

VI Encontro Nacional das Ciências e Tecnologias da Saúde
ESTeSL
20 a 22 de Outubro 2011



CANCRO DA MAMA – ABORDAGEM MULTIDISCIPLINAR

A abordagem do técnico de radioterapia no tratamento dos tumores de mama

O Contributo da Radioterapia

ESTeSL

Ana Cravo Sá , AC Radioterapia



SUMÁRIO

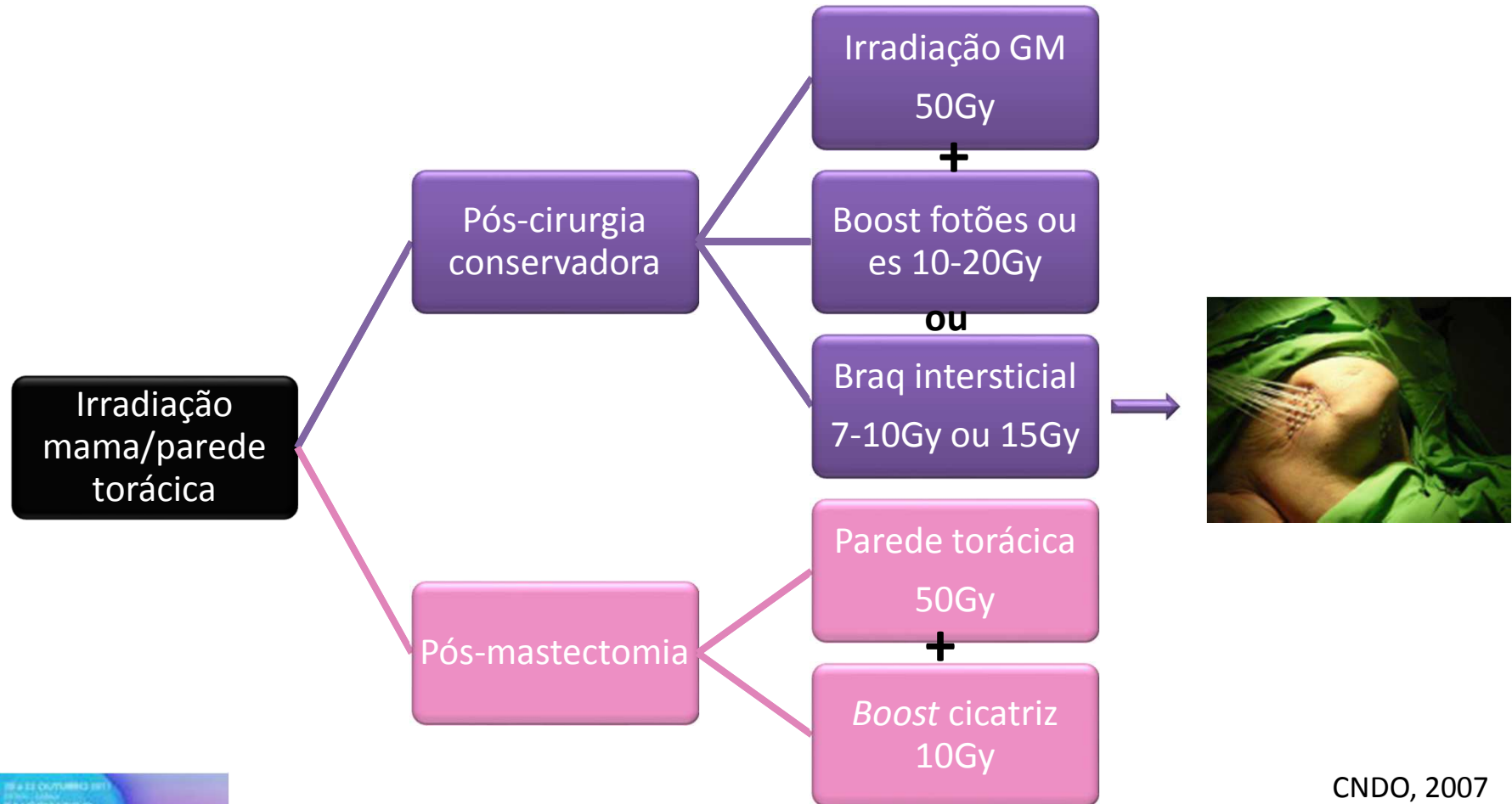
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- Planeamento
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 - Simulação
 - Dosimetria Clínica
- Tratamento
- Novas Modalidades de Irradiação de Mama



