## 27-year-old man with decreased libido

Celeste Thomas, MD

### History of Present Illness

- Reported symptoms to his physician in September 2011
- Laboratory studies were drawn
  - TSH = 1.33 uIU/mL (reference range 0.4 to 5.4)
  - □ Total Testosterone = 231.0 ng/dL (reference range 249.0 to 836.0)
- Started on testosterone patch 5mg transdermal

# What Other Questions Would You

#### Ask?

- Frequency of shaving (-)
- Change in voice (-)
- Development of breast tissue (-)
- Breast tenderness (-)
- Breast discharge (-)
- Infertility (-)
- Fatigue
- Change in body composition decreased muscle mass v
- Depression, other change in mood
- Headaches v
- Decreased concentration V

### History of Present Illness

- September 2010
  - Vision changes
    - When focusing on something he saw double in the peripheral field of vision
  - Decreased libido
  - Decreased spontaneous erections
  - Weight gain

# History of Present Illness

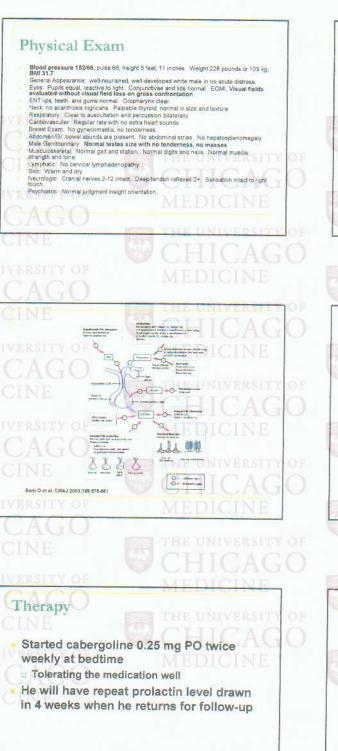
- January 2012 (on patch)
  - total testosterone 235 ng/dL (reference range 240 to 950)
  - free testosterone 7.8 ng/dL (reference range 9 to 30)
  - TSH 1.03 uIU/mL (reference range 0.27 to 4.20).
- Discontinued testosterone, didn't feel better and wondered why he needed it
- Presents to U of C Endocrine Clinic with wife
- She thinks his decreased libido has been ongoing for 2-3

# History

- PMH/PSH: none
- Allergies: none
- Medications/Supplements: none
- Social History:
  - Lives with wife
  - He is a lifelong non-smoker
  - Drinks approximately 1 beer per week
  - Does not use illicit drugs
  - not attempting to conceive
  - wife has prolactinoma

#### **Family History**

- Mother has fibromvalgia and arthritis.
- Father has obstructive sleep apnea.
- Paternal GF is alive in his late
- Maternal GF had coronary artery disease, stroke and GI cancer Maternal GM had coronary artery disease, and hypertension
- He has no family history of diabetes mellitus



## Laboratory Studies

141 101 16 4.2 30 1.1 96 10.0 7.7 5.1 0.6 24 32

Testosterone, total = 205 ng/dL, reference range 240 to 950 Testosterone, free = 7.6 ng/dL, reference range 9 to 30 LH = 2.2 miU/mL

Prolactin 103,5 ng/mL, reference range 4.0-15.2 ng/mL.

## Additional Evaluation

MRI of his pituitary gland identified a 5.9x5.9x4.6 mm microadenoma.

Given his impaired fasting glucose we also evaluated him for potential cortisol excess with a 24-hour urinary free cortisol

27 mcg/24 hours (ref range 3.5-45)

Urine volume = 1225 mL

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# References

Serri O et al. Diagnosis and management of hyperprolactinemia. Canadian Medical Association Journal 2003;169:575-581

Colao A. Pituitary tumours: the prolactinoma. Best Practice & Research Clinical Endocrinology & Metabolism. 2009
Oct;23(5):575-96.

- The National Cancer Institute just started keeping track of benign brain tumors in 2004.
- Since that time, about 7,000 pituitary tumors have been diagnosed each year.
  - Most of these pituitary tumors were benign adenomas

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