Pediatrics Cushing's Disease: a diagnostic challenge



Hospital Braga

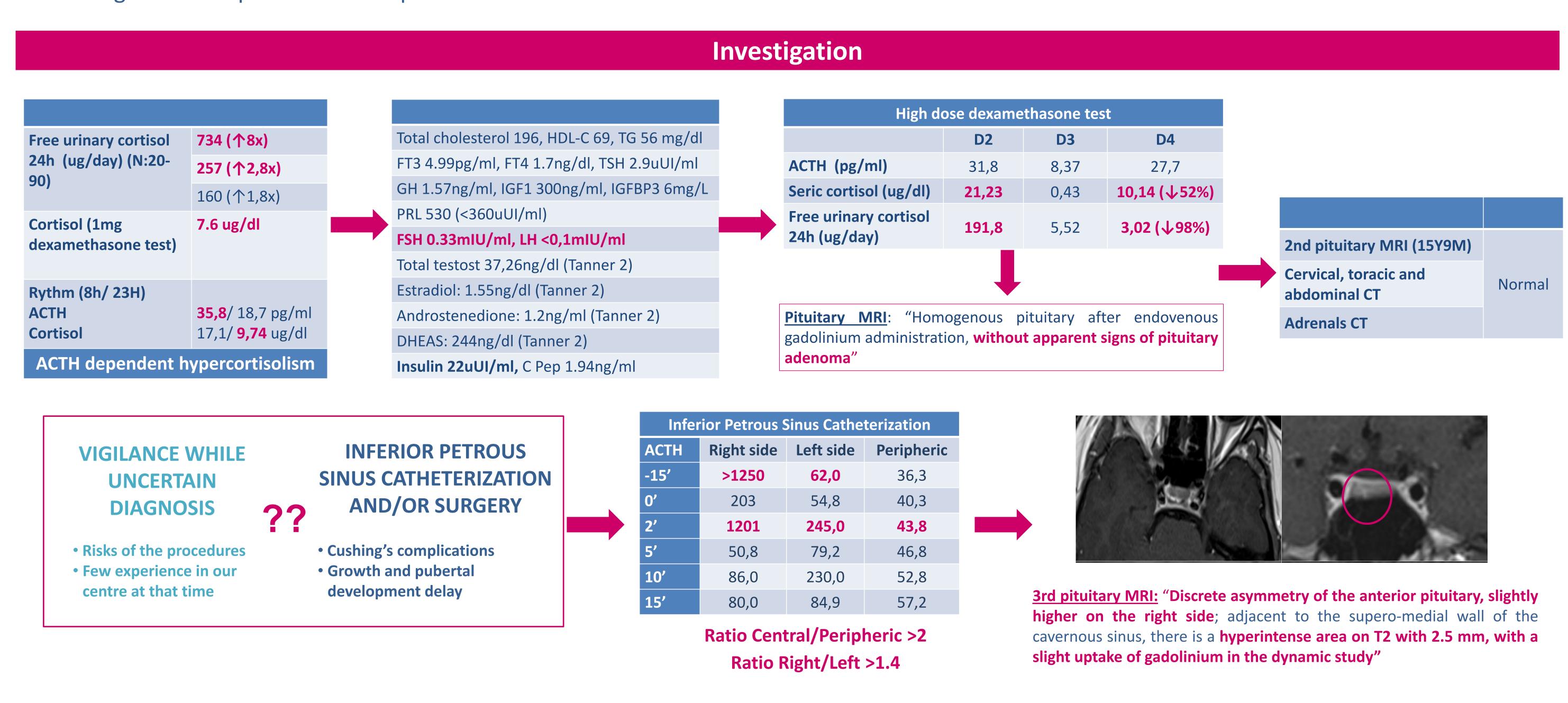
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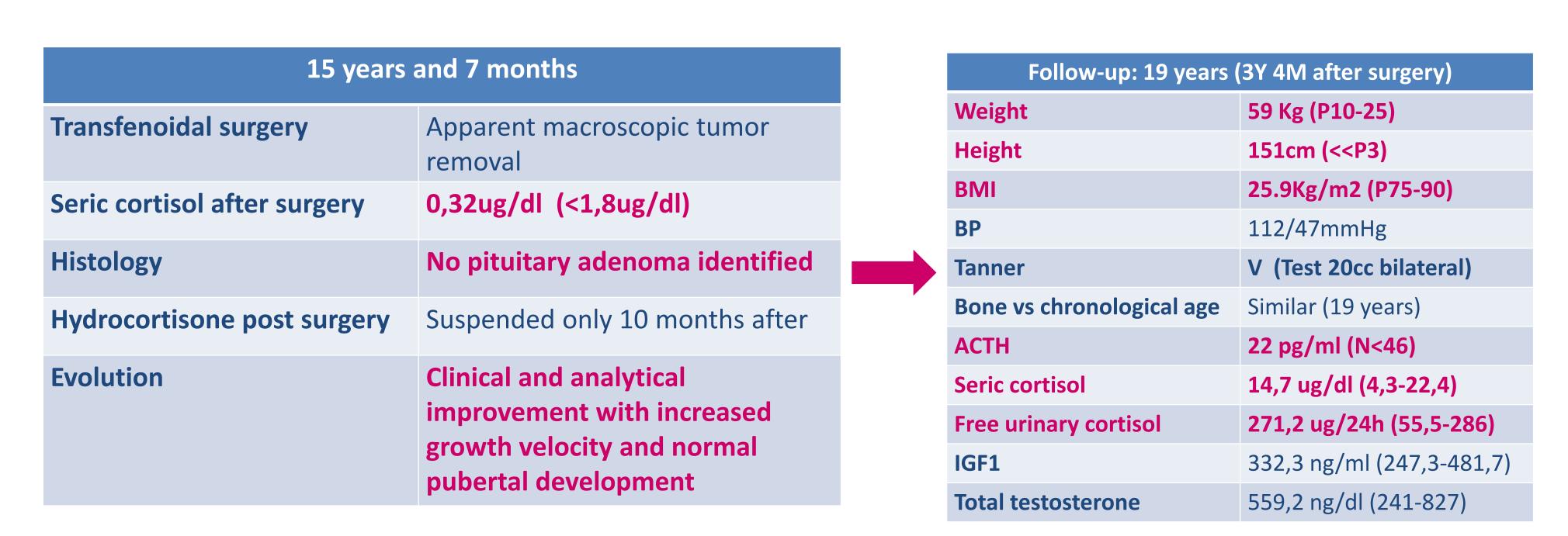
Introduction: Cushing's disease (CD) is rare in children. It's most common clinical manifestations are growth retardation, changes in pubertal development and weight gain. The diagnosis, based on clinical suspicion, is often hampered by the non identification of the microadenoma in MRI.