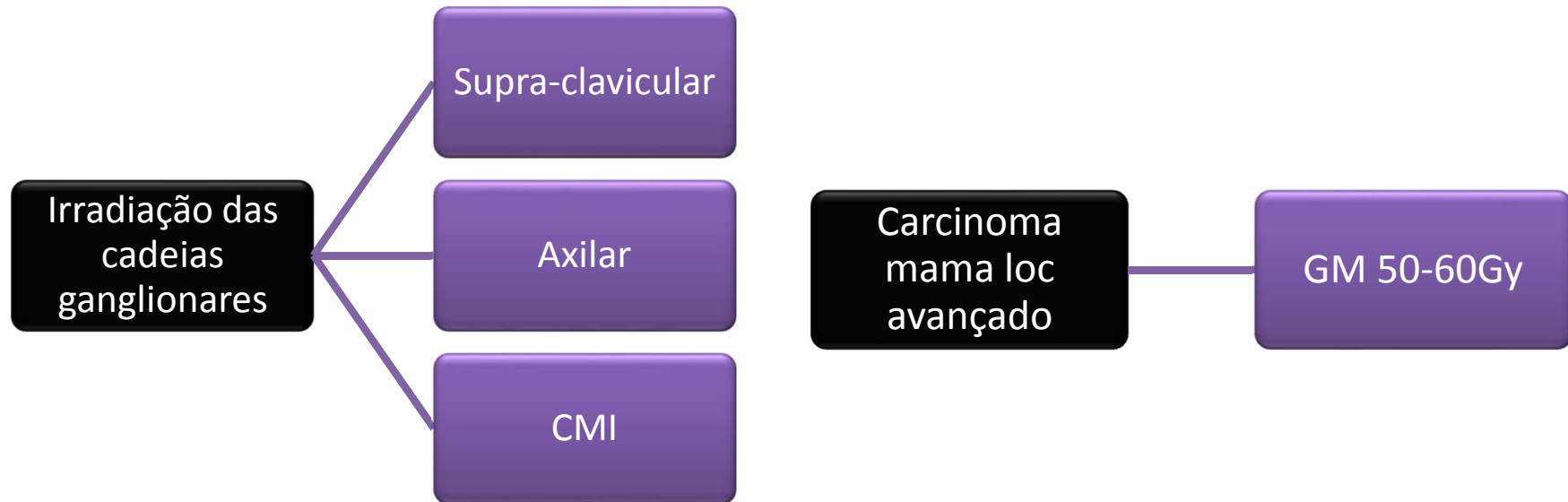
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INTRODUÇÃO





