Turner's Syndrome and its Ear, Nose & Throat Manifestations



Dr. Deirdre Fitzgerald

MB BCh BAO BMed Sc IMRCSI DOHNS
Senior Registrar Otolaryngology
Royal Victoria Eye & Ear Hospital

TCGI Annual Conference, Naas, 13th April 2013

Introduction

Turner's Syndrome

1/2500 female live births

Stature & gonads almost universally affected

 Many other organ systems affected to varying degrees and at different stages of life

Introduction

Turner's Syndrome

Multi-disciplinary approach to management is therefore essential



Diagnosis

Diagnosis of Turner syndrome: - in utero

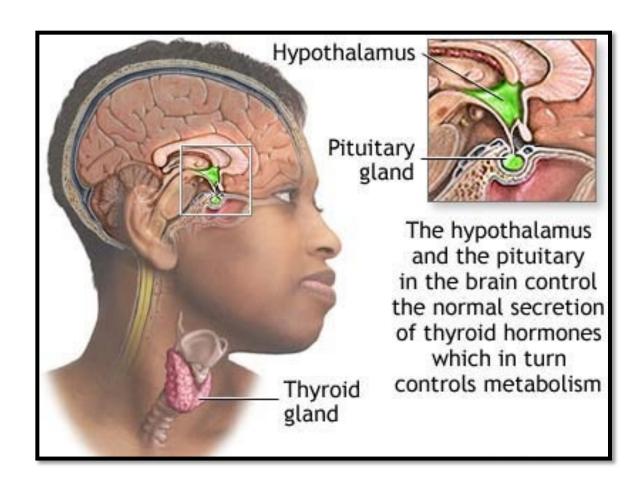


- newborn period
- late childhood
- adulthood

THYROID PROBLEMS

Hypothyroidism

Thyroid Function



Hypothyroidism

Thyroid Function

- Autoimmune thyroid disease increases in frequency with age in Turner syndrome (Hashimoto's thyroiditis)
- 50% antibody positivity
- 25-30% hypothyroid as adults

Hypothyroidism

Thyroid Function

- Thyroid (TPO) autoantibodies should be measured every 5 years
- If positive, TSH should be measured annually

