Sir,
We report here a case of a Japanese man with an unusual congenital band-like naevus, consisting of a finely wrinkled skin area with a mosaic of hyper- and hypopigmented spots involving only the right side of his chest. To our knowledge, there are no previous reports of this presentation of congenital naevus.

CASE REPORT
A 36-year-old Japanese man presented with a band-like pigment-ed area on only the right side of his chest, which had been present since birth. As there had been no particular change in either its colour or size, he had not consulted a dermatologist previously. There was no family history of a similar skin change.

On his first visit, he had a well-suntanned skin due to his hobby of marine sports, together with a roughly S-shaped, band-like, and mildly pigmented, lesion localized only on the right side of the mid-chest (Fig. 1a). Although the skin texture appeared rough due to the presence of fine wrinkles, the lesions were in fact smooth on palpation. On closer inspection, the mildly pigmented plaque appeared more wrinkled than the surrounding normal skin, presenting a reticular pattern dotted with hyper- and hypopigmented spotty areas (Fig. 1b). The spotty changes were composed of variously sized, darkly hyperpigmented, hypopigmented or almost normal looking, finely wrinkled areas, which did not appear to conform to any of the so-far reported cases of congenital skin lesions. He had no other abnormalities in the skin, hair or teeth, and no clinically observable sexual ambiguity or family history of similar skin changes.

Histologically, in the darkly hyperpigmented spot, we found atrophic epidermis and basal hypermelanosis that was prominently noted at the tips of elongated rete ridges whose covering stratum corneum was somewhat thickened and compact containing scattered melanin granules. Moreover, there were scattered melanophages among a mild mononuclear cell infiltrate at the perivascular portion of the upper dermis. Neither a nest of melanocytes nor sclerosis of the dermis was detectable (Fig. 2a). Other mildly hyperpigmented portions showed thin epidermis, mild basal hypermelanosis and a few melanophages in the upper dermis. On the other hand, the hypopigmented spot revealed a thin epidermis covered by rather thick and compact stratum corneum with no changes suggestive of scar or amyloid deposition in the dermis (Fig. 2b). There were neither hair follicles nor eccrine sweat glands in the specimens. He did not require any further treatment for his skin lesion.

DISCUSSION
To our knowledge, the skin changes found in this patient are unique among the types of congenital naevus described to date. Its clinical feature had been stable since birth, showing a well-defined, band-like, finely wrinkled, mildly pigmentary skin area confined to the right side of the chest. On a closer examination, this consisted of hyper-, hypo-, and even depigmented spotty areas. If there had been any telangiectatic component, we could have described it as poikiloderma.tous. Although there was no clinical sign of inflammation, histologically we found that the pigmented areas showed mild hyperkeratosis covering an atrophic epidermis associated with focal basal hypermelanosis and pigmentary incontinence, suggestive of the presence of a preceding mild inflammatory event involving the epidermis and upper dermis.

Ardelean & Pope (1) reported a male case of Bloch-Sulzberger syndrome whose skin lesions tended to be more localized, such as unilateral involvement, than that of female cases. But our patient differed, in that there had been neither a remarkable preceding inflammatory stage nor evidence of hereditary occurrence such as that noted in incontinentia pigmenti. However, we cannot completely exclude the presence of a preceding inflammatory stage occurring during the foetal stage. The total lack of skin appendages in the lesions suggested the possibility of such a scar. However, in general, the pigmentation found in incontinentia pigmenti tends to disappear by adolescence.
Blaschko recognized a common pattern of skin involvement in congenital or acquired linear dermatoses from his observation of 175 patients, and described the clinical and pathophysiological aspects of Blaschko’s lines (2). Although we were not completely sure whether the present skin lesion was distributed according to Blaschko’s lines, in our differential diagnosis we also considered the possibility of several dermatoses that follow Blaschko’s lines, as listed in Table I. However, we could exclude almost all of these due to their clinical features and histopathological changes. In their description of Blaschko’s lines, as well as those skin diseases that follow these lines in detail, Bolognia et al. (2) described that the cutaneous lesions that follow Blaschko’s lines constitute an important clue to reach a final diagnosis, since they seem to reflect the path of embryonal development of the cutaneous structures. Happle and coworkers (3,4) hypothesized that mosaicism was responsible for all of the abnormal skin changes developing along Blaschko’s lines. Supporting the hypothesis, Taibjee et al. (5) reported that 88% of cases of pigmentary anomalies developing along Blaschko’s lines had chromosomal abnormalities, which were overlapped with one or more pigmentary genes. In addition, they speculated that chromosomal abnormalities invisible at the gross karyotypic level, such as microdeletions or point mutations, might be present in other cases (5). There is accumulating evidence indicating that both hypomelanosis of Ito and related disorders, such as linear and whorled nevoid hypermelanosis, are all due to mosaicism of a variety of chromosomal abnormalities, i.e. chimerism, chromosomal mosaicism, somatic mutations, and half-chromatid mutations (3–10). Thus, this group of disorders has been suggested to be “pigmentary mosaicism” in general (5).

In an analysis of 54 children with pigmentary anomalies present along Blaschko’s lines, Nehal et al. (6) found that 36 patients (67%) had hypopigmentation, 13 (24%) had hyperpigmentation, and 5 (9%) had a combination of hyperpigmentation and hypopigmentation. In addition, there have been some cases of pigmentary mosaicism with both hyperpigmentation and hypopigmentation. However, all of these reported cases (3–10) displayed hyperpigmentation that was present apart from hypopigmentation in each line or macule, unlike our present patient.

Unfortunately, we could not perform any molecular analysis in this naevus to exclude incontinentia pigmenti. However, to the best of our knowledge, such a clinical feature consisting of four types of pigmentary changes, i.e. a mixed pattern of darkly hyperpigmented, lightly hyperpigmented, hypopigmented, and normally pigmented skin, involving only one localized area has not been reported previously.

REFERENCES


<table>
<thead>
<tr>
<th>Table I. Similar skin conditions that follow Blaschko’s lines reported in the literature to date (1–10)</th>
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</thead>
<tbody>
<tr>
<td>Segmental naevus depigmentosus</td>
</tr>
<tr>
<td>Incontinentia pigmenti (Bloch-Sulzberger syndrome)</td>
</tr>
<tr>
<td>Reticulate hyperpigmentation of Iijima</td>
</tr>
<tr>
<td>Linear atrophoderma of Moulin</td>
</tr>
<tr>
<td>Linear and whorled nevoid hypermelanosis</td>
</tr>
<tr>
<td>Linear scleroderma</td>
</tr>
</tbody>
</table>

Acta Derm Venereol 89