

# The Thyroid

In

Health and Disease

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# The Thyroid

- What is it?
  - What does it do?
  - How does it work
- An endocrine gland
  - Secretes T3 and T4  
controls the rate of  
chemical reactions in  
cells
  - ?



TSH  T4

# Functional disorders

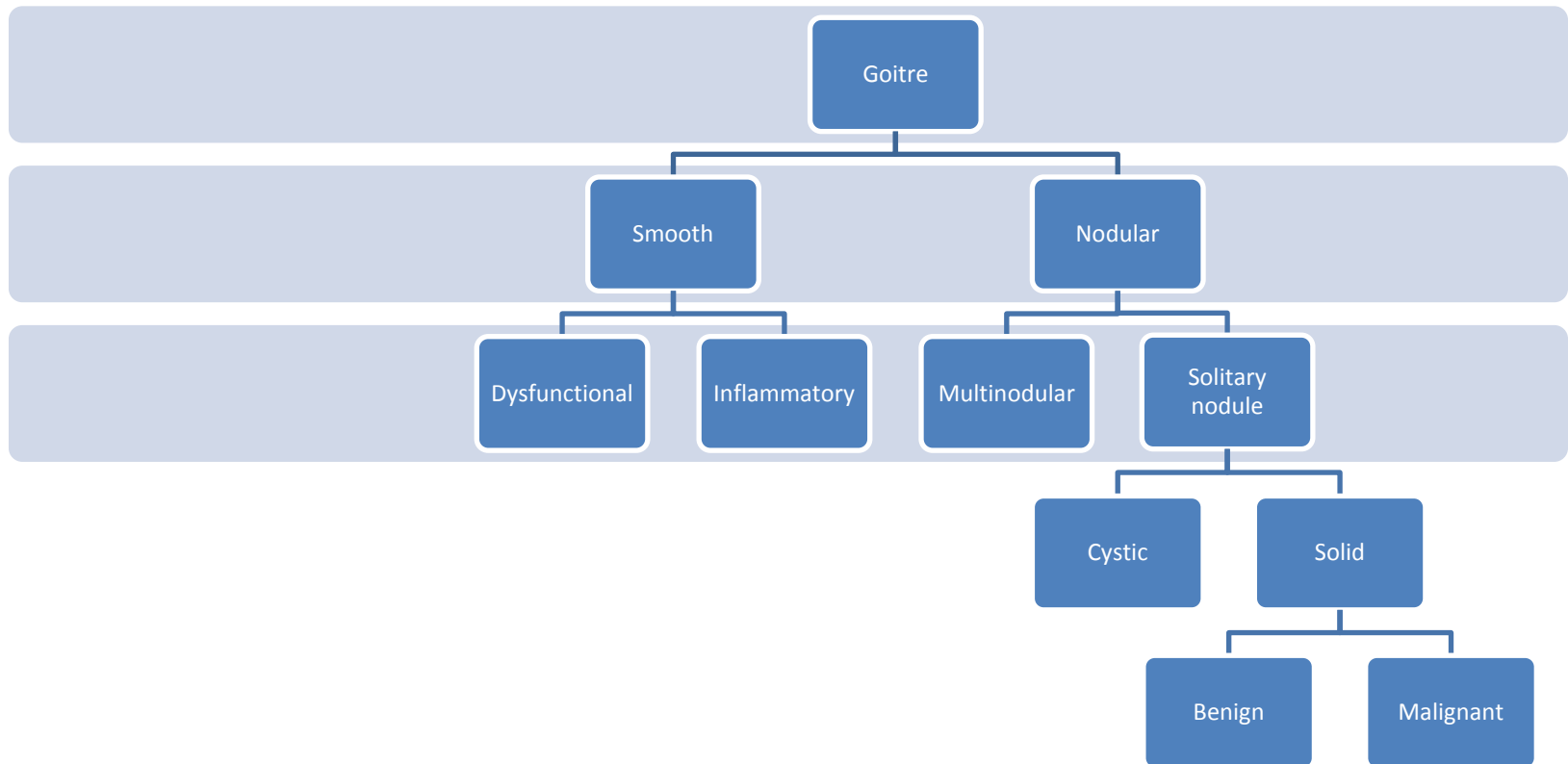
## Thyrotoxicosis

- RMR 
- Weight 
- Tachycardia
- Atrial fibrillation
- Heart failure
- Weakness and fatigue
- Irritability
- Disturbed menses
- Diarrhoea