Thyroid replacement therapy daily



EARS

External Ear Malformations & Otoplasty

May be associated with malformations



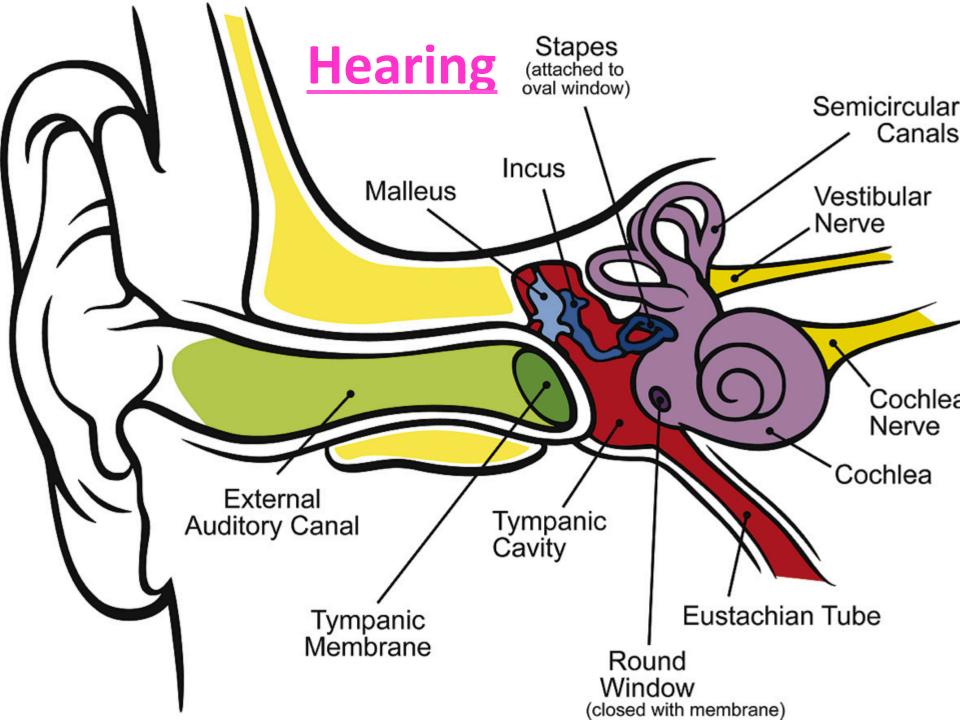
External Ear Malformations & Otoplasty

Keloid scarring more common in Turner syndrome



Hearing Loss

Up to 15% of adults with Turner syndrome experience clinical hearing loss



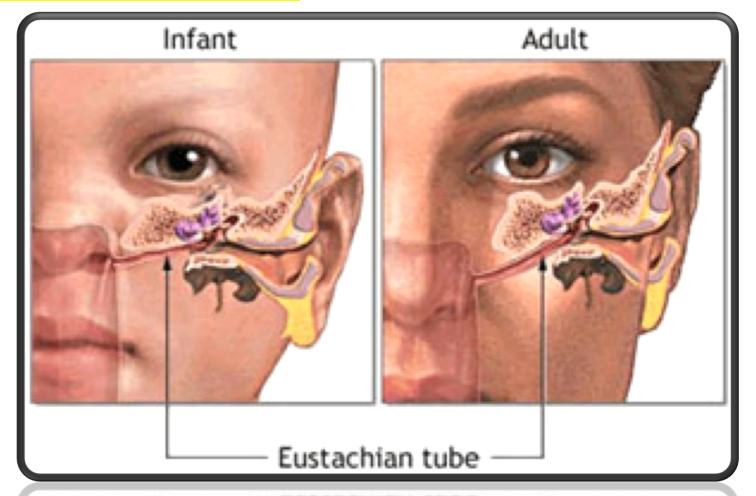
Conductive Hearing Loss

Common

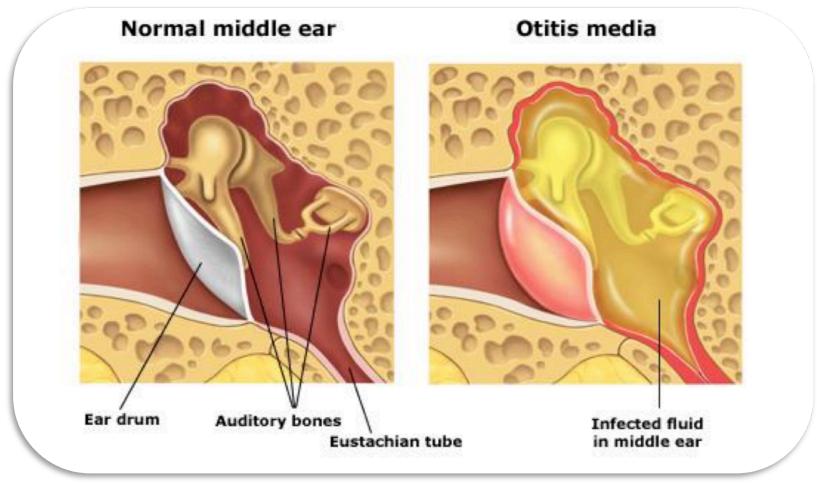
Secondary to recurrent Otitis Media (OME)

Peak OME: ages 1 – 6 years

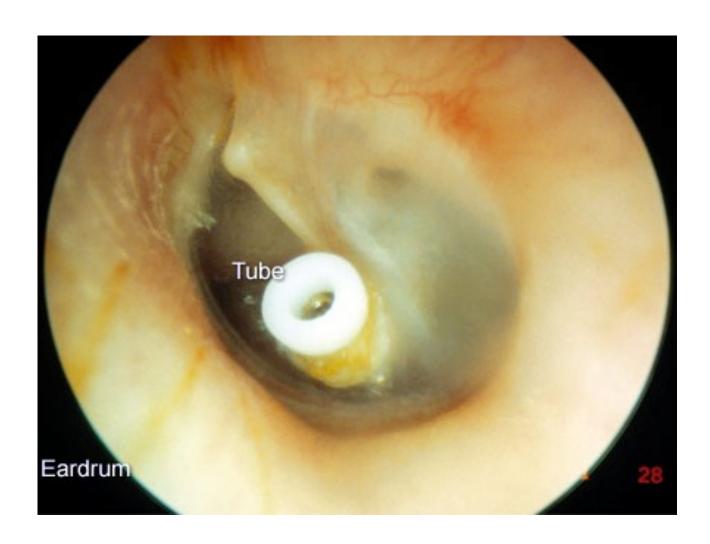
Conductive Hearing Loss



Conductive Hearing Loss



Grommet

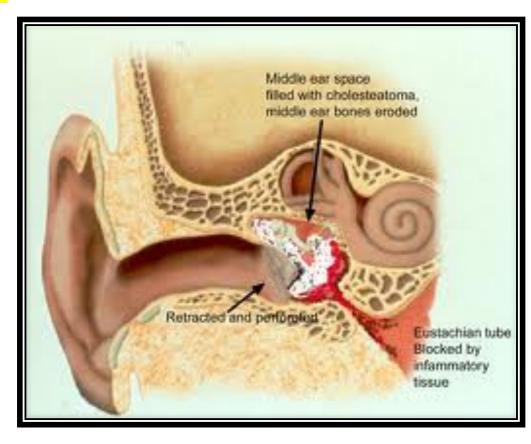


Conductive Hearing Loss

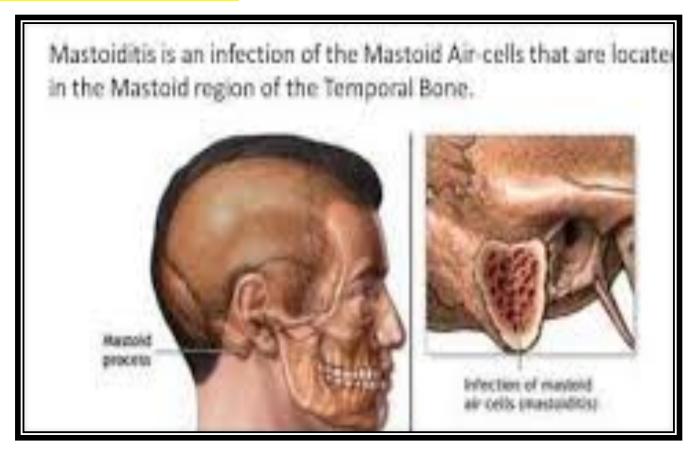
Monitoring & treatment necessary to prevent:

- -Mastoiditis
- -Cholesteatoma
- -Deafness

Cholesteatoma



Conductive Hearing Loss



Sensorneural (Nerve) Deafness

Progressive sensorineural hearing loss

- 50-90% of women with Turner syndrome >30 y.o.
- Detectable by age 6

- Overt hearing loss sometimes apparent in childhood
- Hearing Aids / Other devices

Speech & Language Difficulties

Speech problems may be secondary to hearing disorders

- Audiology, ENT, Speech Pathologist referrals
- Clinical evidence of hearing loss often only appears in adulthood → review is advised throughout life

Thank You