998, Feb; 39(2): 69-75.

:() , - : , .
: , .
- : , .
:() , .