

## Parathyroid and adrenal

### Case 1

#### Primary hyperparathyroidism

58-year-old man complains of a general feeling of ill health for several months for which he didn't bother to seek medical advice. Recently however, he has developed abdominal pain radiating to the back. Three years ago, he had a proven attack of right ureteric colic for which further treatment was necessary after the stone passed spontaneously. His GP performed routine blood tests which were as follows

- Hb 13.2g/dl                      Na = 140 mmol/l                      K = 4.5 mmol/l
- MCV 86 fl                              Cl = 102 mmol/l                      HCO<sub>3</sub> = 26 mmol/l
- MCH 30pg                              Ca = 2.9 mmol/l
- MCHC 35g/dl                      Phos = 0.5 mmol/l

#### **Questions**

1. What is causes of primary hyperparathyroidism and its method of presentation?
  2. Is there any emergency presentation?
  3. What investigation are you going to do considering the blood results
  4. Discuss the surgical options in this patient.
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### Case 2

#### Cushing Syndrome

38-year-old female presents with unexplained increase in weight over the last 6 months. Her family noticed that her face looked puffy and she noticed some changes in the appearance of her abdominal skin reminiscent of her pregnancy several years ago. She is embarrassed by growth of her upper lip and has recently become a type II diabetes and has amenorrhea.

#### **Questions**

1. How is this condition caused?

2. How will you confirm the diagnosis?
  3. What is the treatment?
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### **Case 3**

#### **Incidentaloma**

48-year-old man underwent an abdominal CT scan for clinical features of chronic pancreatitis. Besides confirming the findings suggestive of chronic pancreatitis, the scan also showed a mass in his right adrenal gland.

#### **Questions**

1. What do you understand by incidentaloma?
  2. What is the management?
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### **Case 4**

#### **Pheochromocytoma**

45-year-old complains of headache, palpitation and sweating and general feeling of malaise and weakness from time to time over the last six months. Before that on a couple of occasions some of these symptoms came on while training in the gym. His general practitioner found he had a blood pressure of 180/120 mmHg.

#### **Questions**

1. what is the tumor and how would you confirm the diagnosis?
2. outline your management
3. discuss the approaches to adrenalectomy