



LASERS

BOWENOID PAPULOSIS WHICH WAS TREATED BY CO₂ LASER

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Background: Bowenoid papulosis is a rare premalignant condition caused by HPV. Clinical manifestation of bowenoid papulosis is asymptomatic papule with smooth surface, 2 mm-20 mm in size, brown or brownish black. Bowenoid papulosis usually located in genitalia. CO₂ laser is one of the therapies that can be used on bowenoid papulosis. It permits precise tissue ablation by spatial confinement of thermal damage and effective vaporization, which promotes rapid healing without scar formation in most cases. CO₂ laser for bowenoid papulosis gave a good result and the rate of recurrence is between 12,5% and 21%. From previous study, bowenoid papulosis lesion completely disappear and no recurrence was reported after 2-5 cycles of CO₂ laser.

Observation: A 39 year old, unmarried male presented with asymptomatic hyperpigmented papules and plaques on the base of penile shaft for the past one year. The patient reported that he had had multiple sexual partners up to four years earlier. On examination there were some well defined, hyperpigmented papules and plaques on the base of penile shaft. Skin biopsy from the lesion on the base of penile shaft showed parakeratosis, acanthosis, atypic mitosis, and blood vessels dilatation. On the basis of the clinical and histological features, the case was diagnosed as bowenoid papulosis and treated with one cycle of CO₂ laser. CO₂ laser was performed encompass five mm margin of normal epidermis around each lesion to help reduce the viral burden. At one month of monitoring, there was small lesion reappear at the same location.

Key message: Monitoring of bowenoid papulosis after CO₂ laser is needed to assess the recurrence that occurs after therapy.

