



04/30/21 Morning Report with @CPSolvers



Case Presenter: Thiago Mendes (@mendesthiagob) Case Discussants: Rabih Geha (@rabihmgeha)

<p>CC: Hirsutism</p> <p>HPI: 51 F coarse hair throughout the body. Excessive coarse last years and acne. 1 year ago: Dermatologist prescribed levothyroxine 4 months ago: Gyn prescribed ciproterone + etinilestradiol Last period, 4 years ago. Voice deepened recently.</p>	<p>Vitals: T: NI HR: NI BP:140/82 RR: NI SpO₂ NI BMI: 36.7</p> <p>Exam:</p> <p>Gen:</p> <p>HEENT, CV, Pulm, Abd, Neuro: NI</p> <p>Extremities/Skin: Not acantosis, not moon face. Modified Ferriman-Gallwey score 15 (NI < 8).</p>	<p>Problem Representation: 51 year old female w/ hx of T2DM presenting with hirsutism, acne, and recent onset of deepened voice, labs significant for high testosterone and normal DHEA-S</p>	
<p>PMH: Hypothyroidism, HTN, type 2 DM. Loss 20 kg for 3 years and attributed it to diet changes.</p> <p>Meds: 25 mg Levo, Losartan 50 mg daily, Metformin 2gm daily, Galvus 100 mg daily, Contraceptive Ciproterone + etinilestradiol.</p>	<p>Fam Hx: Unremarkable</p> <p>Soc Hx: Unremarkable</p> <p>Health-Related Behaviors:</p> <p>Allergies:None</p>	<p>Notable Labs & Imaging:</p> <p>Hematology: WBC: 4.1 Hgb: 12.3 Plt: 381</p> <p>Chemistry: Na: 144 K:4.1 Cr: 0.72 Ca: 9.1 AST: 29 ALT:41 Fasting glucose: 85 A1C 5.9 HDL: 37 LDL: 134 TG: 104 TSH 2.9 T4 free 4.9 TPO -ve Testosterone: 373 (NI 15-70 in F) DHEAS: 152 (NI 8-188 in F)</p> <p>Imaging: US transvaginal: Ovaries not visualized, nos mass. CT pelvis: R ovary mass</p> <p>Underwent surgery and pathology showed steroidal cells benign tumor. Testosterone levels went down, also improve her voice. Contraceptives were suspended and patient is doing well.</p> <p>Final Dx: steroidal cell ovary tumor.</p>	<p>Teaching Points (Gurleen):</p> <ul style="list-style-type: none"> ● HIRSUTISM: 1) <i>Spectrum of normal vs pathology, context is key Hirsutism vs. hypertrichosis (increase in vellus hair - not androgen)</i> 2) <i>Approach:</i> Familial, idiopathic, excess androgens → endogenous (PCOS, androgen secreting adrenal/ovarian tumors, Cushing's, CAH) vs. exogenous (anabolic steroids, medications such as minoxidil, phenytoin) Endocrine: Androgens, cortisol, acromegaly, obesity, deficiency of estrogen 3) <i>Layer symptoms based on other associated findings (virilization)</i> ● COLLECTING CLUES: Signs of virilization → acne, deepening of voice, clitoromegaly. Skin exam is important. -base rate of disease: PCOS most common cause of hirsutism, but onset at younger age ● Insulin-receptor antibody syndrome: pts w/ autoimmune disease, hypoglycemia & hyperglycemia, hirsutism, acanthosis nigricans ● Adrenocortical carcinoma: middle age female ● <i>In endocrinology, normal can be abnormal based on feedback loops.</i> DHEA-S regulated by ACTH, not testosterone ● Every diagnostic test has its limitations ● Follow up and delve deeper if high diagnostic suspicion ● Important to understand patient's gender identity and not assume based on sex assigned at birth