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Aquisição de imagens

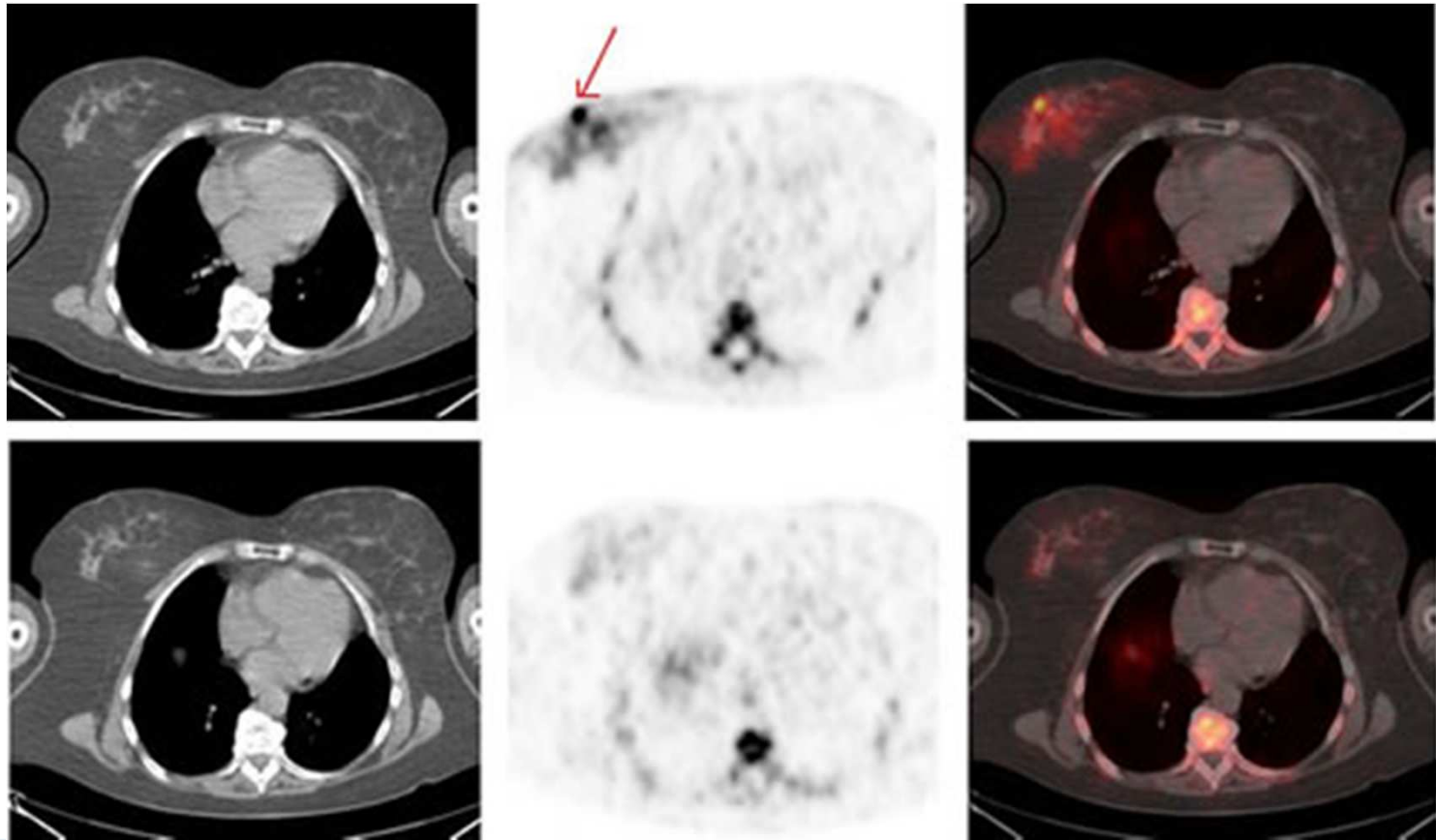


Fig. 3 – Fusão TC e PET.

