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Allosomal Disorder.

Presentation · May 2025

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Jeno baptis melaine Noble Jebakumar
Ilia State University

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ALLOSOMAL DISORDER.

JENO BAPTIS MELAINE NOBLE JEBAKUMAR.

SUPERVISED BY:
PROF. NINO BERIASHVILI.

FACULTY OF NATURAL SCIENCE AND MEDICINE.

ILIA STATE MEDICAL UNIVERSITY
GEORGIA, TBILISI.

MAY 2025.



CONTENTS

1) KLINEFELTER'S SYNDROME

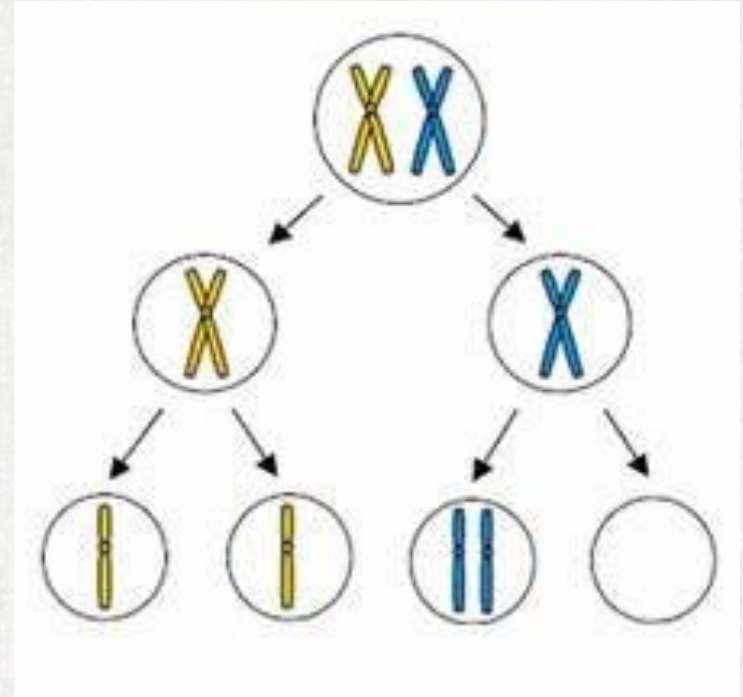
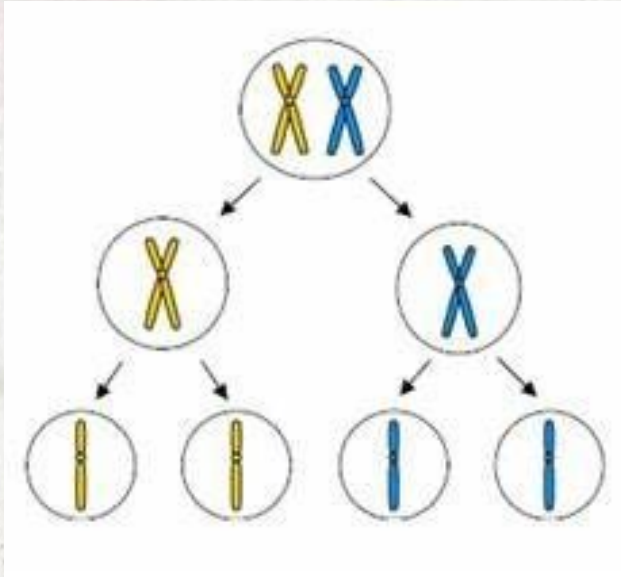
2) TURNER'S SYNDROME.

- KARYOTYPE.
- INHERITANCE.
- SYMPTOMS.
- DIAGNOSIS.
- MANAGEMENT.

INTRODUCTION.

