NURSING GRAND ROUND

UB | 2024 | NURS 325

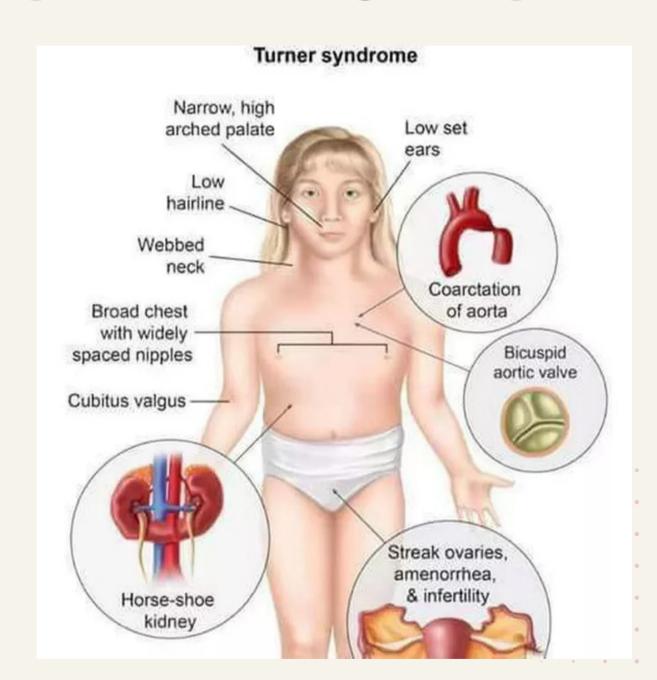
THE PATIENT

- Lily
- 16 year old female
- History of:
 - Short stature
 - Delayed puberty
- Reccently moved to rual area
 - limited access to healthcare information
- Hasn't received medical attention since 1 years old
- Home dynanic
 - Behind on immunizations
 - One of 8 children
 - Low socioeconimc family
 - Homeschooled



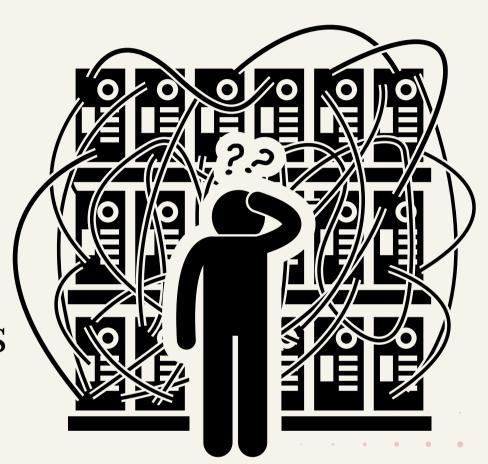
PRESENTING SYMPTOMS

- Vital Signs: Within normal range.
- Physical Examination: Short stature, webbed neck, and a shield-shaped chest.
- Developmental Assessment: Absence of breast development, menstruation, and delayed onset of puberty.
- Health History: Lily has not been to the doctor since she was one year old and needs to catch up on immunizations. She is one of 8 children in a low socio-economic family.



COMPLICATIONS

- Tuner Syndrome
 - Short Stature
 - Delayed puberty
 - Potential Heart & Kidney Abnormalities
 - Infertility
- Lack of medical attention since eary childhood adds complexity to her healthcare needs



TREATMENT PLAN



Growth Hormone Therapy



Estrogen Replacement Therapy (ERT)



