

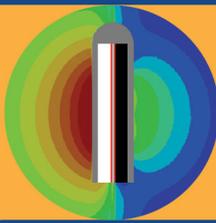
APBI TREATMENT PLANNING

JASON ROWND

2017



AAPM
SUMMER
SCHOOL



CLINICAL
BRACHYTHERAPY
PHYSICS

In conjunction with the
American Brachytherapy Society

CONFLICT OF INTEREST STATEMENT

- No conflicts of interest

- Learn about various APBI applicators and how they appear in CT scans
- Learn some basic reconstruction concerns
- Learn some basic planning concerns

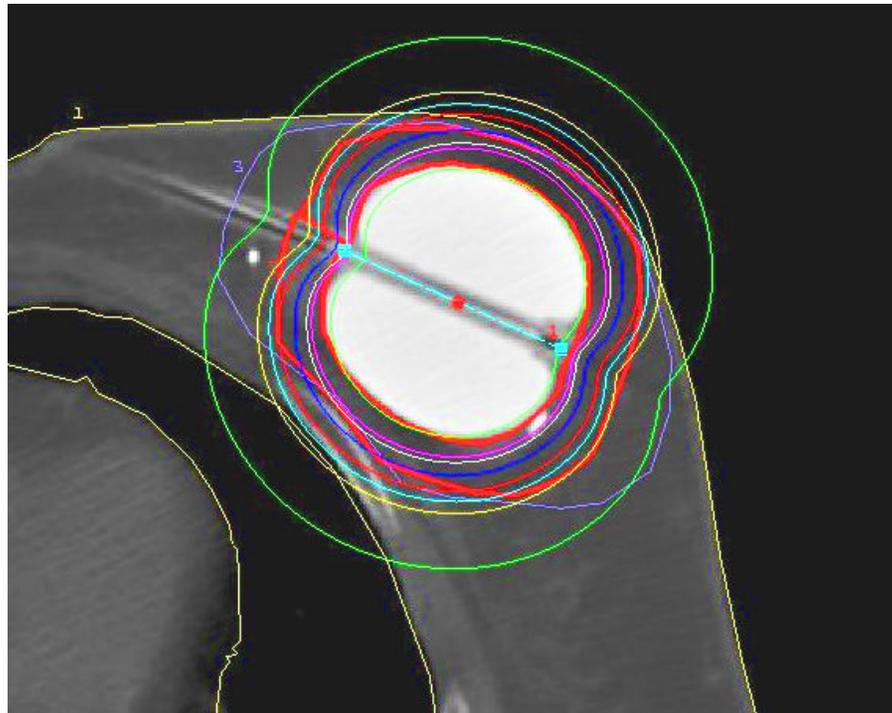
MammoSite single lumen
1 channel
Hologic



