

Ullrich-Turner Syndrome (monosomy X)

1. Does this disease result from errors during mitosis or meiosis?

Error occurs during meiosis (Texas Department of Health Services).

2. What stage(s) of cellular division does this error occur?

Nondisjunction can occur in meiosis I or meiosis II (Texas Department of Health Services).

3. What are the effects of this error to the organism?

Stunted height development, kidney problems, high blood pressure, heart problems, overweight, hearing difficulties, diabetes, lack of sexual development, thyroid problems, extra skin on neck creating folds, low hairline at back of neck, drooping eyelids ears are shaped differently and lower than usual, abnormal bone development, many moles on skin, and extra fluid in the hands and feet (Kidshealth.org).

Sources:

Kidshealth.org

http://kidshealth.org/teen/diseases_conditions/genetic/turner.html

Texas Department of State Health Services

<https://www.dshs.state.tx.us/birthdefects/risk/risk25-turner.shtm>