VAN DER WOUDE SYNDROME WITH MENTAL RETARDATION: CASE REPORT

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SUMMARY

A report of a four and half-year old African patient with Van der Woude syndrome and mental retardation is reported. In addition to cleft lip/palate, hypodontia and lower lip pits; features consistent with Van der Woude syndrome, he manifested features consistent with growth and mental retardation. A genetic basis for these associated features can only be determined by detailed karyotype studies.

INTRODUCTION

Anne Van der Woude(1) in 1954 described a familial syndrome of cleft upper lip and palate associated with discharging lower lip sinuses. This syndrome has been traced to deletion or translocation on chromosome 1q32 (2-5). In very rare instances, Van der Woude syndrome has been reported in association with other genetic abnormalities such as Kabuki Make-up syndrome(6), characterised by typical facial appearance, skeletal abnormalities, post-natal growth retardation, mental retardation and anomalus dermatoglyphic patterns.

CASE REPORT

I.A. a four and half-year old boy was delivered at term by spontaneous vaginal delivery after normal pregnancy with an Apgar score of 8 assessed at about five minutes post delivery. His parents were young, apparently normal, non-con sanguineous and both of them Tivs (an indigenous ethnic group in the Middle Belt of Nigeria). His birth weight was 3.05kg. His parents and the attending mid-wife at birth noted the...

Figure 1b

Van der Woude syndrome with short stature bilateral gena vara and the right paraumbilical hernia

Figure 1a

Picture of the patient showing a pair of lower lip pits and the repaired bilateral cleft upper lip

Figure 1c

Hypodontia of upper lateral incisors
presence of cleft upper lip and palate and an umbilical hernia. A few days later his parents noticed a pair of discharging sinuses in the lower lip just close to the mid-line, the discharge had remained clear and slimy like saliva. There was no family history of similar congenital anomalies. The patient presented late because of his parents' ignorance and their misguided belief in local taboo.

At the age of four and half-years, the patient was referred to us for cosmetic reasons and also because of suspected mental retardation. We found him very active, giggling without apparent cause, with bilateral cleft lip, left complete cleft palate, a pair of serous discharging, symmetrical sinuses one on either side of the mid-line of the lower lip and hypodontia of the lateral upper incisors. He also presented with a paraumbilical hernia and bilateral gena vara. Though there was no obvious defects in axial skeleton, his height was diminutive but his head circumference was within normal limits for his age. There was obvious mental retardation - drooling of saliva, loss of concentration as well as giggling unprovoked with features of infantile autism. Despite his physical and mental defects, his serum calcium, proteins and thyroid functions tests were all within normal limits. His cleft upper lip and palate were successfully repaired (Figure 1).

DISCUSSION

This patient, a native African, has all the composite features of Van der Woude syndrome: bilateral cleft upper lip and palate, discharging symmetrical lower lip sinuses and hypodontia. This syndrome is usually familial but could occur spontaneously without obvious family history as is the case in this patient. It is inherited as an autosomal dominant genetic disorder located at various loci on chromosome 1q, especially on loci 1q32.1 a region implicated in Van der Woude syndrome and microcephaly(2-5). Treatment involves staged cleft lip and palate repair as well as wedge excision of the sinuses with wound closed in eversion to prevent unsightly notching(1).

In the absence of facilities in Nigeria for detailed genetic studies such as karyotyping, a genetic basis for the associated mental retardation and small stature in this patient could not be established.

REFERENCES