

**The Indian Journal of Dermatology,  
Venereology and Leprology (IJDVL)**

is a bimonthly publication of the Indian Association of Dermatologists, Venereologists and Leprologists (IADVL) and is published for IADVL by Medknow Publications.

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**Published for IADVL by**

**MEDKNOW PUBLICATIONS**

A-109, Kanara Business Centre, Off Link Road,  
Ghatkopar (E), Mumbai - 400075, India.  
Tel: 91-22-6649 1818 / 1816  
Website: www.medknow.com

# Indian Journal of Dermatology, Venereology & Leprology

Journal indexed with SCI-E, PubMed, and EMBASE

Vol 74 | Issue 1 | Jan-Feb 2008

C O N T E N T S

## EDITORIAL REPORT - 2007

### JDVL gets into the Science Citation Index Expanded!

Uday Khopkar ..... 1

## EDITORIAL

### Registration and reporting of clinical trials

Uday Khopkar, Sushil Pande ..... 2

## SPECIALTY INTERFACE

### Preventing steroid induced osteoporosis

Jyotsna Oak ..... 5

## REVIEW ARTICLE

### Molecular diagnostics in genodermatoses - simplified

Ravi N. Hiremagalore, Nagendrachary Nizamabad, Vijayaraghavan Kamasamudram ..... 8

## ORIGINAL ARTICLES

### A clinicoepidemiological study of polymorphic light eruption

Lata Sharma, A. Basnet ..... 15

A clinico-epidemiological study of PLE was done for a period of one year to include 220 cases of PLE of skin type between IV and VI. The manifestation of PLE was most common in house wives on sun exposed areas. Most of the patients of PLE presented with mild symptoms and rash around neck, lower forearms and arms which was aggravated on exposure to sunlight. PLE was more prevalent in the months of March and September and the disease was recurrent in 31.36% of cases.

### Comparative study of efficacy and safety of hydroxychloroquine and chloroquine in polymorphic light eruption: A randomized, double-blind, multicentric study

Anil Pareek, Uday Khopkar, S. Sacchidanand, Nitin Chandurkar, Geeta S. Naik ..... 18

In a double-blind randomized, comparative multicentric study evaluating efficacy of antimalarials in polymorphic light eruption, a total of 117 patients of PLE were randomized to receive hydroxychloroquine and chloroquine tablets for a period of 2 months (initial twice daily dose was reduced to once daily after 1 month). A significant reduction in severity scores for burning, itching, and erythema was observed in patients treated with hydroxychloroquine as compared to chloroquine. Hydroxychloroquine was found to be a safe antimalarial in the dosage studied with lesser risk of ocular toxicity.

**Many faces of cutaneous leishmaniasis**

Arfan Ul Bari, Simeen Ber Rahman .....

Symptomatic cutaneous leishmaniasis is diverse in its presentation and outcome in a tropical country like Pakistan where the disease is endemic. The study describes the clinical profile and atypical presentations in 41 cases among 718 patients of cutaneous leishmaniasis. Extremity was the most common site of involvement and lupoid cutaneous leishmaniasis was the most common atypical form observed. Authors suggest that clustering of atypical cases in a geographically restricted region could possibly be due to emergence of a new parasite strain.



23

**Forehead plaque: A cutaneous marker of CNS involvement in tuberous sclerosis**

G. Raghu Rama Rao, P. V. Krishna Rao, K. V. T. Gopal, Y. Hari Kishan Kumar, B. V. Ramachandra .....

In a retrospective study of 15 patients of tuberous sclerosis, eight patients had central nervous system involvement. Among these 8 cases, 7 cases had forehead plaque. This small study suggests that presence of forehead plaque is significantly associated with CNS involvement.

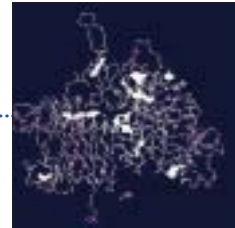


28

**BRIEF REPORTS**

**Ligand-binding prediction for ErbB2, a key molecule in the pathogenesis of leprosy**

Viroj Wiwanitkit.....