NON-DISJUNCTION:

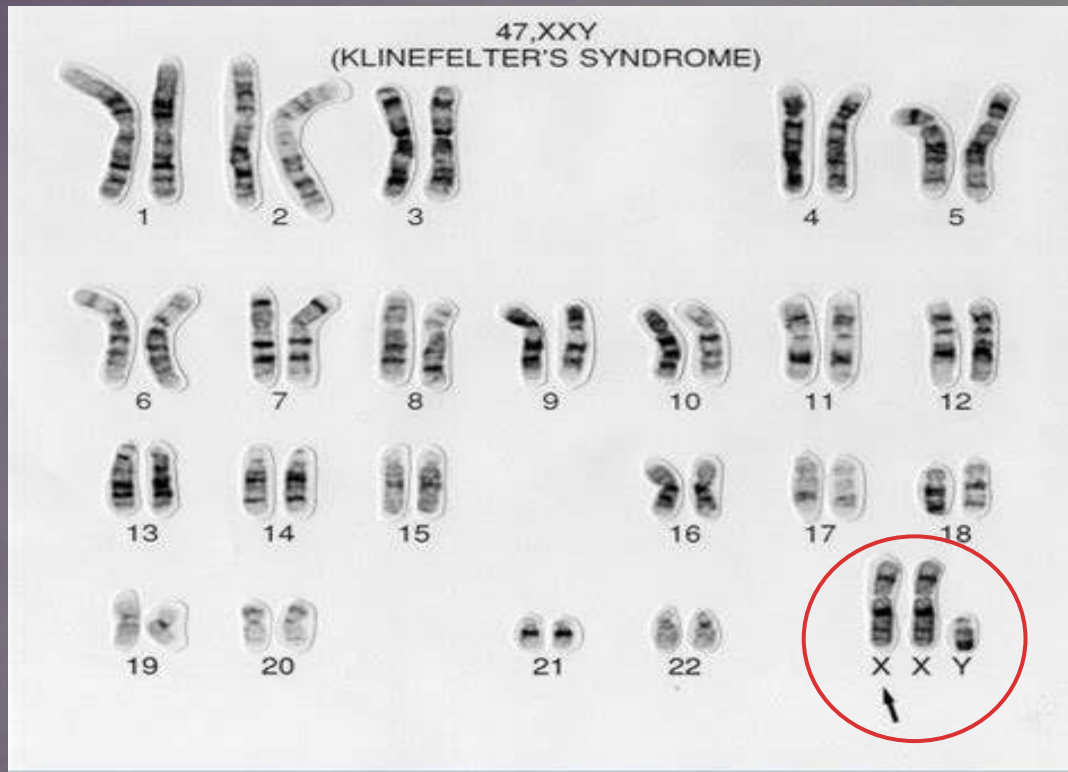
NORMAL:



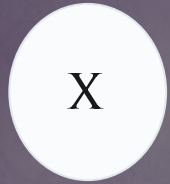


KLINFELTER'S SYNDROME. (XXY MALES)

KARYOTYPE



NORMAL CONDITION.



OVAM

SPERM



KLINEFELTER'S SYNDROME.

SINGLE DIPLOID GAMETE.



DIPLOID
OVAM

SPERM



(XXY)



OVAM

DIPLOID
SPERM



DOUBLE DIPLOID
GAMETE



DIPLOID
OVAM

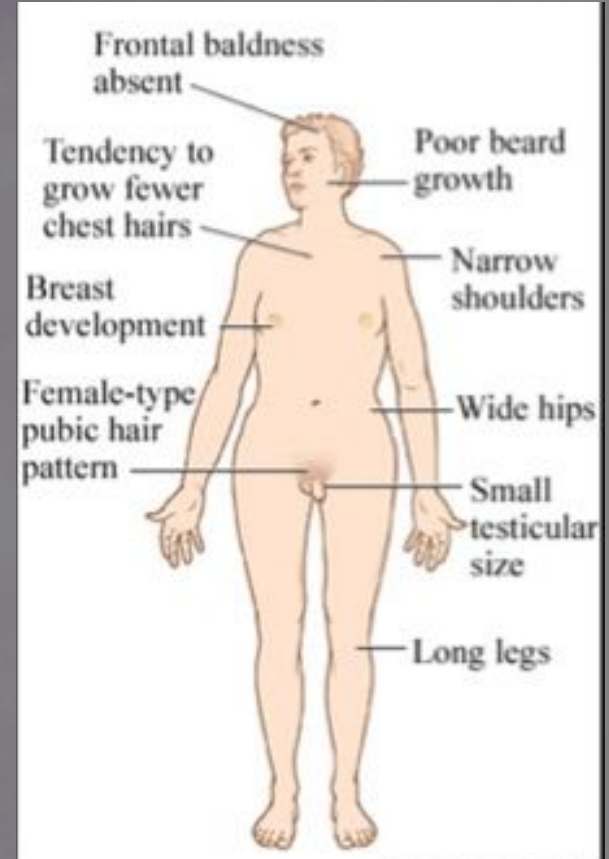
DIPLOID
SPERM



(XXXY)

