

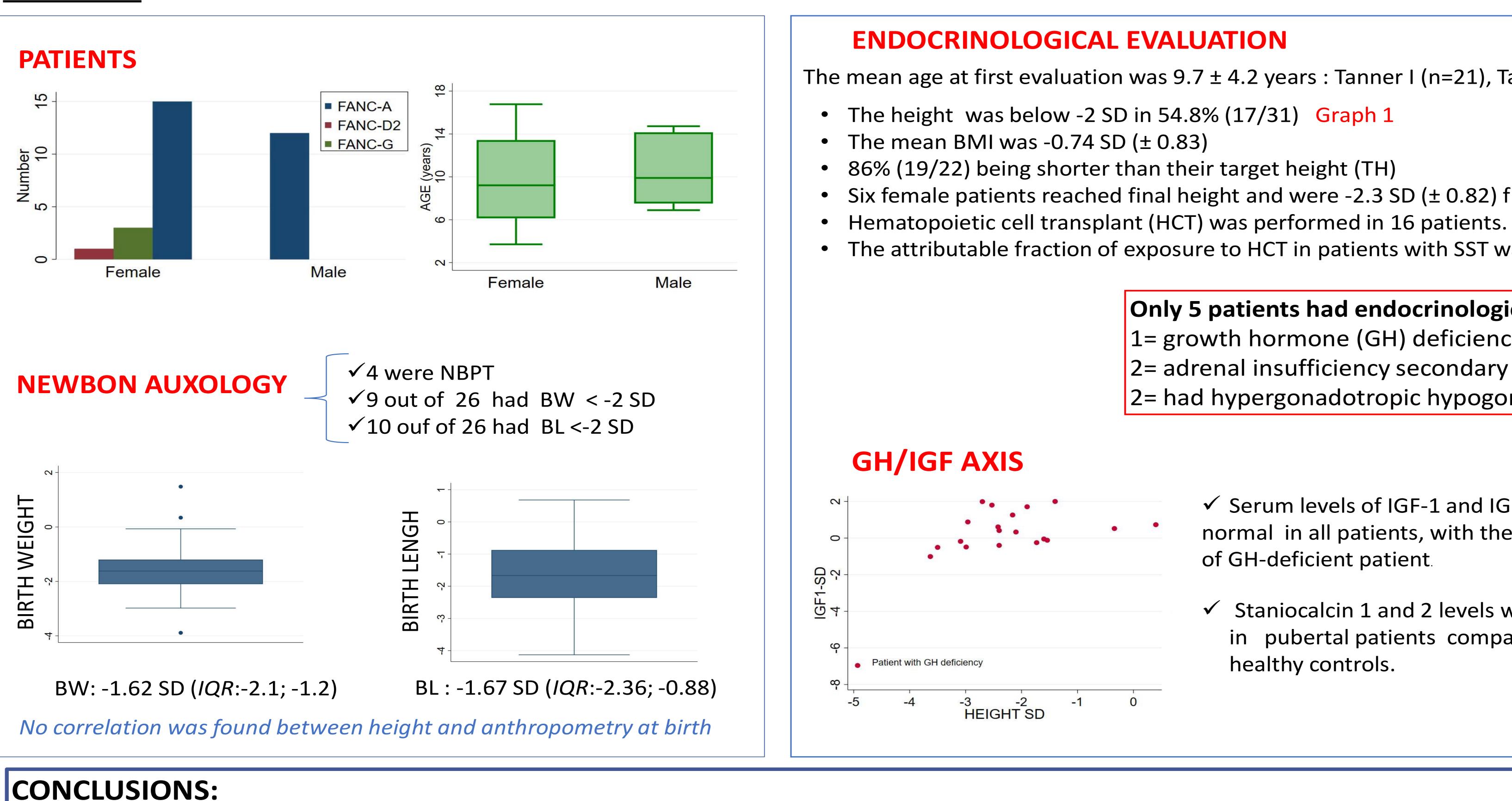
RESULTS:





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INTRODUCTION: Fanconi anemia (FA) is a rare genetic disease that presents with aplastic anemia. Around 60% have short stature (SST), with a mean height of -2.2 SD. However, studies assessing the etiology of SST not having reached relevant conclusions.







