



02/27/21



# Morning Report with @CPSolvers

Case Presenter: Thiago Mendes (@mendes.thiagob) Case Discussants: Sandra Fonseca (@SandraF73382667) and Maria Luiza (@mluizarod)



<p><b>CC:</b> darkening of the skin.</p> <p><b>HPI:</b> 17 yo female presenting with darkening of the skin for a long time.</p> <p>Fatigue, poor school performance (unable to inject insulin in herself - needed help for that)</p>	<p><b>Vitals:</b> T: normal   HR: normal   BP: 118x72 mmHg   RR: normal   SpO<sub>2</sub>:normal   BMI 20.4   No postural hypotension</p> <p><b>Exam:</b></p> <p><b>Gen:</b> normal</p> <p><b>HEENT:</b> normal</p> <p><b>CV:</b> normal</p> <p><b>Pulm:</b> normal</p> <p><b>Abd:</b> normal</p> <p><b>Neuro:</b> normal</p> <p><b>Extremities/Skin:</b> lesions with increased pigmentation around the mouth and elbow (internal region) associated with some desquamation around the mouth</p>	<p><b>Problem Representation:</b></p> <p><b>ENG:</b> 17yoF w/ PMH of type 1 DM p/w chronic darkening of the skin. Labs showed low cortisol and high ACTH.</p> <p><b>ESP:</b> mujer de 17 años con antecedente de diabetes tipo 1 se presenta con fatiga y oscurecimiento de la piel</p> <p><b>POR:</b> Paciente 17f com DM mal-controlado com lesões escurecidas por longo tempo. Exames mostraram baixo cortisol e elevado ACTH.</p>	
<p><b>Past Medical History:</b> Type 1 Diabetes since 9 yo</p> <p><b>Meds:</b> Insulin Glargine 36 UI/day Insulin Lispro 6-6-6 (before eating)</p>	<p><b>Family History:</b> None</p> <p><b>Social History:</b> None</p> <p><b>Health Related Behaviours:</b> None</p> <p><b>Allergies:</b> None</p>	<p><b>Notable Labs &amp; Imaging:</b></p> <p><b>Hematology:</b> WBC: 7010   Hgb: 11,9   Hct 35,9</p> <p><b>Chemistry:</b> Na: 134   K: 3,5   A1c 9.6%   TSH 5,06   LDL 101   HDL 36   Fasting glucose 181   Total cholesterol 151</p> <p>Morning cortisol 2,6 (low)   ACTH &gt; 1250 (high)   Aldosterone 6 (low)   Renin &gt; 500 (high)</p> <p><b>Final Diagnosis: Adrenal Primary Insufficiency (Autoimmune) or Addison's Disease -&gt; Type-2 Polyglandular syndrome (associated with type 1 diabetes)</b></p> <p><b>Treated with Hydrocortisone, and the skin lesions and the school performance got better</b></p>	<p><b>Teaching Points (Rafa):</b></p> <ul style="list-style-type: none"> <li><b>APPROACHING YOUNG F W/ DARKENING SKIN LESIONS</b> Nutritional deficiencies, drug abuse, primary adrenal insufficiency ( high ACTH - increased melanin production - hyperpigmentation of buccal mucosa, palms), Peutz-Jeghers syndrome (hyperpigmented macules on mouth, lips, hands, genital a/w hamartomas throughout GI tract), heavy metals, genetic syndromes, PCOS (insulin resistance - hyperpigmentation).</li> <li><b>TYPE 1 DM</b> Most common in young patients - autoimmune destruction of B-cells - clinical manifestations include polydipsia, polyuria, polyphagia, weight loss, DKA) Pearl: Not seen w/ acanthosis nigricans - insulin resistance is seen in type 2 DM!</li> <li><b>ADRENAL INSUFFICIENCY</b> Addison disease - autoimmune destruction Infectious causes: TB, Paracoccidioides Waterhouse-Friderichsen syndrome: acute and d/t adrenal hemorrhage (DIC, N. meningitidis) Clinical syndrome: look for N/V, abdominal pain, fatigue, hyperkalemia (not always present), hyponatremia, NAGMA, hypotension Cortisol and ACTH in the morning are important for the dx</li> <li><b>AUTOIMMUNE POLYGLANDULAR SYNDROME</b> Type 1: chronic mucocutaneous candidiasis, hypoparathyroidism, and AI AIRE dysfunction Type 2: Addison's disease (AD) associated with autoimmune thyroid disease and/or T1DM</li> </ul>