Clinical case

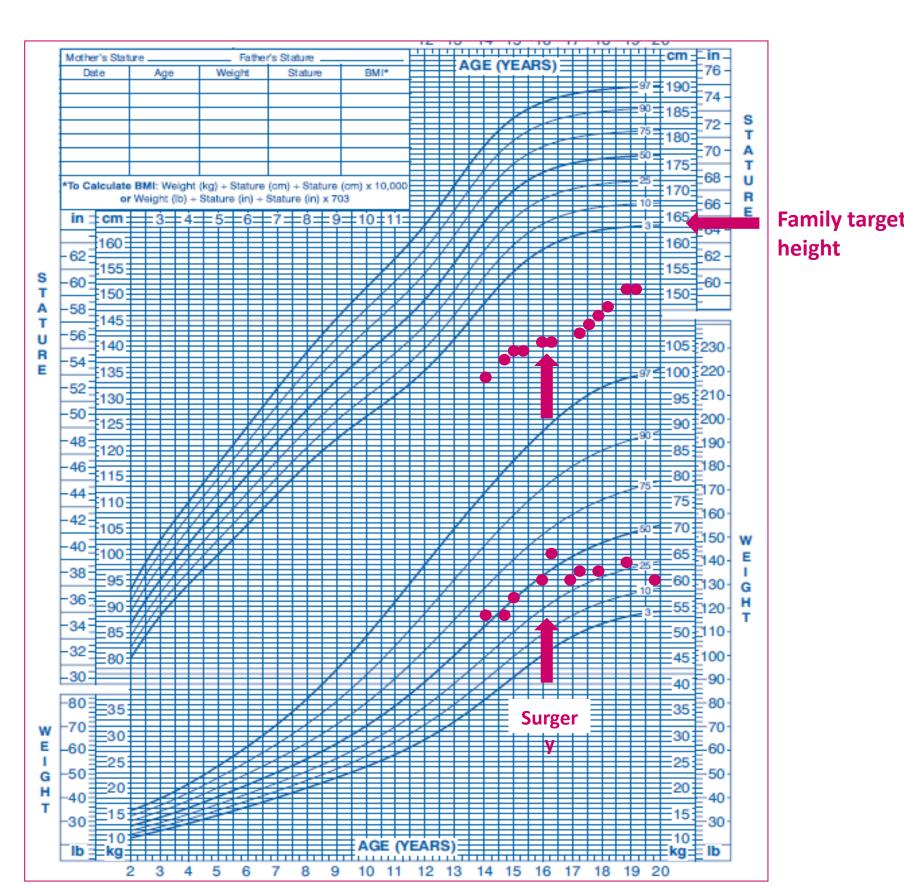
- History of present illness: Fourteen year old boy observed in a pediatric endocrinology consultation due to increased weight gain since age of 9 and short stature and growth arrest (growth velocity < P3) since age of 12.
- •Past Medical History: irrelevant
- •Family history: overweight in both parents; one 18 year old brother with normal growth and pubertal development
- Physical Exam
- Moon face, facial flushing, acne, abdominal obesity.
- •BP 131/75mmHg (P95), Weight 54.5Kg (P75), height 135cm (<<<P3), BMI 29.9Kg/m2 (>P95)
- •Tanner: P2, A1, G1.
- •Similar bone and chronological ages.



Treatment and evolution



Conclusion: This case had a successful evolution, but highlights the difficulties of CD diagnosis in children. Time between clinical suspicion and definitive treatment can be long, and the therapeutic decision must take into account all the risks and benefits involved.



Growth and weight chart