32

**SCORTEN: Does it need modification?**

Col. S. S. Vaishampayan, Col. A. L. Das, Col. R. Verma .....

35

**CASE REPORTS**

**Universal acquired melanosis (Carbon baby)**

P. K. Kaviarasan, P. V. S. Prasad, J. M. Joe, N. Nandana, P. Viswanathan .....



38

**Adult onset, hypopigmented solitary mastocytoma: Report of two cases**

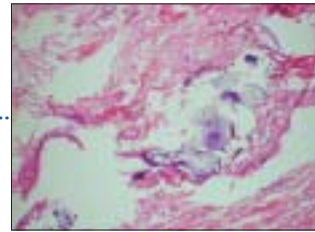
D. Pandhi, A. Singal, S. Aggarwal.....



41

**Incidental finding of skin deposits of corticosteroids without associated granulomatous inflammation: Report of three cases**

Rajiv Joshi .....



44

**Erythromelanosus follicularis faciei et colli: Relationship with keratosis pilaris**

M. Augustine, E. Jayaseelan .....



47

**Naxos disease: A rare occurrence of cardiomyopathy with woolly hair and palmoplantar keratoderma**

R. Rai, B. Ramachandran, V. S. Sundaram, G. Rajendren, C. R. Srinivas .....



50

**Granular parakeratosis presenting with facial keratotic papules**

R. Joshi, A. Taneja .....



53

**Adult cutaneous myofibroma**

V. Patel, V. Kharkar, U. Khopkar .....



56

**LETTERS TO THE EDITOR**

**Extragenital lichen sclerosus of childhood presenting as erythematous patches**

N. G. Stavrianeas, A. C. Katoulis, A. I. Kanelleas, E. Bozi, E. Toumbis-Ioannou .....



59

**Leukocytoclastic vasculitis during pegylated interferon and ribavirin treatment of hepatitis C virus infection**

Esra Adisen, Murat Dizbay, Kenan Hize, Nilsel İlter .....

60

**Poland's syndrome**

Saurabh Agarwal, Ajay Arya..... 62

**Hereditary leiomyomatosis with renal cell carcinoma**

Sachin S. Soni, Swarnalata Gowrishankar, Gopal Kishan Adikey,  
Anuradha S. Raman ..... 63