SYMPTOMS:

Gynecomastia



DIAGNOSIS:

- PHYSICAL EXAMINATION.
- KARYOTYPE ANALYSIS (DETECTS EXTRA X CHROMOSOME).
- HORMONE TESTING (LOW TESTOSTERONE, HIGH FSH/LH).

MANAGEMENT:

1)



2)



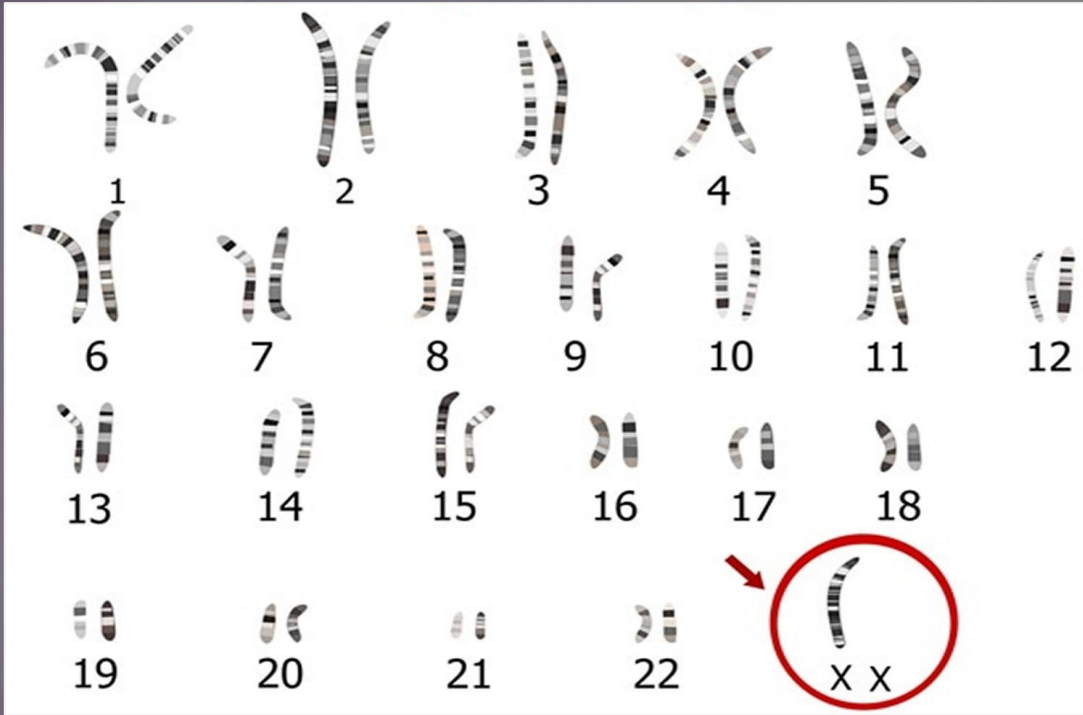
3)



The background of the slide is a light pink color with a subtle, mottled texture. Purple leaves with serrated edges are scattered around the perimeter, appearing to frame the central text. The leaves have a detailed vein pattern and a slight gradient of purple color.

TURNER'S SYNDROME. (XO FEMALES)

KARYOTYPE.



NORMAL CONDITION.



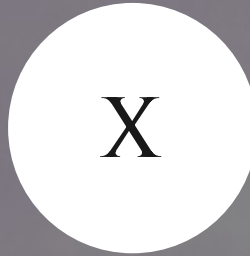
OVAM

SPERM



TURNER'S SYNDROME.

