Uncommon association of hypoparathyroidism and Rendu-Osler syndrome

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SERUM CALCIUM	7,1 mg/dl	(8.4 – 10.2 mg/dl)
SERUM ALBUMIN	5.1 g/dl	(3.2 – 5.2 g/dl)
CORRECTED CALCEMIA	6.8 mg/dl	
SERUM PHOSPHORUS	7.4 ng/dl	(2.5 – 4.5 ng/dl)
URINE CALCIUM	5 mg/500 ml	(5 – 300 mg/24 h)
SERUM 25 HIDROXYVITAMIN D	35.19 ng/ml	(30 – 100 ng/ml)
SERUM PTH	24.96 pg/ml	(15 – 65 pg/ml)

Introduction

- Rendu-Osler-Weber syndrome (also called Hereditary Haemorrhagic
 - Teleangiectasia) is an autosomal dominant disorder that results from
 - multisystem vascular dysplasia.
- HHT syndrome has been described in association with autoimmune disorders,
- such as Hashimoto thyroiditis, lupus erythematosus, vitiligo, anti-phospholipidic
- syndrome and pernicious anaemia.

Case report

- We present the case of a 6 year old girl with Rendu-Osler-Weber syndrome who
 - was referred for endocrinological evaluation for moderate hypocalcemia
 - discovered during a biochemical screening.
- The patient complained of paresthesia of the extremities without a history of

Diagnosis and treatment

- Based on the clinical and biochemical evaluation the diagnosis of hypoparathyroidism was established.
- She was given alphacalcidolum in doses of 0.25 ug and 500 UI colecalciferol, and

put on a low phosphorus diet.

- carpal-pedal spasm, seizures or laryngospasm.
- Physical exam showed:
 - obesity (BMI 22.7 kg/m2, above 97th percentile)
 - no bone deformities
 - positive Chvosteck sign
 - dental dystrophia.

Endocrinological evaluation

- During the initial endocrinological evaluation, blood tests showed low serum
- calcium (8.1 mg/dl and 7,1 mg/dl in two different ocasions), serum albumin (5.1
- g/dl) and corrected calcemia (6.8 mg/dl), high phosphorus (7.4 ng/dl), low urine
- calcium (5 mg/500 ml, under the reserve of improper collection) and normal 25
- hidroxyvitamin D levels (35.19 ng/ml).

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- She was advised to have an adequate intake of calcium. Under treatment, at one

month evaluation the calcium corrected (serum calcium 8.4 mg/dl).

Discussions

We present this case because of the rare association between HHT and

hypoparathyroidism.

- To our knowledge, there is only one clinical case report of two brothers with clinical manifestations of HHT in addition to severe hypocalcemia associated to hypoparathyroidism.
- One possible explanation for this rare association can be the autoimmune etiology of hypoparathyroidism since other autoimmune disorders were reported to be found in HHT.
- However, the mechanism underlying the connection between HHT and
- The parathyroid hormone concentration was inappropriately low (24.96 pg/ml).
- Cerebral CT scan showed no calcifications.
- Hand X ray showed normal length of the metacarpal bones and no particular
- findings were found on electrocardiogram).

autoimmune disorders is not yet clarified.

• Nowadays, there are no sufficient data to justify the coexistence of these two rare

diseases.



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