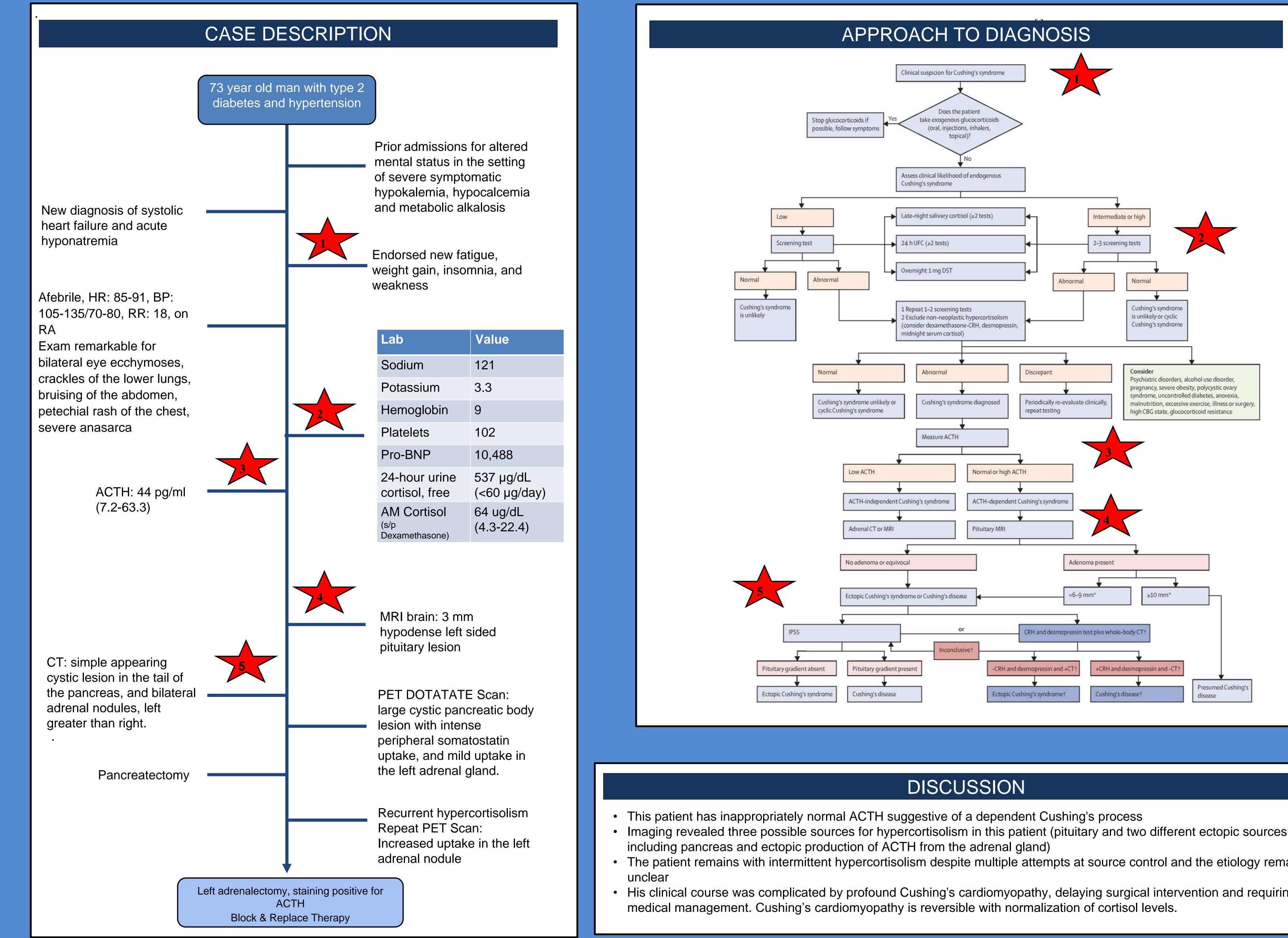


# **Cushing's Syndrome A Continuing Conundrum**

## Erynn A. Beeson, MD<sup>1</sup>, Simone Dekker, MD, PhD<sup>2</sup>, Sima Desai, MD, MACP, FRCP<sup>2</sup>

1. Oregon Health & Science University, Department of Medicine

2. Oregon Health & Science University, Department of Hospital Medicine



### **REFERENCES & GRATITUDE**

We thank the OHSU Department of Endocrinology for their excellent care of this patient, teaching, and clinical guidance.

Fleseriu M, Auchus R, Bancos I, Ben-Shlomo A, Bertherat J, Biermasz NR, Boguszewski CL, Bronstein MD, Buchfelder M, Carmichael JD, Casanueva FF, Castinetti F, Chanson P, Findling J, Gadelha M, Geer EB, Giustina A, Grossman A, Gurnell M, Ho K, Ioachimescu AG, Kaiser UB, Karavitaki N, Katznelson L, Kelly DF, Lacroix A, McCormack A, Melmed S, Molitch M, Mortini P, Newell-Price J, Nieman L, Pereira AM, Petersenn S, Pivonello R, Raff H, Reincke M, Salvatori R, Scaroni C, Shimon I, Stratakis CA, Swearingen B, Tabarin A, Takahashi Y, Theodoropoulou M, Tsagarakis S, Valassi E, Varlamov EV, Vila G, Wass J, Webb SM, Zatelli MC, Biller BMK. Consensus on diagnosis and management of Cushing's disease: a guideline update. Lancet Diabetes Endocrinol. 2021 Dec;9(12):847-875. doi: 10.1016/S2213-8587(21)00235-7. Epub 2021 Oct 20. PMID: 34687601; PMCID: PMC8743006.

Lacroix A, Feelders RA, Stratakis CA, Nieman LK. Cushing's syndrome. Lancet. 2015 Aug 29;386(9996):913-27. doi: 10.1016/S0140- 6736(14)61375-1. Epub 2015 May 21. PMID: 26004339.

- Imaging revealed three possible sources for hypercortisolism in this patient (pituitary and two different ectopic sources
- The patient remains with intermittent hypercortisolism despite multiple attempts at source control and the etiology remains
- His clinical course was complicated by profound Cushing's cardiomyopathy, delaying surgical intervention and requiring

### TEACHING POINTS

- Cushing's Syndrome, though uncommon, may present with conditions frequently encountered in the primary care setting such as hypertension, diabetes, congestive heart failure, insomnia, and elevated BMI
- In considering an etiology, an ACTH level allows us to create a framework for diagnosis
- Understanding the workup of this condition is crucial, given the complexity of this syndrome and importance of timely referral
- Surgery is often considered definitive management for hypercortisolism (with source control or bilateral adrenalectomy)
- In severe or persistent Cushing's syndrome, endogenous production of cortisol is blocked with ketoconazole and metyrapone and replaced with exogenous dexamethasone or bilateral adrenalectomy is pursued