Picture Quiz – Endocrinology

Arambewela M H¹

Journal of the Ceylon College of Physicians, 2018, **49**, 44-46

1. A 36-year-old man presented with palpitations, sweating, tearing of eyes and double vision. His pulse rate was 110 bpm and regular. Thyroid function tests revealed TSH <0.01 mU/L (0.3-5.5) and FT4 6 ng/dl (0.8-1.6).

Figure a

Figure b

Figure c

- a) What is the complete diagnosis?
- b) What treatment would you commence?
- c) What urgent action would you take considering his eye symptoms?
- d) What form of definitive treatment would he require in case of future relapse?

¹ Consultant Endocrinologist, Lecturer, Faculty of Medical Sciences, University of Sri Jaywardenepura, Sri Lanka.

2. A 20-year-old woman presented with galactorrhea, secondary amenorrhea and headache. She was not on any other medication. On examination she had bitemporal hemianopia. Investigations revealed prolactin 6500 mU/L (60-620), FSH 1.0 U/L (2.5-10.2), LH 1.0 (1.9-12.5), 9 AM serum cortisol 230 nmol/l (180-620), FT4 1.0 ng/dl (0.8-1.6), TSH 0.5 mU/L (0.35-5.5). MRI scan of the pituitary is shown.

Figure a – Contrast enhanced MRI scan of pituitary (coronal section)

Figure b – Contrast enhanced MRI scan of pituitary (sagittal section)

- a) What is the diagnosis?
 - b) How would you manage her?
 - c) Considering her age, what other disease would you screen for?
3. This 23-year-old man presented with increase in weight and change in appearance over 1 year.

- a) What important aspect in the history would you want to elicit?
- b) What features would you look for in the clinical examination to support your clinical suspicion?
- c) What initial test would you perform to confirm your suspicion?
- d) If these initial tests become positive what other tests you would arrange?

4. This 19-year-old boy has short stature and absent secondary sexual characteristics. He was otherwise well. X ray of non dominant hand (Figure c) showed a bone age of 12 years.

Figure a

Figure b – Growth chart

Figure c – X ray of hand for bone age

- What initial tests would you perform?
- What is the most likely diagnosis?
- List an essential biochemical and radiological test you would do before starting treatment?
- How would you treat this patient?

(Answers on page 48)