PHOTOTHERAPY, PHOTODYNAMIC THERAPY

A CLINICAL TRIAL USING CARBON DIOXIDE LASER COMBINED WITH 5-AMINOLEVULINIC ACIDS BASED PHOTODYNAMIC THERAPY IN TREATING NASAL BASEL CELL CARCINOMA

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History: A new growth c of a 87-year-old man has gradually increased for more than 4 years. During the period ,it was tender to the touch and occasionally bleeds with minimal trauma. Antibiotic ointment was ineffective for it. The patient denied the history of hypertension, diabetes, tuberculosis and malignant tumor. Denial of the history of surgery. There are no similar patients in the family.

Physical examination: a brown round nodule was found on the right back of nose ,with size of 1.5cm*1.5cm*0.6cm, uneven pigment, uneven surface. There were small ulcers and erosions sacttered on it. The superficial lymph nodes were not enlarged. There was no abnormality found in other systematic examination.

Auxiliary examination: laboratory examination: Full blood cell count, urine routine, liver and kidney function, serum tumor series, CD4 cell count, CD8 cell count, anti-neutrophil cytoplasm antibody test, HIV serotest, serum treponema pallidum particle agglutination assay (TPPA) and rapid plasma reagin (RPR) titre were normal or negative. The histopathological examination of the lesion: basal cell carcinoma.

Diagnosis: Basal cell carcinoma

Differential diagnosis: It should be identified with Bowen disease, keratoderma, squamous cell carcinoma, malignant melanoma and so on.

Treatment: 5-aminolevulinic acids based photodynamic therapy (PDT) once a week was uesed to treat. After the treatment for 2 times, the tumor was significantly reduced. Combined with the treatment of carbon dioxide laser , PDT was followed once a week for 6 times. There was no recurrence after follow-up for one year.