A Teen Lesion of Confluent and Reticulated Papillomatosis (CRP)

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A nineteen-year-old Bahraini male with a diagnosis of confluent and reticulated papillomatosis received numerous treatments with minimal response. The patient responded favorably to the treatment of oral minocycline for 6 weeks plus topical mupirocin and has remained since then in remission.

Confluent and reticulated papillomatosis (CRP) is a rare chronic skin disease which usually affects adolescents. The patient seeks treatment only for cosmetic reasons.

The diagnosis of CRP should be considered if the lesion does not respond to antifungal treatment.

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Confluent and reticulated papillomatosis (CRP) is also known as Gougerot-Carteaud syndrome; it is a rare skin disease typically affecting teenagers. CRP is characterized by small grayish blue hyperkeratotic papillomatosis located on the trunk. Lesions typically begin as hyperkeratotic small papules (1-2 mm) which enlarge and coalesce (4-5 mm) to form grayish brown papules and plaques in a confluent pattern centrally (on the midline region) and with a reticular pattern peripherally. Commonly, it begins on the skin of the intermammary or epigastric region, spreading over a period of weeks or months to axillae, groin, face, neck, arms, trunk, cheeks, pubic area, interscapular region, shoulders, the proximal extremities, and forehead. The mucus membranes are spared. Skin markings are sometimes exaggerated, especially in the neck and the axillae (dirty neck and axillae), where the skin may be thickened. Scraping of the lesions produces a fine powdery scale.

CRP may rarely signify an underlying disease (endocrine disturbance, associated obesity, rapid weight gain, disorder of keratinization, ultraviolet reaction or hereditary familial disorder). The eruption is a chronic disorder which responds well to treatment, but it has history of exacerbations and relapse; it affects both black and white people.

The ratio of females to males has been reported 2.8:1, but Schwartz thought that the ratio is probably closer to 1.4:1. The onset usually occurs shortly after puberty (18.5-21 years); the mean age of the affected patients in Middle East is 19 years. Most patients are asymptomatic and usually seek treatment for cosmetic reasons.

The aim of this report is to highlight the clinical and histopathological diagnostic criteria for confluent and reticulated papillomatosis (CRP).
THE CASE

A nineteen-year-old Bahraini male presented with grayish blue hyperkeratotic small papillomatosis at midline of the abdominal region as confluent lesion which spread to form a reticular lesion over the suprasternal notch and on the left supraclavicular fossa. The patient was asymptomatic for 6 months, see figures 1, 2, and 3. He had no response to multiple local antifungal treatments. In addition, there was negative potassium hydroxide fungal test for Pityrosporum orbiculare or Pityrosporum ovale spores.

Figure 1: Grayish Blue Papules and Plaques in a Confluent Pattern on the Midline of Abdominal Region

Figure 2: Close View of Grayish Blue Papules and Plaques in a Confluent Pattern on the Midline Abdominal Region
Figure 3: Grayish Brown Papules and Plaques in Reticular Pattern Peripherally (Suprasternal Notch and Supraclavicular Fossa)

The diagnosis of CRP was confirmed histopathologically and clinically, see figure 4.8.

Figure 4: Histopathology Showing Basket-Weave Horn, Papillomatosis of Epiderms With Deep Depressions, Thin Epidermis and Rete Ridges, Fusion of Adjacent Rete Ridges Forming X and Y Configurations and Slight Hyperpigmentation of the Basal Layer

The patient responded favorably on treatment of oral minocycline 100 mg twice daily for 6 weeks with topical mupirocin 2% (bactroban).

DISCUSSION

The main criteria for diagnosis of CRP are the following: grayish brown macules and the patches appearing as reticulated and papillomatous involving the upper trunk and neck, fungal staining of scales is negative, no response to antifungal treatment and excellent response to minocycline8.
Educating the patient that CRP is a disorder of the skin which results in cosmetic disfigurement and has no adverse systemic effects is essential. Our patient showed successful response to the treatment of oral minocycline 100 mg twice daily for 6 weeks with topical mupirocin 2% (bactroban). Other modalities of antibacterial treatments include fusidic acid 1000 mg daily, clarithromycin 500 mg daily, erythromycin 1000 mg daily, tetracycline 500 mg twice daily, and cefdinir 300 mg twice daily. Other treatments include isotretinoin, acitretin, and etretinate, selenium sulfide, ketoconazole cream, tazarotene, tacalcitol, and calcipotriene (calcipotriol).

CONCLUSION

CRP is skin disease typically affecting adolescents. Family physician should be familiar with the criteria of CRP diagnosis. The presented case of CRP showed good response to the treatment with minocycline.

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REFERENCES

