Uncommon Elderly-Onset Nevus Lipomatosus Cutaneous Superficialis: A Case Report with Dermoscopic and Histopathologic Correlation

Suparuj Lueangarun¹*, and Therdpong Tempark²

¹Division of Dermatology, Thammasat University, Thailand
²Department of Pediatrics, Chulalongkorn University, Thailand

Submission: May 07, 2018; Published: May 11, 2018

*Corresponding author: Suparuj Lueangarun, Division of Dermatology, Chulabhorn International College of Medicine, Thammasat University, Amphur Klongluang, Thailand, Tel: +66624625142; Email: aoraya180@gmail.com

Abstract
Nevus lipomatosus cutaneous superficialis (NLCS) is a rare hamartoma of the skin characterized by histological presence of ectopic mature adipocyte in the dermis. We presented an uncommon case of the adult-onset classical form of NLCS, with the correlations between dermoscopy and histopathology of homogenous yellowish area, corresponding to the histological finding of mature fat cell in upper dermis for the diagnosis of this type of skin condition.

Keywords: Nevus lipomatosus cutaneous superficialis; Hamartoma; Dermoscopy; Histopathology

Introduction
Nevus lipomatosus cutaneous superficialis (NLCS) is a rare cutaneous hamartoma histologically characterized by the group of mature adipocyte presenting among the collagen bundles of the dermis. Clinically, this condition is classified into 2 types:

a) a classical or multiple type, usually presented at birth or in the first two to three decades of life with the clinical group of soft, painless, cerebriform, pedunculated, yellowish or skin colored papules or nodules, and

b) a solitary type, usually developed in adults with solitary papule or nodule. Most importantly, few cases of adult-onset multiple types of NLCS were reported [1-3].

Case Report
A 74-year-old female presented with the 1-year history of progressively increased numbers and sizes of asymptomatic yellowish papules on the left upper thigh. She was otherwise in good health even with her insignificant medical history. As well, there was no history of local trauma, rubbing or scratching of the affected sites, atopy or other significant underlying problems, and no related Cutaneous problem in family members. Besides, physical examination revealed groups of multiple, soft, smooth, yellow-colored papules and nodule on left upper lateral thigh, approximately 12 x 10 cm in size, and the largest nodule of 1 cm in diameter (Figure 1).

Whereas, the dermoscopic examination demonstrated multiple well-circumscribed, homogenous faint yellowish areas without abnormal vascular structure (Figure 2). Moreover, the histopathologic examination from the largest nodule showed multiple nests of lipocytes in the upper and mid dermis, with the absence of skin appendages in this area, and normal overlying epidermis (Figure 3). Hence, the diagnosis of nevus lipomatosus cutaneous superficialis (NLCS) was confirmed.
Our differential diagnoses include smooth muscle hamartoma, plexiform neurofibroma, cutaneous leiomyoma, and xanthogranuloma. Whilst, the definite diagnosis requires histopathologic study to yield the characteristically histopathologic finding of ectopic mature adipocytes lying within the upper reticular dermis between collagen bundles and around the blood vessels of the papillary dermis [8].

Additionally, the role of dermoscopy is crucial as a non-invasive and useful tool for the diagnosis of many pigmented and non-pigmented cutaneous lesions. In our present case, the dermoscopic finding of homogeneous yellowish area corresponds to the adipocyte in the dermis, and the lack of vascular structure is also correlated with most components of mature fat cells in the dermis with rare dilated capillaries from histology.

Furthermore, the yellowish color of fatty tissue findings from dermoscopy also provide useful information for the diagnosis of other skin conditions with adipocyte components such as cutaneous lipomatous neurofibroma [9]. However, the various shades of homogeneous yellow color on dermoscopic finding have been described in another condition including sebaceous glands hyperplasia, tumors with sebaceous differentiation [10], and dermal xanthomatous deposition diseases such as xanthomatous dermatofibroma, reticulohistiocytoma, and adult xanthogranuloma [11]. Particularly, Juvenile xanthogranuloma reveals the characteristically dermoscopic findings of the ‘setting sun’ appearance with the orange-yellow background of a subtle erythematous border [12].

In the meantime, treatment for NLCS is unnecessary, except for cosmetic reasons. Following the conservative approach of reported treatment, the lesions however tend to increase in size and number, while occasionally present with rare ulcerated complication [13].

Moreover, liquid nitrogen cryotherapy has been reported in individual lesions with a partial response [14]. Nevertheless, there is only one report that shows the effectiveness of CO2 laser ablation therapy for classic NLCS [15]. Thus, the treatment of choice seems to be the surgical excision. However, the classic form of clustered lesions is still limited, in term of large area involvement. Also, no recurrence and malignant transformation has never been before reported [4].

Conclusion

We report a rare case of adult-onset classical NLCS on the left lateral upper thigh, with the dermoscopic finding of homogenous yellowish area corresponding to the histological finding of mature fat cells in the upper dermis for the diagnosis implementation of this skin condition.

References

6. Holtz KH. Histology of naevus lipomatoses cutaneous superficialis (Hoffmann-Zurelle). 19551201 DCOM- 20030501 (0300-8614 (Print)).

This work is licensed under Creative Commons Attribution 4.0 License
DOI: 10.19080/JOJDC.2018.01.555552

Juniper Online Journal of Dermatology & Cosmetics

Your next submission with Juniper Publishers will reach you the below assets

- Quality Editorial service
- Swift Peer Review
- Reprints availability
- E-prints Service
- Manuscript Podcast for convenient understanding
- Global attainment for your research
- Manuscript accessibility in different formats
  - (Pdf, E-pub, Full Text, Audio)
- Unceasing customer service

Track the below URL for one-step submission

https://juniperpublishers.com/online-submission.php