Acknowledgment

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References


Naevus striatus unguis

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Introduction

A longitudinal pigmented band, presenting in the otherwise normal nail of a Caucasian patient is distinctly uncommon. Samman (1972) mentions the condition only briefly in Textbook of Dermatology and The Nails in Disease (Samman, 1965), and alludes to the cause as a junctional melanocytic naevus in the nail matrix. In view of its potential for malignant change, he prefers excision as the treatment of choice, after removal of the nail plate.

Pigmented bands in the nails of coloured patients are generally thought to be of less significance. The cases of two Caucasian patients who presented almost concurrently with this condition in a fingernail and a West Indian with the same clinical and histological findings in a toenail are now reported.

Case histories

Case 1

A 27-year-old Caucasian female presented with a longitudinal pigmented band in the left index fingernail (Fig. 1). It had been prominent for about 6 months, but apparently a faint yellowish brown streak had been present for some time previously. There was no history of trauma and the lesion was totally asymptomatic. Her general health was good. She was not on any medication and there was nothing of relevance in her family or past medical history.

On examination there was a narrow, brown longitudinal band which appeared to emerge from the nail matrix and involved the full length and thickness of the nail plate. No significant lymphadenopathy was detected and a diagnosis of junctional naevus of the nail of the matrix was made.

In view of the possibility of malignant change, it was decided to remove the nail plate and excise the matrix to include the suspected naevus. At operation, after avulsion of the nail, a small pigmented mark corresponding to the origin of the pigmented line, was found on the matrix. This was excised with a narrow margin and the defect sutured.

Histological examination revealed the presence of a small junctional melanocytic naevus.

Case 2

A 22-year-old Caucasian naval cook presented in 1972 with a dark brown, longitudinal band in his right thumbnail. This had appeared 2 years previously, apparently spontaneously, as he had no recollection of preceding trauma. A dermatologist made a clinical diagnosis of 'junctional naevus of the nail matrix' and advised periodic follow-up, but no
active treatment. When the patient was reviewed towards the end of 1975, the condition had apparently remained unchanged and on examination there was a broad, darkly pigmented band extending from the nail matrix to the free edge of the nail plate of the right thumbnail (Fig. 2). The band appeared to involve the whole thickness of the nail plate but the nail otherwise appeared to be normal and general examination was unremarkable. In view of the width of the band, it was decided to perform a Zadek's ablation of the nail, to include excision of the naevus. Following avulsion of the nail plate, exploration of the matrix and posterior nail fold failed to reveal a macroscopically evident lesion. Detailed histological examination of the specimen demonstrated the presence of a tiny junctional naevus.

Case 3
A 21-year-old West Indian girl presented with pruritus in the perineum and peri-anal warts. On routine examination she was found to have a 3 mm wide longitudinal brown line, extending the full length of the nail of the left great toe. According to her mother, this had been present since birth. It was totally asymptomatic, and had not increased in width relative to the nail.

The nail was subsequently avulsed, revealing a naevus of benign appearance in the nail bed (Fig. 3), which was totally excised.

Histology confirmed a benign junctional naevus.

Discussion
The commonest cause of blackening of part of the nail is a subungual haemorrhage or haematoma.
Dark streaks in the nails are not uncommon in the coloured races and are thought by many authorities, to be the result of very minor trauma and of no undue significance, but Bisht and Singh (1962) attributed them to malnutrition in Indians. The pigment in bands in the nails of coloured subjects is melanin, arising from normally functioning melanocytes in the matrix and according to Pillsbury, Shelley and Kligman (1956), the pigmentation is always benign.

According to Allenby and Snell (1966), these bands can occur in Addison’s disease. Brown nail-bed arcs affecting the distal part of the fingernail bed have been reported by Stewart and Raffle (1972) in chronic renal disease.

A longitudinal pigmented band in the nail is certainly less common in white subjects and the first case was reported by Montgomery (1917), who described a 36-year-old white man with a pigmented line in one thumbnail. It had developed shortly after superficial X-ray therapy for eczema of his hands and although there was no histological proof, Montgomery felt that there was a pigmented naevus situated in the nail groove, producing pigment in the newly formed nail. The condition was described as ‘naevus striatus symmetricus unguiis’ following case reports by Oppenheim and Cohen (1942) and Oliver and Bluefarb (1944). The potential gravity of a pigmented streak extending the length of the nail was illustrated by reports of malignant melanomata by Womack (1927), Engman, Mook and Engman (1931) and Pack and Adair (1939).

In 1952, Nobel, Ferrin, and Merandino reported an interesting case of a male white physician who, having had a brownish-black longitudinal hair-line stripe in the left fifth fingernail for about 4 years, noticed a thin darker line developing within the original stripe. Probably prompted by the sudden increase in pigmentation, a decision was made to amputate the terminal phalanx of the affected finger. Histological examination showed a benign junctional naevus of the nail matrix.

In 1960, Katherine Harvey reported the case of a 39-year-old Hungarian female who had developed a pigmented longitudinal stripe 4 years previously which had slowly extended laterally to involve the whole of the thumbnail, with the exception of a well-defined segment. The nail had recently cracked longitudinally without any apparent precipitating trauma. Considering the report by Pack and Adair (1939), in which they stated that a naevus should be regarded as clinically malignant when it breaks through the nail plate, it was decided to amputate the terminal phalanx. Histological examination revealed a junctional naevus.

The sparse literature to date, indicates that pigmented bands in the nails of white subjects are due to junctional melanocytic naevi or malignant melanomata. The present three cases are examples of the former and the authors support local excision as the treatment of choice. Should the clinical picture suggest more sinister change, a frozen section could be examined before more radical surgery is undertaken.

The fact that a solitary pigmented longitudinal band in the nail of a coloured patient proved to be due to a junctional naevus suggests that the same...
aetiology should be considered, irrespective of race. Multiple pigmented longitudinal bands in the nails of coloured patients may not have the same significance.

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References


Hereditary angio-oedema with mesangiocapillary glomerulonephritis

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Summary

A patient with hereditary angio-oedema (HAO) developed mesangiocapillary glomerulonephritis (MCGN) under observation. HAO is characterized by an inherited defect of complement—deficiency of C1 esterase. MCGN is often associated with another complement abnormality which leads to depression of serum C3 and there is some evidence that the complement abnormality precedes the nephritis. The coincidence of these two rare diseases in the present patient, and in one previously described, suggests that other complement abnormalities may predispose to the development of MCGN.

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Introduction

Hereditary angio-oedema (HAO) is a disease inherited as an autosomal dominant in which there is a deficiency of an inhibitor of the activated first component of complement (C1 esterase inhibitor). It is characterized by attacks of oedema of the skin and mucous membranes which may be life-threatening when the pharynx and larynx are involved (Donaldson and Evans, 1963; Hadjiyannaki and Lachmann, 1971; Beck et al., 1973).

Mesangiocapillary glomerulonephritis (MCGN) is a form of chronic glomerulonephritis with mesangial hyperplasia and capillary wall thickening thought to arise from the deposition of immune complexes either under (subendothelial type) or within (dense deposit type) the basement