**Secondary conditions associated with being XXY/Klinefelter Syndrome**

Metabolic Syndrome (diabetes)

<http://care.diabetesjournals.org/content/29/7/1591.full>

The role of hypogonadism in men

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3955327/>

Osteopenia (symptomless reduced bone density)

<http://www.webmd.com/osteoporosis/tc/osteopenia-overview>

Osteoporosis (low bone density – high risk of fracture/breaks)

<http://www.nhs.uk/Conditions/Osteoporosis/Pages/Introduction.aspx>

DEXA Bone Density Scan for identifying Osteopenia/Osteporosis

<http://patient.info/health/DEXA-Scan>

Alcohol = lower testosterone and oestrogen (bad for XXY’s)

<http://stopdrinkingalcohol.com/beer-hops-estrogen/>

Seizures

<http://www.theatlantic.com/health/archive/2015/07/split-brain-research-sperry-gazzaniga/399290/>

Cardiovascular disease

[http://www.researchgate.net/publication/245032462\_Klinefelter's\_syndrome\_and\_cardiovascular\_disease](http://www.researchgate.net/publication/245032462_Klinefelter%27s_syndrome_and_cardiovascular_disease)

Cardiovascular abnormalities

<http://www.ncbi.nlm.nih.gov/pubmed/23092857>

Increased risk of stroke

[http://stroke.ahajournals.org/content/early/2015/06/18/STR.0000000000000070.full.pdf+html](http://stroke.ahajournals.org/content/early/2015/06/18/STR.0000000000000070.full.pdf%2Bhtml)

Possible complications

<http://www.nhs.uk/Conditions/klinefelters-syndrome/Pages/Introduction.aspx>

Teeth problems

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1686171/>

Breast cancer

<http://www.macmillan.org.uk/information-and-support/breast-cancer/breast-cancer-in-men/diagnosing/causes-and-risk-factors/risk-factors-and-causes-of-breast-cancer-in-men.html>

Breast cancer risk from high oestrogen

<http://www.telegraph.co.uk/news/11598439/Men-with-high-oestrogen-more-likely-to-develop-breast-cancer.html>

Gynecomastia

<http://www.medicinenet.com/gynecomastia/article.htm>

XXY male with breast cancer

<http://www.everydayhealth.com/news/lump-my-left-breast-steves-story-survival/>