Fertility Counseling



Catch-Up Immunization



Cardiac & Renal Monitoring



Psychosocial Support









THE GENETIC COUNSELOR & CARDIOLOGIST

Genetic

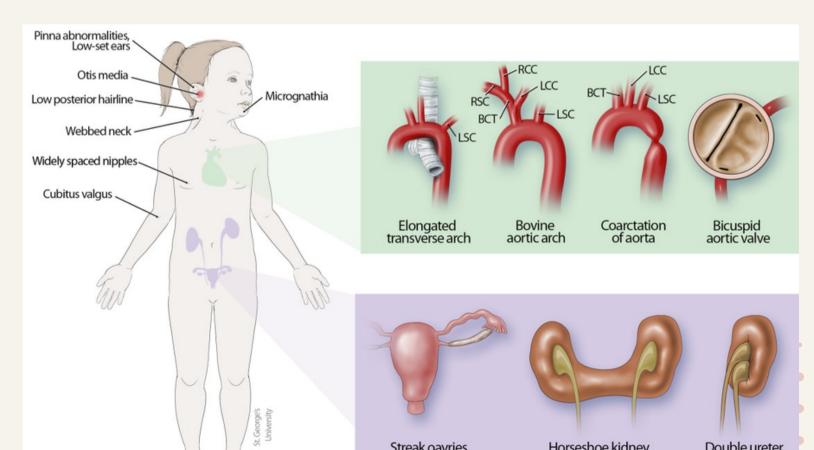
- Genetic Basis of Turner Syndrome
- Recurrence Risk
- Family Planning

Renal

- Structural Malformation
- Risk of UTI
- Kidney Stones
- Renal Failure

Cardiac

- Narrowing of the Aorta
- Arortic Dilation
- Heart MurMur
- High Blood Pressure
- Heart Failure



THE PEDIATRIC ENDOCRINOLOGIST

- Girls with Turner syndrome are entitled to receive high-dose growth hormone therapy as soon as it becomes apparent that they're not growing normally
 - It will help make them taller in adulthood.
- Growth hormone therapy is a daily injection, started at around 5 or 6 years of age or later.
- Estrogen replacement therapy is usually started around the time of normal puberty
 - In girls, this is around 11 years old
 - It may be recommended that estrogen replacement is started earlier in gradually increasing doses
 - Treatment will be tailored to the specific needs of each girl.
- Estrogen triggers the changes that usually happen during puberty, such as breast development.
 - It's important for the health of the womb and bones (protecting against osteoporosis).
 - It can be given as a gel, tablet or patch. Low doses are used to start with and gradually increased to adult levels with time and age, to mimic normal puberty.



THE REPRODUCTIVE ENDOCRINOLOGIST/ FERTILITY SPECIALIST

Potential Impact

on fertility

- UnderdevelopedOvaries
- X Chromosomes is patrialy or complelty missing









Fertiliy Perservation

Options

- Egg Freezing
- Embryo Cryopresevation
- Ovarian Tissue Cryoprreseservation
- Hormone Replacement Thereaoy

THE IMMUNIZATION NURSE



Vaccinations Needed up to 16 years old:

- DTap, Hib and Pneumococcal Dose 4, if not given
- Covid vaccine (if low-risk)
- Influenza/ Flu every year
- Hep A (2 doses) if not given
- MMR and chickenpox Dose 1 & 2
- HPV
- TDaP1
- Meningococcal ACWY
- Meningococcal B
- https://www.cdc.gov/vaccines/schedules/easy-to-read/child-easyread.html



THE PEDIATRIC NURSE



General medical care required for Turner Syndrome:

- Physical growth and developmental monitoring
- Hormone therapy may be recommended
- Regular screenings of all systems, including heart and kidney
- Vision and hearing screenings
- Emotional support (therapy, support groups, finding people with Turner Syndrome, etc)

• Regular monitoring, proper treatment and emotional support help patient manage and thrive!



Turners Syndrome Society

- Provide educational materials, support groups and advocacy efforts
- Local and online support groups
- https://turnersyndromefoundation.org/living/

Vocational Training



- Prepare for employment opportunities for their skills and capabilities
- Career counseling
- Accommodations

Financial Assistance

- Financial assistance programs (disability benefits or grants)
- Can be used towards medical expenses, therapy, and other necessary supports
- https://turnersyndromefoun dation.org/living/resources/r eimburse-assist/





PSYCHOCOCIAL SPECIALIST



Many with Tuner Syndrome Expeirence lower self- esteem and self cocept than those who do not have TS



- Due to this it would be important to provide counseling/ therapy for Lilly to have someone she can speak to.
- Outside of therapy, it is encouraged that the parents engage in conversations with their child that addresses the way she feels about herself.
- Allow the patient to express her thoughts and concern about her future fertility, as this is affected by Turner Syndrome.
- Since she is homeschooled I would also recommend her parents find a group where their child can interact with others who have TS