

INTRODUCTION

What does the word Down syndrome mean? The word "syndrome" means a group of symptoms or physical signs that appear on more than one child repeatedly and have a specific cause, and it was discovered in 1959 by Jérôme Lejeune that it is due to the extra chromosome 21.

What is the incidence of Down syndrome?

The probability of the birth of a child with Down syndrome increases with the increase in the age of the woman, knowing that 80% of children are born to mothers whose age does not exceed 35 years because most births generally occur under this age



Genetic Causes

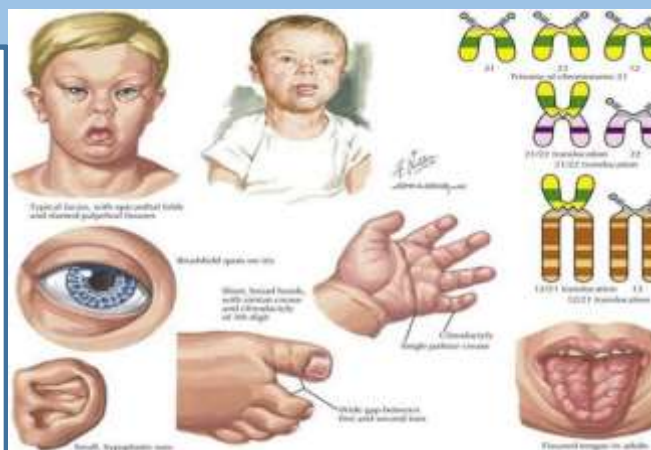
- 1- Trisomy 21: Here, chromosome 21 is repeated three times instead of twice in each cell, making the number of chromosomes 47 instead of 46, and this is the predominant type, and it is about 95% of cases of Down syndrome.
- 2- Chromosome transfer: Here chromosome number 21 separates and attaches to another chromosome, and this type is 4% of cases of Down syndrome.
- 3- Mosaic type: In this type, which constitutes 1% of cases of Down syndrome, there are two types of cells in the body of the affected person, some of them contain the normal number of chromosomes, i.e. 46, and others contain 47 chromosomes.

Signs and symptoms

- A flattened face
- Almond-shaped eyes that slant up
- A short neck
- Small ears
- A tongue that tends to stick out of the mouth
- Tiny white spots on the iris of the eye
- Small hands and feet
- A single line across the palm of the hand
- Poor muscle tone or loose joints
- Shorter in height
- "health problem"

Down syndrome varies in severity among its sufferers,

- Hearing loss
- Obstructive sleep apnea
- Ear infections
- Eye diseases
- heart defect present at birth
- digestive disorders



References

1. <https://sotor.com/%D8%A3%D9%86%D9%88%D8%A7%D8%B9>
2. <https://www.mayoclinic.org/ar/diseases-conditions/down-syndrome/symptoms-causes/syc-20355977?fbclid=IwAR0Bq>

Summary

- Discovering the features and talents of a child with Down syndrome facilitates the process of communicating with him and integrating him with others from his peers while developing his abilities and capabilities.
- Knowing the weaknesses and defects of the down child's personality contributes to developing the correct program to modify his behaviour and improve his mental and social abilities.
- Dealing with the Down syndrome child steadily without changing the method of treatment and not notifying him that he suffers from any defect, especially as this contributes to the speed of his confidence in those around him and his adaptation to the outside community and better communication.