ENDOCRINOLOGICAL ASSESSMENT IN PATIENTS WITH FANCONI ANEMIA

<u>AIM</u>: To Evaluate the clinical features and endocrine status in relationship to SST in patients with FA.

METHODS AND PATIENTS: A cross-sectional study was carried-out between 2019-2020 in 31 pediatric patients (19) females) with FA. Auxological assessment, biochemical analysis, study of the hypothalamic-pituitary axis and an MRI of the hypothalamic-pituitary area were performed

Short stature is an integral feature of FA but does not seem to be related to a GH deficiency. However, an alteration in the peripheral regulation of the GH/IGF axis cannot be excluded.

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The mean age at first evaluation was 9.7 ± 4.2 years : Tanner I (n=21), Tanner II (n=1), Tanner IV (n=2), Tanner V (n=6)

Six female patients reached final height and were -2.3 SD (± 0.82) from their TH. • The attributable fraction of exposure to HCT in patients with SST was 42% [CI95% (71-85)], p>0.05.

Only 5 patients had endocrinological alterations:

1= growth hormone (GH) deficiency 2= adrenal insufficiency secondary to corticosteroid treatment 2= had hypergonadotropic hypogonadism after transplantation

✓ Serum levels of IGF-1 and IGFBP-3 were normal in all patients, with the exception of GH-deficient patient.

✓ Staniocalcin 1 and 2 levels were lower in pubertal patients compared to healthy controls.

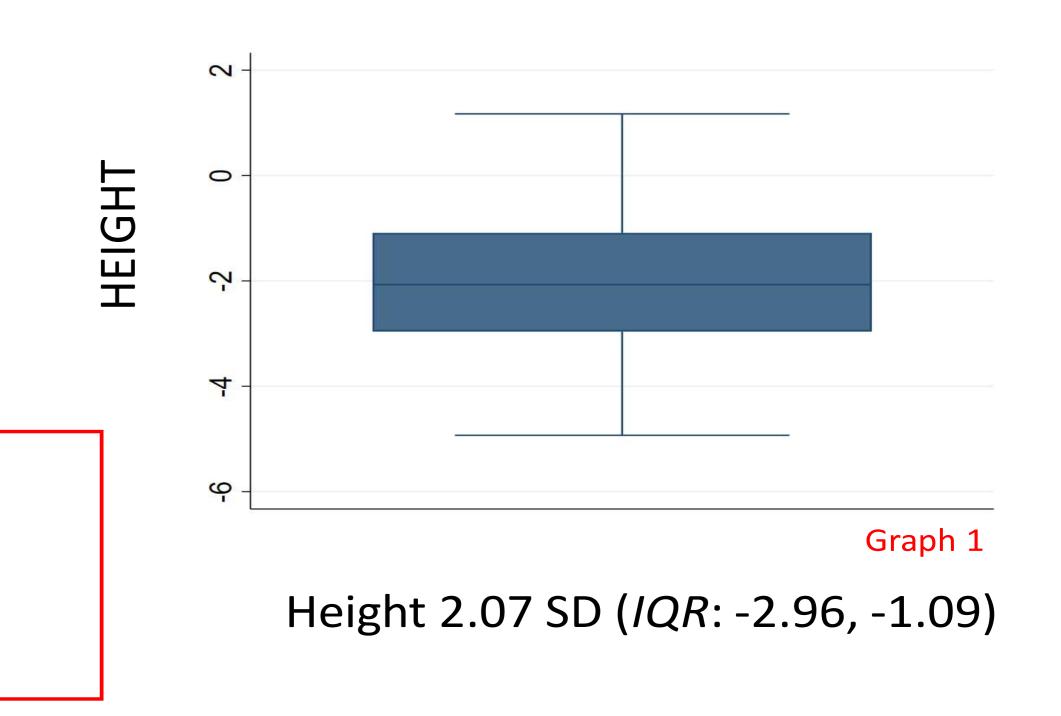
MRI FINDINGS:



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• The volume of the pituitary gland was normal [0.45SD (IQR: -0.21; 0.75)], except in the patient with GH deficiency, who had a volume of -2.98 SD with ectopic neurohypophysis.

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