PATERNAL.

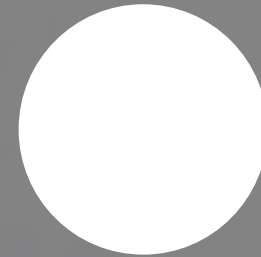


OVAM

DEFECTED
SPERM

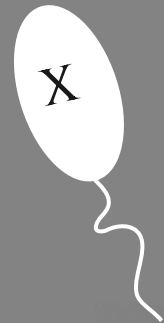


MATERNAL.



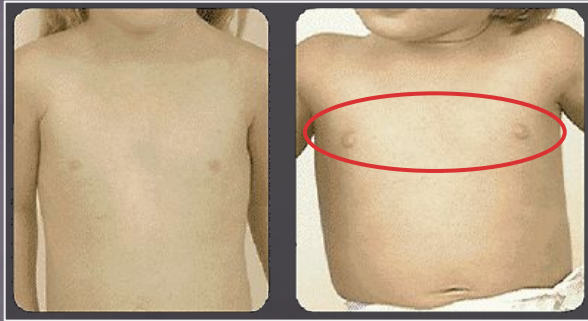
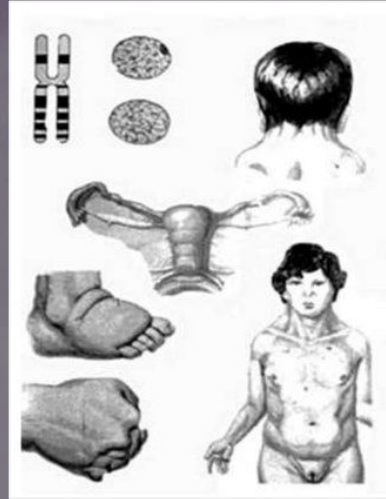
DEFECTED
OVAM

SPERM

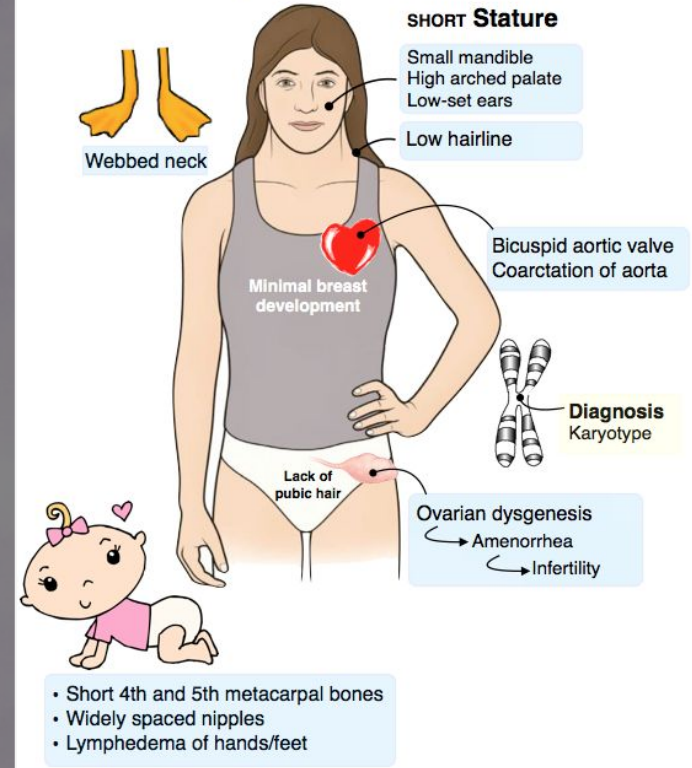


(44A + XO)

SYMPTOMS:

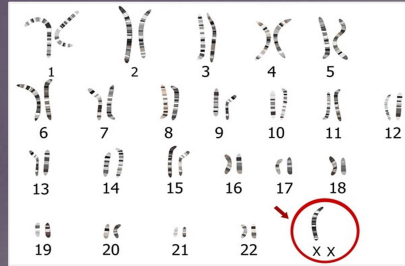


Turner Syndrome 45 XO



DIAGNOSIS:

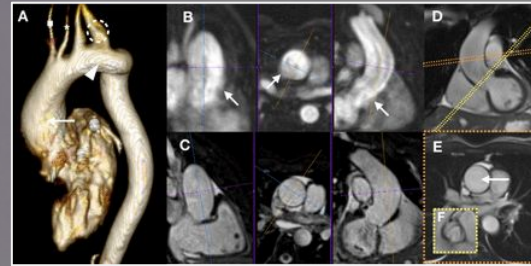
1) KARYOTYPE ANALYSIS.



