

Secretory Adrenal Adenoma in Children: A Case Report

M. Tahiri^{1*}, Y. Hajjaji¹, O. Dalero¹, S. Andaloussi¹, A. El Madi¹¹Faculty of Medicine and Pharmacy of Tangier, Abdelmalik Essaadi University, MoroccoDOI: <https://doi.org/10.36347/sjmcr.2026.v14i03.007>
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***Corresponding author:** M. Tahiri

Faculty of Medicine and Pharmacy of Tangier, Abdelmalik Essaadi University, Morocco

Abstract**Case Report**

Secretory adrenal adenoma is an uncommon cause of endocrine disturbance in the pediatric population, often presenting with clinical features of hormone excess. This case report describes a 9-year-old girl who presented with a two-year history of progressive virilization, including hirsutism, pubic hair development, obesity, and severe acne. Laboratory evaluation confirmed hyperandrogenism, and computed tomography revealed a 45-mm right adrenal mass. The patient underwent right adrenalectomy, and histopathological examination confirmed a benign adrenal adenoma. Postoperative follow-up demonstrated significant clinical, biological, and psychological improvement with regression of Cushingoid features. This case highlights the diagnostic challenges of pediatric adrenal tumors and underscores the importance of surgical management and long-term monitoring, given the uncertain boundary between benign and malignant adrenal cortical lesions in children.

Keywords: Pediatric adrenal tumor, Virilization, Adrenal adenoma, Hyperandrogenism, Adrenalectomy.**Copyright © 2026 The Author(s):** This is an open-access article distributed under the terms of the Creative Commons Attribution 4.0 International License (CC BY-NC 4.0) which permits unrestricted use, distribution, and reproduction in any medium for non-commercial use provided the original author and source are credited.

INTRODUCTION

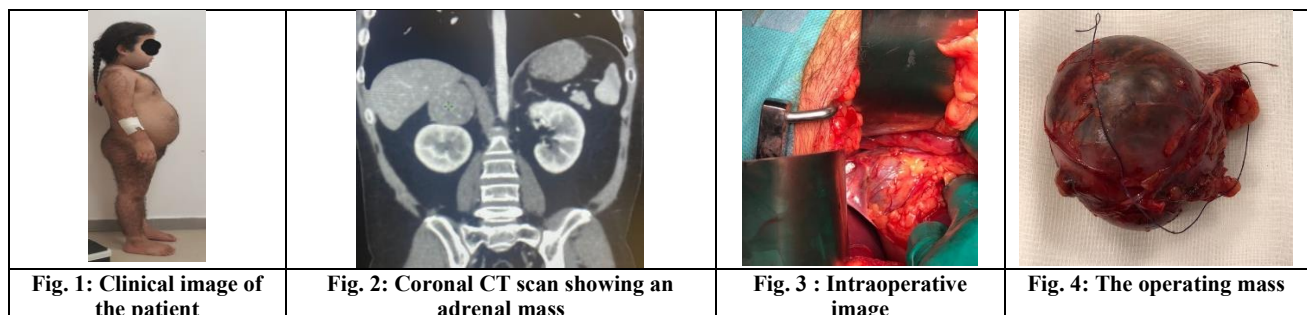
Benign adrenal tumors are a pathological entity that is often discovered incidentally. Benign adrenal tumors are a pathological entity that is often discovered incidentally. Functional adrenal adenoma is a very rare phenomenon whose diagnosis is established clinically and then confirmed exclusively by histological examination.

There is no family history of cancer, particularly sarcomas, breast cancer, or brain tumors diagnosed before the age of 45, omphalocele, macroglossia, macrosomia, a tendency toward neonatal hypoglycemia, ear malformations, or abdominal midline abnormalities that could suggest Li-Fraumeni syndrome or Beckwith-Wiedemann syndrome.

CLINICAL CASE

This is a 9-year-old girl from an incestuous marriage, admitted for treatment of signs of virilization that appeared two years ago, characterized by adult-like pubic hair, hirsutism, facial and trunk obesity, and severe acne, particularly on the face and back. The patient is overweight at +2 SD.

Clinical hyperandrogenism was confirmed by laboratory tests. A CT scan revealed a 45 mm mass in the right adrenal gland. The surgical specimen removed by right adrenalectomy showed a well-encapsulated mass with a smooth surface. The pathological examination revealed an adrenal adenoma.

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