



ROCKY MOUNTAIN
DOWN SYNDROME
ASSOCIATION

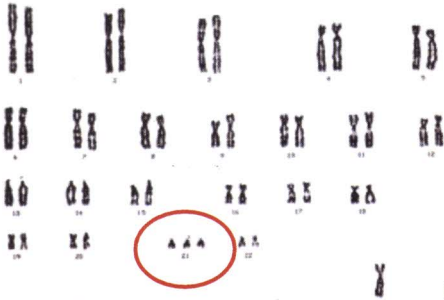
Down syndrome is a genetic disorder that occurs in about 1 in 691 babies. It is caused by the presence of 3 copies of chromosome 21 instead of the typical 2 copies.

There are three types of Down syndrome:

-Trisomy 21 - ~ 95% - In Trisomy 21, the 21st chromosome pair does not split and a double-dose goes to the egg or sperm. An estimated 95 percent to 97 percent of the extra chromosome is of maternal origin.

-Translocation - ~3-4% - In this type, an extra part of the 21st chromosome gets stuck onto another chromosome. In about half of these situations, one parent carries the extra 21st chromosome material in a "balanced" or hidden form.

-Mosaicism - ~1-2% - In mosaicism, the person with Down syndrome has an extra 21st chromosome in only some of the cells but not all of them. The other cells have the usual pair of 21st chromosomes.



Trisomy 21 karyotype



Staci

Did you know?

- There are approx. 350k-400k people nationwide with Down syndrome.
~ 4 million worldwide.
- Down syndrome occurs in people of all ethnic, racial, religious and socio-economic groups.
- People with Down syndrome go to college, have jobs, drive, get married, live independently and so much more.

