



PHOTOTHERAPY, PHOTODYNAMIC THERAPY

## **BASAL CELL CARCINOMA ON ACTINIC KERATOSIS EFFECTIVELY TREATED WITH COMBINATION PHOTODYNAMIC THERAPY AND FRACTIONAL CO<sub>2</sub> LASER**

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Background: Surgery is the first-line treatment for nodular basal cell carcinoma (BCC), especially if it is located in an area at high risk of recurrence. We report a case of basal cell carcinoma on actinic keratosis successfully treated with conservative treatment.

Case report: A 70-year-old man with no pathological history consulted for an erythematous and pigmented nodule in his right ear, which had been evolving for one year. The dermatological examination showed a pearly and pigmented nodule of 15mm at the level of the flag of his right ear. Dermoscopic examination showed ovoid nests, linear vessels and tree trunks, ulceration pointing to a BCC. On the periphery of the nodule, dermoscopy showed scales, rosettes on an erythematous background related to actinic keratosis. The histology was in favor of a nodular BCC. The patient received a combination therapy based on dynamic phototherapy at 100J / cm<sup>2</sup> in 2 sessions at 15 days interval preceded by a fractional CO<sub>2</sub> laser. Clinical and dermoscopic control was no abnormality in the 3rd, 6th and 9th months.

Key message: When the functional prognosis or the aesthetic prejudice is put into play, one must think of a conservative treatment while being curative. Generally, PDT is not the right indication for tattooed nodular BCC because the pigment blocks light penetration. We think that its combination with a fractional CO<sub>2</sub> laser gives a good result.

