In some cases, the Xs or the X chromosome and Y chromosome fail to pair and fail to exchange genetic material. Occasionally, this results in their moving independently to the same cell, producing either an egg with two Xs, or a sperm having both an X and a Y chromosome. When a sperm having both an X and a Y chromosome fertilizes an egg having a single X chromosome, a normal Y-bearing sperm fertilizes an egg having two X chromosomes, an XXY male is conceived.

http://www.nichd.nih.gov/publications/pubs/klinefelter.cfm

This is a picture illustrating the side effects of the testosterone therapy of a person with Klinefelter’s Syndrome. This person had pilers in his right leg for a year due to the testosterone treatment. The right leg did not respond to various topical treatments, accompanied by lymphomas of the right leg.

http://www.antenataltesting.info/images/karyotype_klinef.jpg

This is a picture of the bone density of an individual with Klinefelter’s syndrome. Klinefelter’s syndrome is one of the most common chromosomal abnormalities. This disease only occurs in males and is caused by an extra X chromosome. Instead of the normal 46XY, their genetic makeup is 47, XXY. Egg and sperm cells only have 23 chromosomes. One inherited from the dad, and the other from the mother.


Klinefelter’s Syndrome is a chromosomal disorder associated with a shortage of androgen and osteoporosis. Longitudinal bone density and no quantifiable bone sound data can be accessible to those patients after longterm testosterone replacement therapy.

http://find.galegroup.com/itx/retrieve.do?contentSet=IAC&callistoContentSet=NPD&query=Klinefelter's+Syndrome=RESULT_LIST&sort=DateDescend&docId=A163478673&callistoContentSet=NPD&resultListType=Documents&tabID=T002&prodId=EAIM&searchId=R2&retriever=ng&veFormat=PDF&currentPosition=16&userGroupName=txshracd2503

This is a picture of the bone density of an individual with Klinefelter’s syndrome. Klinefelter’s syndrome is one of the most common chromosomal abnormalities. This disease only occurs in males and is caused by an extra X chromosome. Instead of the normal 46, XY, their genetic makeup is 47, XXY. Egg and sperm cells only have 23 chromosomes. One inherited from the dad, and the other from the mother.

http://www.antenataltesting.info/images/karyotype_klinef.jpg