Kirova et al., 2011



PLANEAMENTO

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Simulação

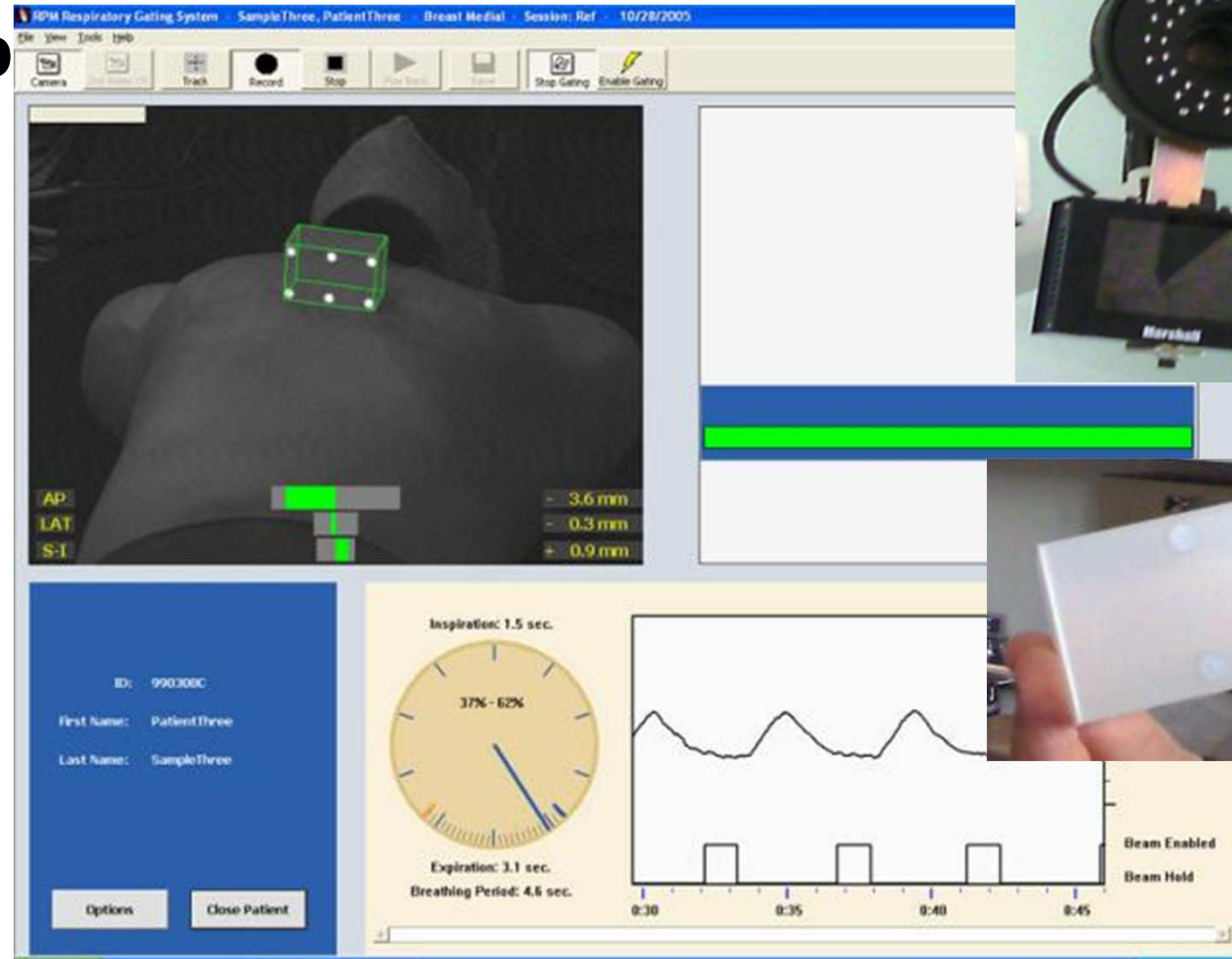


Fig. 8 – Sistema *Gating*.

Brédart et al., 2011



PLANEAMENTO

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Dosimetria Clínica

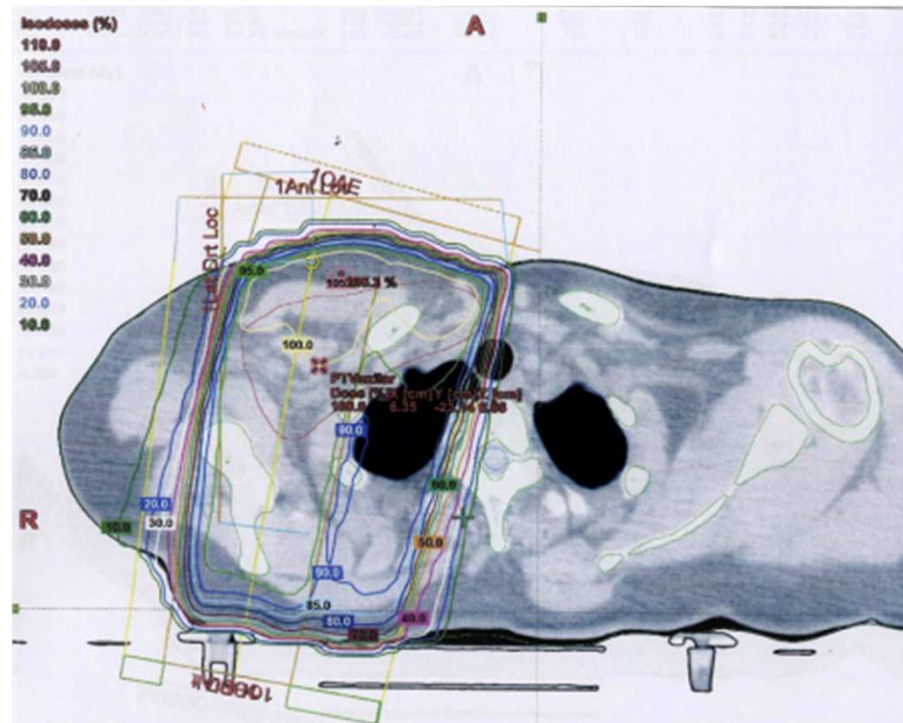


Fig. 11 – Axilo supra-clavicular.