MammoSite multilumen
4 total channels
Hologic



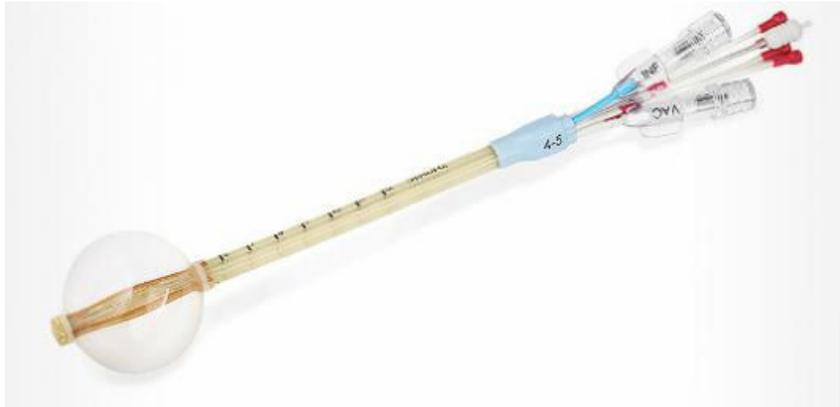
MAMMOSITE



Simple geometry
Simple planning

Increasing channels
Less simple geometry
Less simple planning

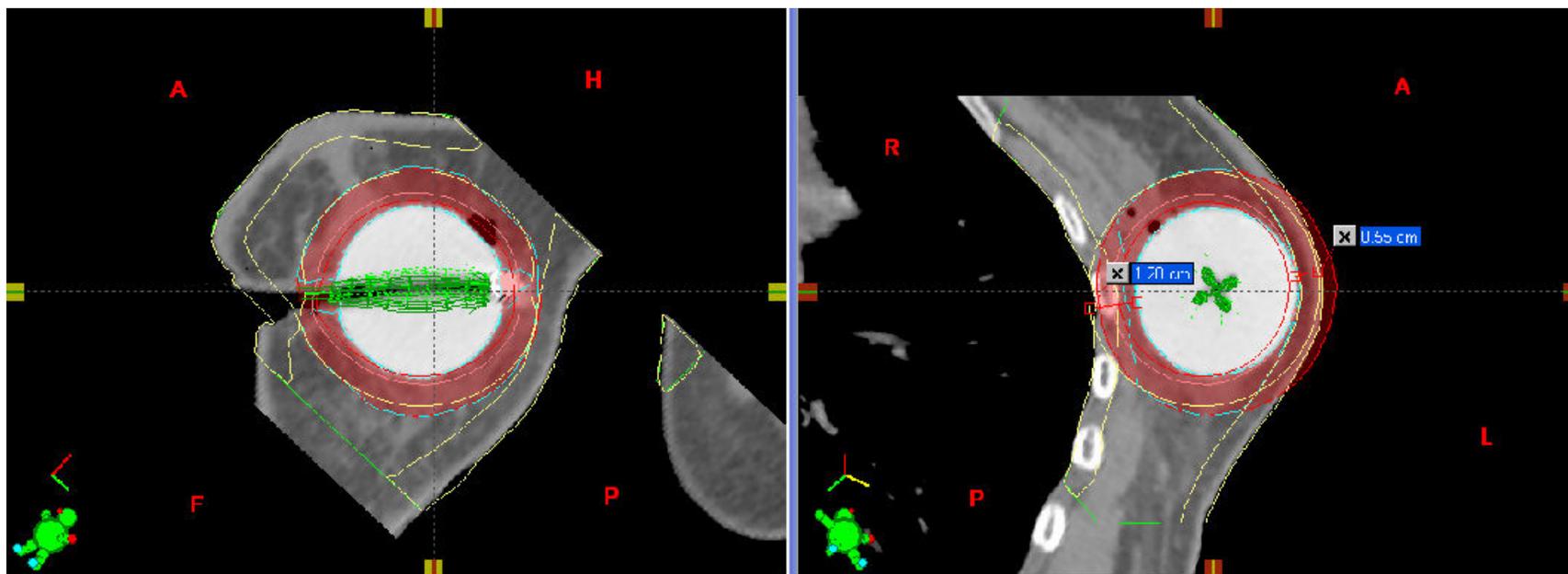
Contura multilumen
5 total channels
Hologic



SAVI multilumen
up to 9 total channels
Cianna Medical

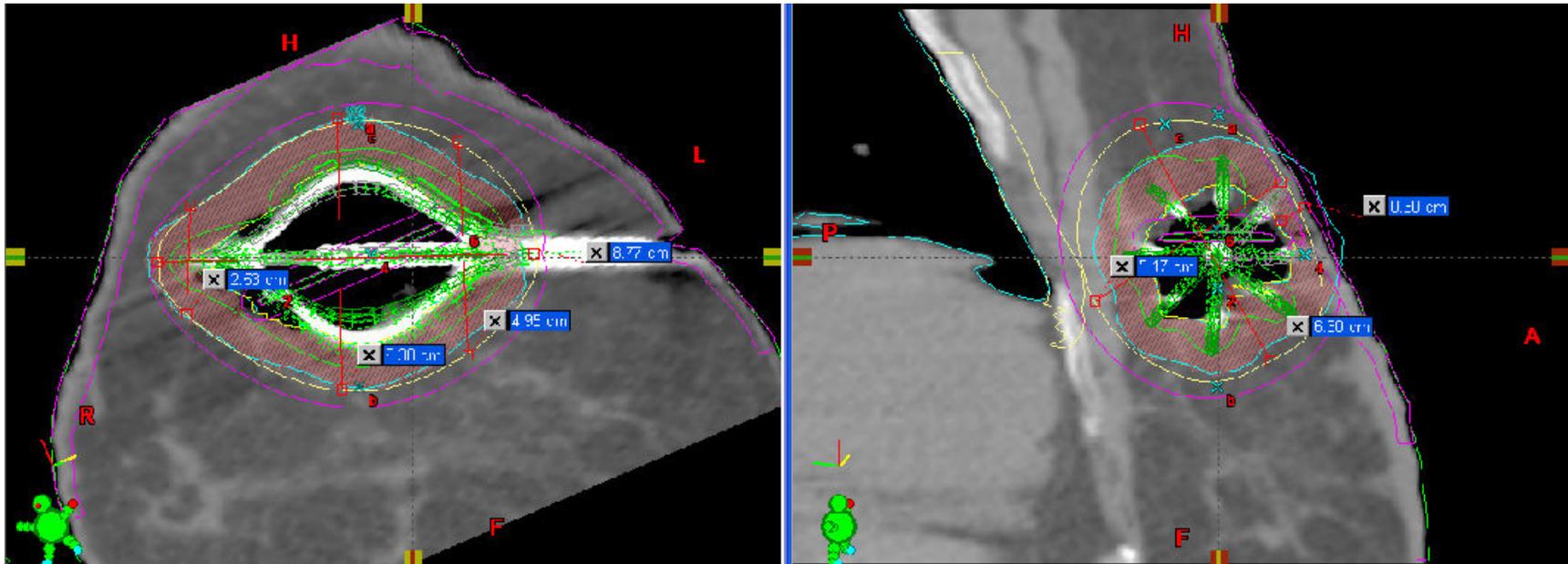


CONTURA



Multiple channels for adjusting the dose distribution
Relative central to applicator

SAVI



Multiple channels for adjusting the dose distribution
More distance from central lumen of applicator
More adjustability to dosimetry

INTERSTITIAL MULTICATHETER

- No specific vendor
- Plastic catheters fed through a hollow trocar
- Multiple types of catheters
 - Some more comfortable than others(?)
- More difficult insertion(?)
- More conformal/controllable dose distribution(?)

DIFFERENT IMPLANTS INTERSTITIAL BREAST BRACHY

