

Successful treatment of oral pigmented spots in Chinese subjects with Peutz-Jeghers syndrome using a 755-nm picosecond laser

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Sir,

Picosecond 755-nm alexandrite laser is a novel type of short pulse width laser used for treating pigmented skin diseases. It has achieved good results in the treatment of pigment-enhancing skin diseases such as freckles and nevus of Ota.^{1,2} However, its usefulness in Peutz-Jeghers Syndrome has not been reported yet. We report two patients who responded successfully to picosecond 755-nm alexandrite laser.

Two patients, one a 17-year-old female and another a 15-year-old male, presented with multiple well-defined irregular brown to black macules on the upper and lower lips. The macules were present since early childhood and were increasing in number with age. No similar macules were observed elsewhere in the body. Both patients gave history of abdominal pain and the second patient had frequent diarrhea also. Hence, they had undergone colonoscopy which revealed intestinal polyps and those were surgically resected. A diagnosis of PJS was made in both the cases. Neither of them had any family history of genetic disorders.

Picosecond 755-nm alexandrite laser (Picosure®; Cynosure; Westford, MA) was used to treat the hyperpigmented macules on the lips of both the patients. No topical anaesthesia was used. For the first patient, an energy setting of 2.83 to 4.07 J/cm² and spot size from 2.5 to 3.0mm was used and she received a total of two sessions delivered at three-monthly interval. The second patient received only one treatment session with an energy setting of 2.08 to 2.83 J/cm² and spot size from 3.0 to 3.5 mm. Independent physician assessment revealed 50%–75% improvement after three months in both the patients and an almost 100% improvement was noted in the first patient after the second treatment session [Figures 1 and 2]. The first patient did not have any remarkable side effects whereas the second patient developed erythema and edema but had no long-term adverse effects such as pigmentation or scar



Figure 1a: Clinical images. Patient 1: Before treatment



Figure 1b: Clinical images. Patient 1: After first treatment session



Figure 1c: Clinical images. Patient 1: After second treatment session

formation. Even after one year no evidence of recurrence was seen in either of the patients.

PJS is an epidermal pigmentation disorder characterized by mucocutaneous lentigenes. Recently, short pulse width lasers

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