PLANEAMENTO

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Dosimetria Clínica

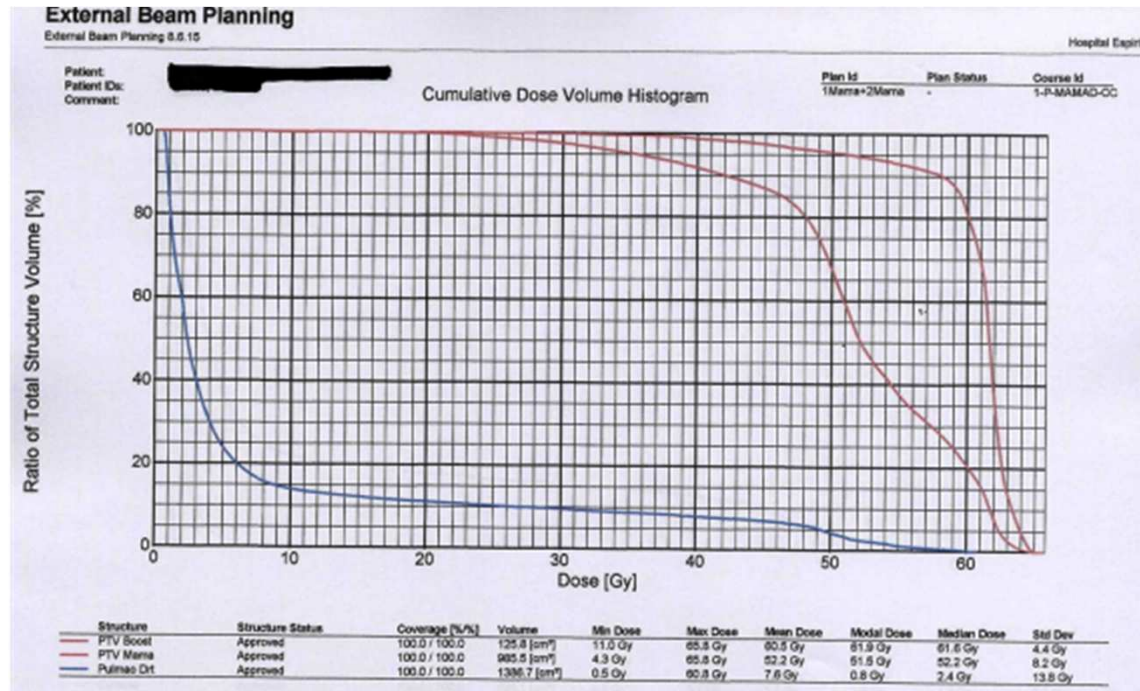


Fig. 14 – HDV.



TRATAMENTO

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The screenshot displays a radiotherapy treatment planning software interface. The main window shows a patient's treatment plan for 'Cirneche, Natalia Marie (525520), (20090947) - RT Chart'. The plan is titled '1Tg Esterno - ORT' and is set to 'PTV' volume. The machine used is 'QL21CD-MLC'. The plan is currently in 'Flattening View'.

The interface includes a tree view on the left showing the treatment plan structure, including target volumes (1Tg Esterno, 1Tg Interno, 1Tg Interno at) and organs at risk (OARs) like the lungs and heart. The main window displays a 3D visualization of the patient's anatomy with the treatment plan overlaid, showing the target volumes and the MLC (Multi-Leaf Collimator) setup.

Field Order/Type	1) Treat	2) Treat	3) Treat
Field ID	1Tg Esterno	1Tg Interno	1Tg Interno at
Field Name	1Tg Esterno	1Tg Interno	1Tg Interno at
Technique	STATIC	STATIC	STATIC
Energy	6E	6E	6E
Dose Rate (MU/min)	300	300	300
MU	145	154	16
Time (min)	6.73	8.78	0.08
Tot. Table	EXISTENTE PO.	EXISTENTE PO.	EXISTENTE PO.
SSD (cm)	84.0	83.7	83.7
Country (R) (deg)	232.8	57.0	57.0
Coll (R) (deg)	0.0	0.0	0.0
Field R (cm)	12.0	12.0	6.4
R1 (cm)	3.0	3.0	1.8
R2 (cm)	9.0	9.0	3.8
Field Y (cm)	18.0	10.0	4.5
F1 (cm)	18.0	10.0	4.5
F2 (cm)	0.0	0.0	0.8
MLC	Static	Static	Static
Dynamic Wedge			
Wt SR20	W1 SR20	W1 SR20	W1 SR20
Acc Head			
Comp Head			
Appare			
Table			
Couch Wt (cm)	+24.8	+24.8	+24.8
Couch Leg (cm)	+132.8	+132.8	+132.8
Couch Lat (cm)	+5.0	+5.0	+5.0
Couch Ht (deg)	0.0	0.0	0.8
Imager Wt (cm)	+88.8	+88.8	+88.0
Imager Leg (cm)	-0.0	-0.8	-0.8
Imager Lat (cm)	0.0	0.0	0.8
Setup Note	7.5 braco D -	7.5 braco DT0 -	7.5 braco DT0 -

Fig. 16 –Verificação do tratamento.