**Infantile onset of Cockayne syndrome in two siblings**

Prerna Batra, Abhijeet Saha, Ashok Kumar ..... 65

**Multiple xanthogranulomas in an adult**

Surajit Nayak, Basanti Acharjya, Basanti Devi, Manoj Kumar Patra ..... 67



**Bullous pyoderma gangrenosum associated with ulcerative colitis**

Naik Chandra Lal, Singh Gurcharan, Kumar Lekshman, Lokanatha K..... 68



**Sporotrichoid pattern of malignant melanoma**

Ranjan C. Rawal, Kanu Mangla..... 70



**Acitretin for Papillon-Lefèvre syndrome in a five-year-old girl**

Didem Didar Balci, Gamze Serarslan, Ozlem Sangun, Seydo Homan ..... 71

**Bilateral Becker's nevi**

Ramesh Bansal, Rajeev Sen..... 73



**RESIDENTS' PAGE**

**Madarosis: A dermatological marker**

Silonie Sachdeva, Pawan Prasher ..... 74

**FOCUS**

**Botulinum toxin**

Preeti Savardekar ..... 77

**E-IDVL**

**Net Studies**

**A study of oxidative stress in paucibacillary and multibacillary leprosy**

P. Jyothi, Najeeba Riyaz, G. Nandakumar, M. P. Binitha ..... 80

**Clinical study of cutaneous drug eruptions in 200 patients**

M. Patel Raksha, Y. S. Marfatia ..... 80

**Net case**

**Porokeratosis confined to the genital area: A report of three cases**

Sujata Sengupta, Jayanta Kumar Das, Asok Gangopadhyay ..... 80

**Net Letters**

**Camisa disease: A rare variant of Vohwinkel's syndrome**

T. S. Rajashekar, Gurcharan Singh, Chandra Naik, L. Rajendra Okade ..... 81

**Cross reaction between two azoles used for different indications**

Arika Bansal, Rashmi Kumari, M. Ramam ..... 81

**Net Quiz**

**Asymptomatic erythematous plaque on eyelid**

Neeraj Srivastava, Lakhan Singh Solanki, Sanjay Singh ..... 82



**QUIZ**

**A bluish nodule on the arm**

Ragunatha S., Arun C. Inamadar, Vamseedhar Annam, B. R. Yelikor ..... 83



**REFEREE INDEX-2007**

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## A bluish nodule on the arm

A 21-year-old male presented with an asymptomatic, slow-growing swelling on the left arm of 4 years duration. He gave history of expression of black-colored fluid and, sometimes, blood when punctured. On examination, solitary, sessile, globular, well-circumscribed bluish nodule, measuring 2 cm in diameter, was present on the lower part of his left arm [Figure 1]. The surface of the nodule was smooth, with visible

superficial vessels. On palpation, the nodule was freely mobile, nontender and soft in consistency, with firm base. An excisional biopsy showed a single cyst (3 mm) containing black-colored material. Histopathological features are shown in Figures 2-3.

### WHAT IS YOUR DIAGNOSIS?



Figure 1: Well-demarcated round bluish nodule on the arm

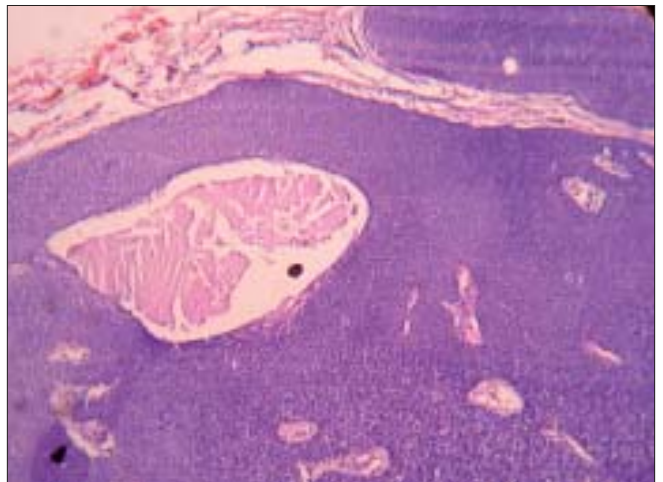


Figure 3: Tumor cells arranged in lobules separated by fibrovascular septae (H and E stain, X100)

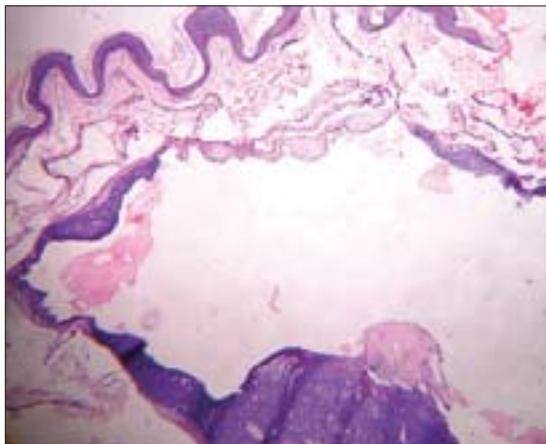


Figure 2: Tumor containing solid areas and cystic spaces separated from thin epidermis (H and E stain, x40)

**How to cite this article:** Ragunatha S, Arun CI, Vamseedhar A, Yelikar BR. Indian J Dermatol Venereol Leprol 2008;74:83-5.

**Received:** November, 2006. **Accepted:** April, 2007. **Source of Support:** Nil. **Conflict of Interest:** None declared.

