Management includes protection from exposure to ultraviolet light, genetic counselling and follow-up for malignancies. Amniocentesis for cell culture and early interruption of pregnancy may aid in prevention.

REFERENCES


Superficial Fungal Infections in Newborns

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Superficial fungal infections in the newborn period are extremely rare and include candidiasis, aspergillosis and dermatophytosis(1,2). Although dermatophytes are ubiquitous, most exposures do not result in clinical infections(3). Congenital eu-

taneous candidiasis, often extensive but benign form of neonatal infection, is an uncommon entity(3). We report three cases of neonatal superficial fungal infections seen among 16,000 babies over a 5-year period.

Case Reports

Case 1: A full term male baby, developed rashes on the 3rd day of life which became generalized discrete pustules on the 4th day. The lesions involved even the palms and soles (Fig. 1), but spared the scalp and genitalia. The baby was free of constitutional symptoms. A smear from the lesions revealed Candida and culture con-

Fig. 1. Close-up of upper limb showing the pustular lesions.

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firmed the presence of *Candida albicans*. Blood culture for *Candida* was negative. There was no oral thrush. His mother had vaginal candidiasis. Local application of gentian violet paint over 4 days made the pustules dry, leaving behind mildly scaly erythematous skin. The follow-up after a week showed normal skin and the child was healthy 3 months later.

**Case 2:** A female baby, on the 16th day developed erythematous, well defined patches on the face, chest and abdomen (Fig 2). The lesions had minimal marginal scaling and tiny pustules on the edges. A scraping for fungus was positive by microscopy and culture grew *Microsporum canis*. The mother was suffering from paraplegia and had patches of *Tinea corporis* on her body. One month treatment with 1% clotrimazole application twice a day cured the condition.

**Case 3:** A term male baby who had severe birth asphyxia and seizures on the first day of life, developed oral thrush on the fifth day. An erythematous patch appeared on the back on 7th day with well demarcated raised edges and peripheral tiny vesicles. *Tinea corporis* was identified by microscopy of the scrapings from the lesion. The culture grew *Trichophyton rubrum*. The baby was treated with oral gentian violet point for the thrush. The local application of clotrimazole cream twice daily to the skin cleared lesions. The mother had no evidence of *Tinea corporis*.

**Discussion**

Neonatal candidiasis represents acquisition of the organism during vaginal passage and usually presents with mucocutaneous lesions after the first week of life(4,5). The present case had manifestations on the 3rd day. The reported incidence of congenital candidiasis is 1%(6). The generalized pustular form seen in our case is rare(7,8). The infants who develop congenital cutaneous candidiasis are immunologically normal(3). The prognosis for neonatal candidiasis is excellent as in our case and they respond to topical antifungal therapy(5,9).

Neonatal dermatophyte infection is rare and there are very few documented cases in the literature. In King et al's series(10) of five infants with *Tinea corporis*, there was only one 3 weeks old neonate. Pavithran et al. reported *Tinea corporis* in a 9-day old premature infant(1). A one and half months old infant with
dermatophytic infection was reported by Khare et al. It presents as one or several circular erythematous patches with a papular, scaly, annular border and a clear centre or it may be inflammatory throughout(1,7). Diagnosis is confirmed by microscopy of potassium hydroxide preparation from the lesion. Cultures are usually not necessary for diagnosis(7). In the first case, the mother was the obvious source of infection who had extensive Tinea corporis whereas in the second case no source of infection was evident. One of the many visitors who have handled and cuddled the baby could have transmitted the disease to the baby. Moreover, the baby had the insults of obstructed labor, severe birth asphyxia and administration of broad spectrum antibiotics.

REFERENCES


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Freeman Sheldon Syndrome with Bilateral Simian Crease and Malpositioned Second Toes

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The Freeman Sheldon Syndrome, also known as whistling face syndrome or cranio-carpo-tarsal dystrophy, was first described in 1938 by Freeman and Shel-