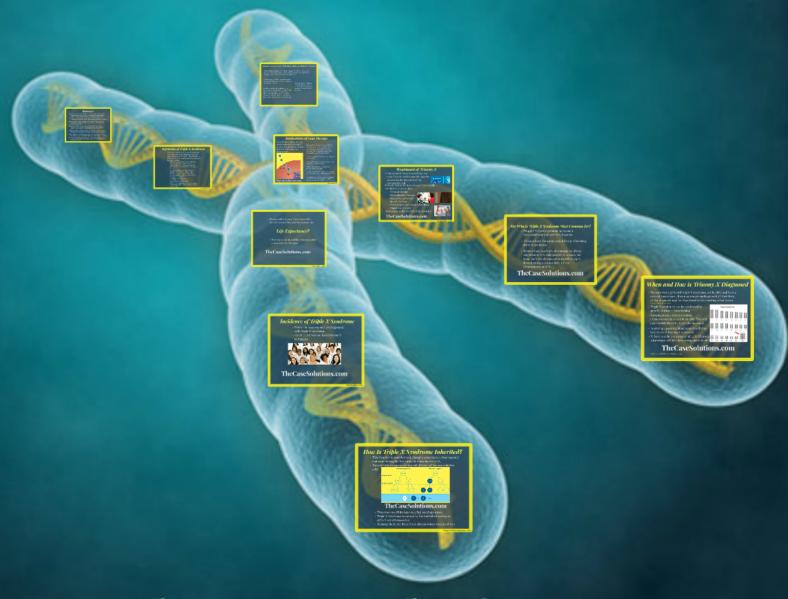
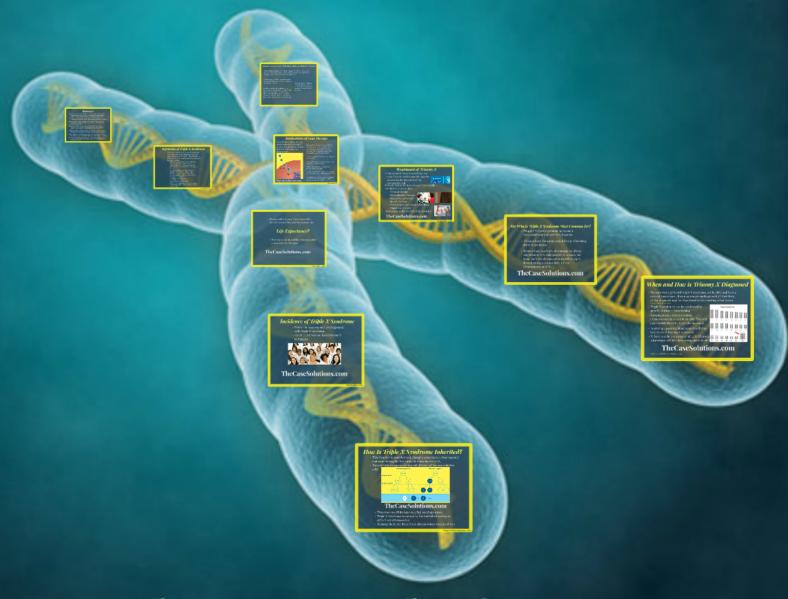
Triple Point Technology



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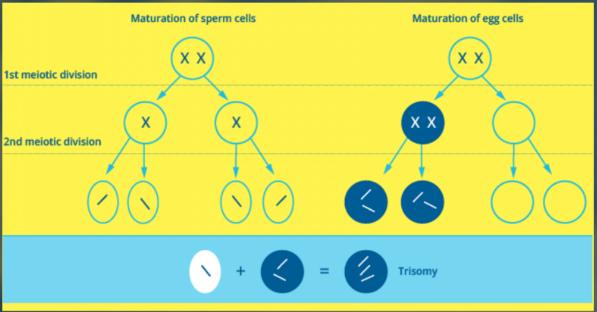
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How Is Triple X Syndrome Inherited?

• This disorder is not inherited, though comes from a chromosomal mutation during the formation of reproductive cells.

• This mutation happens during cell division of the reproductive

cells.



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- This error in cell division is called nondisjunction,
- Triple X Syndrome is caused by the individual having an extra X sex chromosome.
- Meaning there are three X sex chromosomes instead of two.

When and How is Trisomy X Diagnosed

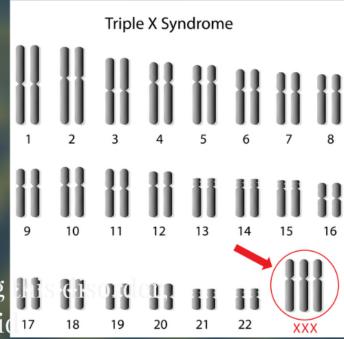
 Because many girls with triple X syndrome are healthy and have a normal appearance, they may remain undiagnosed all their lives, or the diagnosis may be discovered while checking other issues. (Mayo Clinic Staff, 2015)

 Triple X syndrome can be confirmed by genetic testing — Karyotyping

• Karyotyping is a test to examine chromosomes in a sample of cells. This test can identify the extra X sex chromosome.

 Analysing a patients blood sample will also help to see if trisomy X is present

• If there may be any concern of a child having a karyotype will be taken, using amniotic fluid



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Points 2-4 (Haldeman-Englert, 2014)

Incidence of Triple X Syndrome

- Every 1 in 1000 women are diagnosed with triple X syndrome
- About 32,507 women have trisomy X in Canada



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For Who is Triple X Syndrome Most Common for?

- Trisomy X is only common for women. Men could never inherit this disorder.
- All races have the same probability of inheriting triple X syndrome.
- Women have two X sex chromosomes, this is why trisomy X is only present in women, for men one Y sex chromosome aswell as one X. though women can not have a Y sex chromosome, only X.

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• Women with trisomy X are expected to live full normal lives just like anyone else

Life Expectancy?

• There is no shortened life expectancy that comes with the disorder.

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Treatmeant of Trisomy X

• Unfortunately there is no full cure for triple X syndrome because the disorder stems from the formation of the reproductive cell

Physiotherapy



- reproductive cell.

 Patients that suffer from trisomy X are usually involved in some or all of:
 - -Physical therapy
 - -Developmental therapy
 - -Occupational therapy
 - -Speech therapy
 - -Psychological therapy or councilling
 - -Supportive therapy

(depending on the severity of the disorder)



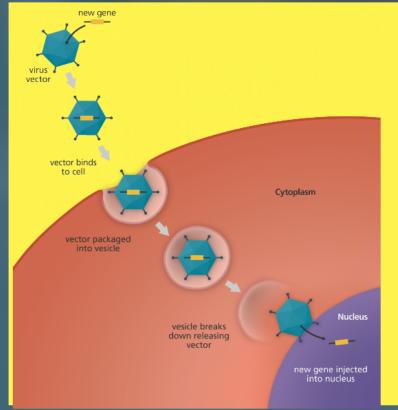






Implications of Gene Therapy

Gene therapy would be the most useful treatment for trisomy X because it deals with the changing of genetic information and chromosomes.



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Because gene therapy involves making changes to genes in the chromosomes, it raises many unique ethical and social concerns. The ethical/social questions surrounding gene therapy include:

- -How can "good" and "bad" uses of gene therapy be distinguished?
- -Who decides which traits are normal and which constitute a disability or disorder?
- -Will the high costs of gene therapy make it available only to the wealthy?
- -Could the widespread use of gene therapy make society less accepting of people who are different?
- -Should people be allowed to use gene therapy to enhance basic human traits such as height, intelligence, or athletic ability?