INTRODUCTION

Apert's syndrome is an autosomal dominant inherited disease characterized mainly by acrocephalopolysyndactyly, which results from synostosis of the frontal and parietal sutures and by usually symmetrical syndactyly involving the four extremities.1,2

Apert's syndrome results from mutations in the receptor 2 of fibroblast growth factor (FGFR2) involving two adjacent amino acids.3

Treatment of these patients is done by multidisciplinary teams. Planning of surgery should be done in stages: craniofacial surgery aims to decompress the brain and is done in infancy; advancement of the middle third improves airway-nasal flow, and may be done in puberty; and finally, orthognathic surgery improves occlusion and dental esthetics, and may be done in adolescence.

CASE REPORT

DOs, a male black patient aged 19 years, a student who was the first child of three. The other two siblings were normal. His mother brought him to the Buco-maxillofacial Trauma Surgery Unit of the Santa Casa de Misericordia, Sao Felix, state of Bahia, with the following complaint: "I would like to have the appearance of my mother." The family history contained no report of similar cases. The mother said that the pregnancy for this patient was normal and had no type of physical, pharmacological or psychological trauma. He was the first child of a couple in the third decade of life.

The physical examination showed the features of acrocephalopolysyndactyly (Figure 1). The face was mildly flattened and asymmetric, there was hypertelorism, ocular proptosis and depression of the lateral palpebral fissures. There was also a deep transversal groove above the supraorbital region, which gave the patient an aged look. The nose was small and its width was disproportional to its length; the nasal bridge was depressed, which gave it a "parrot's nose" aspect. The middle third of the face was hypoplastic, the nasolabial angle was decreased, and there was mouth breathing and absence of lip closure. The ears were wide and displaced downwards.

The patient underwent nine surgical procedures to separate the hand fingers so that he could learn to write and carry out basic care such as holding objects and food and personal hygiene. Surgery was successful and the patient is currently independent in some tasks. He was eventually referred to the Facial Deformity Unit of the Santo Antônio Hospital, Salvador, Bahia, where he is undergoing preoperative testing. He continues to be monitored at the unit in which the diagnosis was made.

Figure 1. Medical and radiographic findings.

The fingers and toes were fused, at times forming a mass with a single nail. The maxilla was atresic, the palatal ceiling was arched and there was gingival fibromatosis, which is typical of a pseudo-grooved palate. The teeth were generally ill positioned, with ectopic eruption, crowding and gyroversions. Tooth eruption was delayed. Some teeth had been destroyed by caries, partially explained by lack of motor coordination. There was an anterior open bite and a posterior crossed bite.

A posteroanterior and lateral face X-ray and X-rays of the hands and feet were taken.

The lateral face X-ray shows clearly hypoplasia of the middle third and mandibular pseudoprognathism, demonstrating the bone discrepancy and decreased anteroposterior size of the cranium, as well as increased vertical length, yielding a turricephalic aspect. Hand and feet radiographs showed the pathognomonic syndactyly of Apert's syndrome.

Final Comments

In these heterogeneous dysplasias, each case has to be classified individually. The aim is to alert clinicians and surgeons about the prognosis and possible correction - including esthetic ones - for increased acceptance by the patient. The importance of social adjustment and the need for occupational therapy and physical activities should not be underestimated. The benefits are both emotional and physical, and postpone major malformations caused by synostosis.

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