

Please call if you have any questions:

Follow-up Appointments:

> **Axxent<sup>®</sup>eBx<sup>™</sup>**  
**for Skin Cancer**

*Skin Radiation Made More Comfortable  
with Electronic Brachytherapy*



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## Facts about skin indications

One in six people will develop skin cancer at some point in their lives, with over a million cases annually in the US<sup>1,2</sup>. Most patients are diagnosed with non-melanoma skin cancer (NMSC) with basal cell carcinoma being the most common in 80% and squamous cell carcinoma representing 20%. The majority of lesions are located on sun-exposed areas like face, the back of hands and neck. According to the NCCN guidelines<sup>3</sup>, radiation therapy is a primary treatment option for NMSC, or a secondary option in case of positive margins post-surgery.

Surgical excision is the most common skin cancer treatment, but in certain patients primary or postoperative radiotherapy can be an ideal alternative, with excellent cosmetic results.

## Electronic Brachytherapy ~ *eBx*

Electronic Brachytherapy (*eBx*) is an alternative to radioactive isotope-based therapies.

*eBx* utilizes a miniaturized X-ray source to deliver high dose radiation to the target area, at low energy, allowing treatment to be delivered in a minimally shielded environment. This makes *eBx* accessible to more patients and treatment locations.

## Treating with *eBx* for Skin Cancer

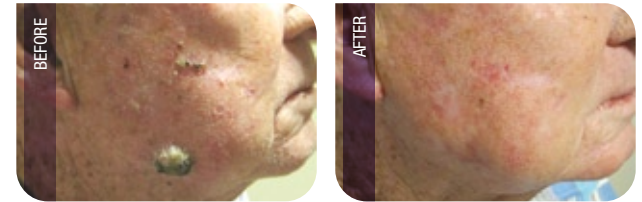
*eBx* is administered under the direction of a radiation oncologist. *eBx* can be delivered on an outpatient basis in a room with reduced shielding requirements. Treatment regimen and prescription depend on tumor size, type, depth, patient age, prior treatments and other criteria. During radiation therapy, the surface applicator is connected to the Xofig Axxent Controller. The treatment site can be prepared with a flexible shield that is cut to shape to surround the target area and protect the adjacent non-target tissues. A miniaturized X-ray source is placed in the applicator and energized to deliver radiation for a few minutes. At the completion of the treatment the X-ray source is turned off. All devices are removed in between treatment fractions.

*eBx* allows your physician to offer you an additional treatment option for skin cancer.

- no radioactive isotopes
- fewer visits compared to external beam therapy
- more comfort with lightweight applicator
- better monitoring with presence of therapist
- smaller treatment areas on your skin
- treatment inside body cavities possible



Basal Cell Carcinoma



Squamous Cell Carcinoma

## Advantages of *eBx* for Skin Cancer

- Radiotherapy can be an excellent alternative or addition to surgery...
  - >...for patients with cosmetically sensitive lesions not interested in surgery
  - >...when restoration of larger lesions on lips or ears is difficult or impossible for necessary function (wearing glasses etc.)
  - >...postoperatively to treat close or positive margins to reduce the risk for recurrence
  - >...in case of contraindications to surgery, e.g. blood thinning medication
- Fewer visits to a cancer center with Axxent *eBx* compared to external beam therapy
- Axxent *eBx* allows patients to be treated at their initial visit

Images courtesy of Ajay Bhatnagar, MD. Cancer Treatment Services Arizona

<sup>1</sup> <http://www.cancer.gov/cancertopics/types/skinCancer>, National Cancer Institute 2008.

<sup>2</sup> American Cancer Society. Cancer Facts and Figures 2008.

<http://www.cancer.org/downloads/STT/2008CAFFfinalsecured.pdf>

<sup>3</sup> National Comprehensive Cancer Network; [http://www.nccn.org/professionals/physician\\_gls/f\\_guidelines.asp](http://www.nccn.org/professionals/physician_gls/f_guidelines.asp)