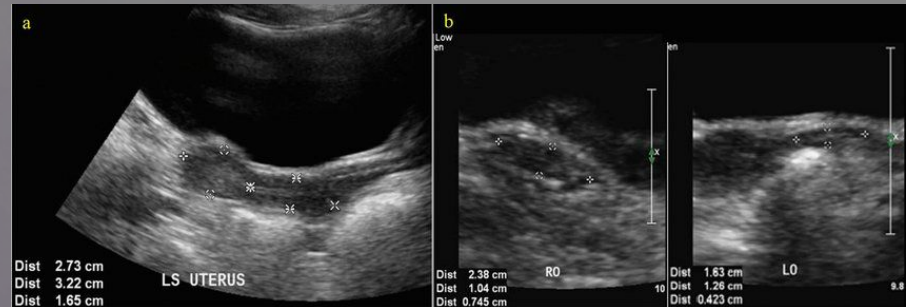
3) HORMONE TESTING. (LOW ESTROGEN, HIGH FSH/LH)



2) ECHOCARDIOGRAM (TO CHECK FOR HEART DEFECTS).

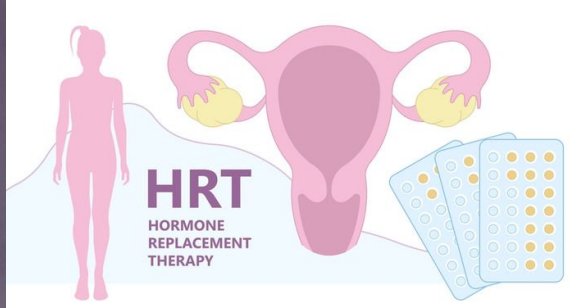


4) ULTRASOUND FOR REPRODUCTIVE ORGAN DEVELOPMENT.

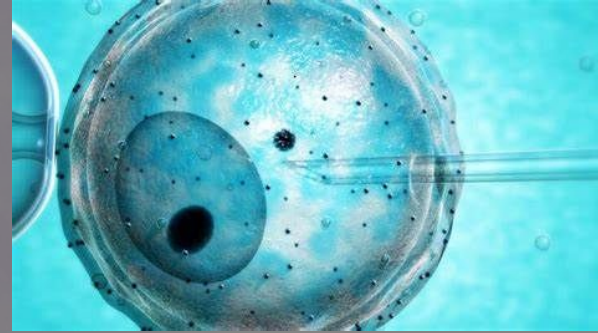


MANAGEMENT:

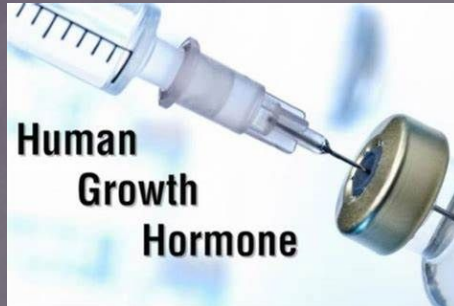
1)



2)



3)



4)



5)



A woman with long dark hair, wearing a white shirt and a brown skirt, is sitting on the ground under a large, leafy tree. She is holding an open book and appears to be reading. The ground is covered with a dense field of small yellow flowers. The background shows a sunset or sunrise with a warm orange glow and silhouettes of palm trees in the distance. The text is overlaid on a semi-transparent white rounded rectangle in the upper left portion of the image.

I APPRECIATE YOUR TIME.
STAY HEALTHY BY TAKING IN
CONSIDERATION OF ALL THOSE
LITTLE LIVES.