Visible • Repeatable • Optimal • Disposable

The AR™ is a first of its kind, disposable brachytherapy applicator designed specifically for the treatment of anal and rectal cancers.

Unique Device Properties

- Radio-opaque contrast markers visible under X-ray, CT and MRI ensure consistent device placement.
- Inner balloon design ensures precise, consistent source catheter positioning.
- Compliant outer balloon ensures optimal tissue separation and conformity around tumors.
“The uniquely compliant design of the AR Applicator allows exophytic tumors to press closer to the source catheters than healthy tissue, resulting in the ability to deliver a very high dose to the tumor, maintaining superior dose coverage of the target volume while sparing healthy tissue.

For diffuse tumors, the target surface is kept away from the source catheters, resulting in a more homogenous dose distribution to the target, even for deep tumors. This design makes the AR the first rectal applicator ideally suited to treat both a solid exophytic mass and a diffuse tumor.

The AR applicator allows the prescription dose to envelop the tumor and the delivery of a very high dose to the tumor surface, all of this while sparing the healthy rectum and anal muscle, in a way that could not be achieved with external beam therapy.”

**Shown here is a typical treatment plan:**

**Target**
- V100 = 99%
- V150 = 75%
- V200 = 40%

**Unaffected Healthy Tissue**
- D$_{\text{rectal\_wall}}$ 5% = 85%
- D$_{\text{anal\_muscle}}$ 5% = 70%

Comments and images courtesy of Karyn A. Goodman, MD and Gil’ad N. Cohen, MS
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