Thrombocytopenia in dyschromatosis universalis hereditaria

S Pirasath¹, T Sundaresan¹, T Tamilvannan²

Ceylon Medical Journal 2012; 57: 124-125

Introduction

Dyschromatosis universalis hereditaria (DUH) is an extremely rare genodermatosis, characterised by hyper- and hypo-pigmented macules forming a reticulate pattern. We describe a patient with features of DUH.

Case report

A 14-year old boy presented to causality medical ward with history of left side chest pain and asymptomatic progressive mottled pigmentation over the trunk and limbs, which had been noted since birth and had become more noticeable with age. There was no history of photophobia or photosensitivity. They were born to healthy, non consanguineous parents, following an uneventful pregnancy. His mother and mother's sister also had a similar appearance. Physical examination showed numerous asymptomatic, generalised hyperpigmented macules of 0.5 cm interspersed with spotty hypopigmented macules. The lesions were denser on the limbs (Figure 1) than on the trunk (Figure 2). Mucosa was also involved (Figure 3). Palms and soles were not involved. The hair, nails and teeth appeared normal. There was no apparent atrophy, erythema or telangiectasia. Systemic examination did not show abnormalities. Biopsy from the hyperpigmented lesions revealed hyperpigmentation of basal and suprabasal cells, mild orthokeratosis and occasional melanophages with mild melanin incontinence suggestive of DUH (Figure 4). He also had severe thrombocytopenia, microcytic hypochromic anaemia, early signs of glaucoma and left side conduction deafness. Bone marrow biopsy revealed active megakaryopoiesis.

Figures 1 and 2. Hyper-pigmented macules interspersed with spotty hypo pigmented macules denser on the limbs (Figure 1) than on the trunk (Figure 2).

Figures 3. Hyper-pigmented macules interspersed with spotty hypo pigmented macules denser on the oral mucosa and tongue.

Figure 4. HE X100: The basal layer in the hyper pigmented lesions showed an increase in pigment along with melanin incontinence whereas the hypo pigmented lesions it showed a decrease in pigment.

¹Medical and ²Dermatology Unit, Teaching Hospital, Batticaloa, Sri Lanka.

Correspondence: SP, e-mail: <selladurapirasath81@gmail.com>. Received 8 November 2011 and revised version accepted 28 March 2012. Competing interests: none declared.
Discussion

Two major types of DUH have been described, based on distribution of lesions: dyschromatosis universalis hereditaria (DUH), in which a mixture of hyper and hypopigmented macules occur all over the body presenting as a generalised leukomelanoderma with relative sparing of the face, palms, and soles and dyschromatosis symmetrica hereditaria (DSH), which is characterised by a symmetrical distribution of hyperpigmented and hypopigmented macules on the extremities [1, 2]. Both conditions have been reportedly mostly fore Japan.

The aetiology of DUH is not known. It has been suggested that DUH is a disorder of the number of melanocytes. However, an electron microscopic study suggested that DUH may be a disorder of melanosome production in epidermal melanin units rather than a disorder of the number of melanocytes [3].

In DUH, skin lesions appear during the first few years of life. The trunk and extremities are the dominant sites. Facial lesions are uncommon. Involvement of palms and soles is unusual [4]. Abnormalities of hair and nails may occur.

The histopathology shows a focal increase or decrease in melanin content of the basal layer (depending on the type of the lesion biopsied) and occasionally pigmentary incontinence. In our case, histopathology of skin biopsy reveals hyperpigmentation of basal and supraboral cells, mild orthokeratosis, occasional melanophages and mild melanin incontinence (Figure 4). Number of melanocytes is within normal histological limits.

In this case, he has systemic manifestations such as severe thrombocytopenia, microcytic hypo chromic anaemia, early signs of glaucoma and left side conduction deafness. Thrombocytopenia has not been described as a feature of DUH before.

Generally, DUH does not progress or worsen with age. These is no definitive treatment for DUH. In our patient the disease has been stable for the past 14 years.

References

Partial ptosis, dilated pupils and ataxia following abamectin poisoning

H Karunatilake, S Amarasinghe, S Dassanayake, T Saparamadu, S Weerasinghe

Ceylon Medical Journal 2012; 57: 125-126

Introduction

Abamectin is a pesticide recently introduced to the local market. Human intoxication with abamectin is not previously reported in Sri Lanka. In contrast to common organophosphate poisoning presented with cholinergic signs patients with abamectin poisoning present with dilated pupils, ataxia and confusion. A patient was seen at our unit following poisoning with abamectin. We present clinical details of the case and follow it with a brief discussion on relevant toxicology.

Case report

A 30-year old man was transferred from a local hospital with acute onset confusion, blurred vision and unsteady gait. Three hours prior to presentation he had ingested nearly 40 ml of MIG18® (abamectin 18 gm/l). He was restless and agitated. He was unable to walk and ataxic on his feet. His Glasgow coma score was 9. He had partial ptosis of both eyes. The pupils were dilated (3 mm) and were reacting sluggishly to light. There was no fasciculation or excessive sweating. His lung fields were