## Hypothyroidism

- RMR 
- Weight 
- Slow and tired
- Hair loss
- Constipation

# Thyroid enlargement



# Diagnosis of Goitre

Clinical examination

Ultrasound

Fine Needle Biopsy

Thyroid function tests

Thyroid antibodies

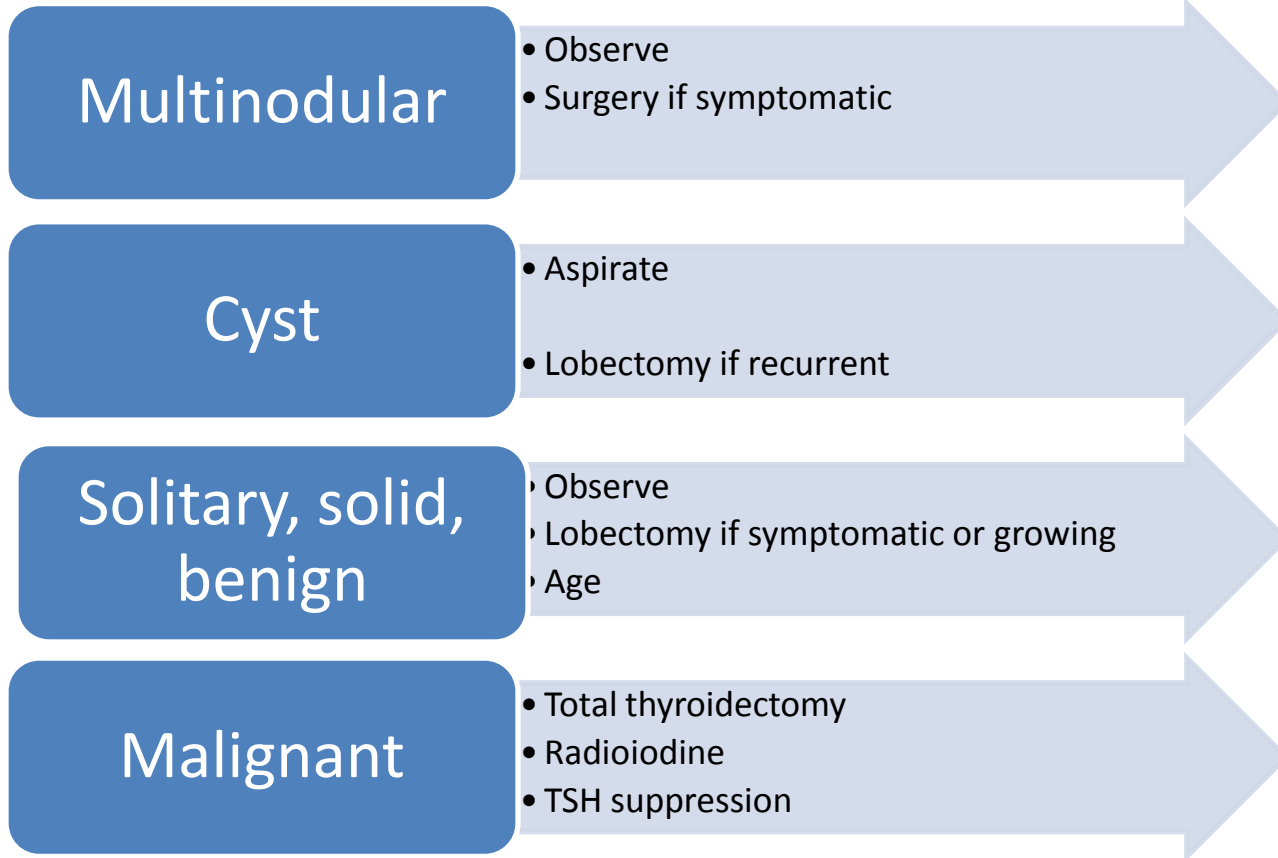
# Dysfunctional goitres

- Pregnancy
  - Iodine deficiency
  - Diet
  - GRAVES' DISEASE
- Check TFTs
  - Add iodine
  - Add iodine or change diet
  - Coming up!

# Inflammatory goitres

- Hashimoto's disease
  - TFTs
  - Thyroid antibodies
  - observe for
  - hypothyroidism or
  - tumour
- Reidel's thyroiditis

# Nodular goitres



# Treatment of Graves' Disease

## Medical

- Carbimazole or PTU
- 50% relapse

## Radio-iodine

- Unless eye signs
- Large goitre
- Patient choice

## Surgery

- Failure of medical treatment
- Contraindication to radio-iodine