## Diagnosis: Nodular hidradenoma

Histopathology showed well-circumscribed tumor with solid and cystic areas [Figure 2], arranged in lobules separated by thin fibrovascular septae [Figure 3]. Two types of tumor cells were seen. One was oval-to-polyhedral with round-to-oval basophilic nucleus and moderate amount of eosinophilic cytoplasm. The other was round-to-oval with small hyperchromatic nucleus, and moderate amount of pale cytoplasm was also seen within the tumor. There were cystic spaces of varying sizes containing mucinous material lined by single-to-multilayered cuboidal epithelium. At some areas, degenerating tumor cells secreting their contents into the cystic spaces were noted.

## DISCUSSION

Nodular hidradenomas (NHs) are primitive adnexal tumors that show differentiation towards eccrine and apocrine apparatus.<sup>[1]</sup> Clinically, NH presents as slow-growing, firm, solitary, bluish-red mobile nodule, mainly situated over scalp, face, trunk and occasionally on the extremities.<sup>[2]</sup> Rarely, it may be cystic, pedunculated or ulcerated.<sup>[3]</sup> The size of the nodule varies from 5 to 30 mm in diameter.<sup>[1]</sup> However, a size up to 10 cm has been reported.<sup>[3]</sup> The overlying skin is stretched and atrophic with visible surface vasculature.<sup>[4-6]</sup> NH is usually seen in adults with an average age of 37.2 years and a female-to-male ratio of 1.7:1.<sup>[7]</sup> Though usually seen between the fourth and eighth decade of the life, cases have been reported in young children.

Since there are no specific features to diagnose NH clinically, the histopathological study is essential for the correct diagnosis. Microscopically, NH is a circumscribed noncapsulated dermal tumor, sometimes extending into the subcutaneous tissue, with solid areas, cystic spaces and tubular lumina. The solid area is characterized by three types of cells: polyhedral cells with round nucleus and basophilic cytoplasm, similar to cuboidal ductal cells; fusiform cells with elongated nucleus located at the periphery of the tumor, representing myoepithelial cells; and round cells with small dark nucleus and clear cytoplasm, representing secretory coil cells. Occasionally there may be foci of squamoid differentiation with horn pearls, representing intraepidermal ductal cells.<sup>[8]</sup> Similarly, tubular lumina are also lined by four types of cells representing cells of different parts of the sweat gland.<sup>[3]</sup> Often there are cystic spaces of considerable size bordered by tumor cells. Formation of these cystic spaces is attributed to the degeneration of tumor cells. Sometimes, tumor nodules show areas of

eosinophilic hyalinized stroma.<sup>[8]</sup> Other cellular variants include oncocytic, epidermoid and pigmented variants with melanocytes and melanin pigment in the cells and macrophages.<sup>[9]</sup>

Multiple foci of growth, atypical mitoses, zonal necrosis and invasion of vascular and perineural sheath indicate the possibility of hidradenocarcinoma.<sup>[11]</sup> Histologically, tricholemmoma also shows clear cells. However, tricholemmoma shows peripheral palisading of tumor cells with the absence of cystic spaces and tubular structures.<sup>[8]</sup>

On fine needle aspiration cytology (FNAC), NH is usually misdiagnosed as breast carcinoma when it presents as breast lump with ulceration<sup>[10]</sup> and as cutaneous metastasis of conventional-type renal cell carcinoma.<sup>[11]</sup> Since such cases are usually referred to FNAC, the knowledge of cytological features of NH can aid in the proper diagnosis of the condition. On FNAC, NH is diagnosed by the presence of many clear cells amidst polygonal tumor cells.<sup>[10]</sup> NH may also arise from nevus sebaceous as a result of dysembryoplasia<sup>[12]</sup> and from mammary duct as subareolar nodule with nipple discharge.<sup>[13]</sup>

NH is a benign tumor but malignant transformation with metastasis has been reported.<sup>[14]</sup> Local recurrences can occur if the tumor is incompletely excised.<sup>[9]</sup> Though mitoses do not necessarily indicate the malignancy, their presence is associated with increased local recurrences and subsequent malignant transformation.<sup>[9]</sup> Surgical excision is the recommended treatment.<sup>[14]</sup>

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