NOVAS MODALIDADES DE IRRADIAÇÃO DE MAMA



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APBI – Accelerate Partial Breast Irradiation

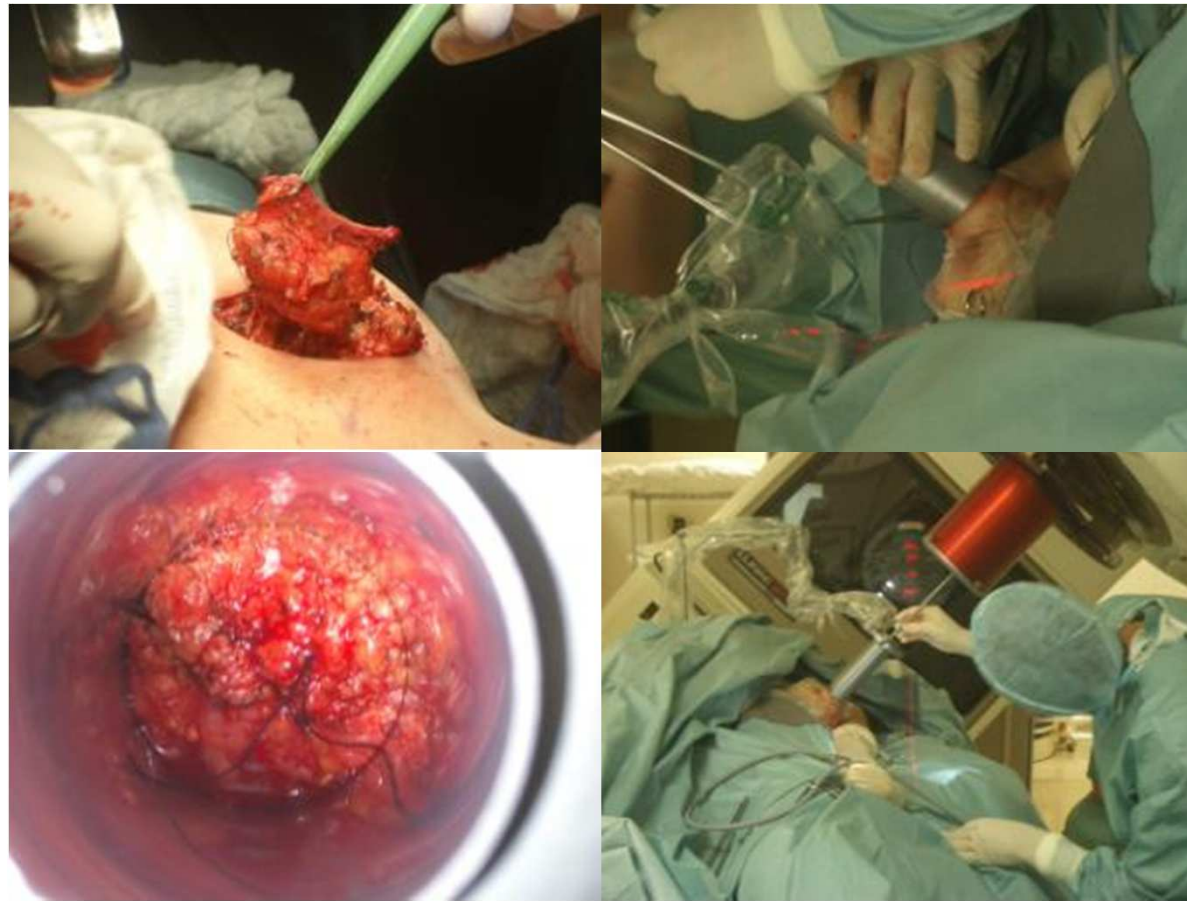


Fig. 17 – Radioterapia Intra-operatória.

NOVAS MODALIDADES DE IRRADIAÇÃO DE MAMA



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APBI – Accelerated Partial Breast Irradiation

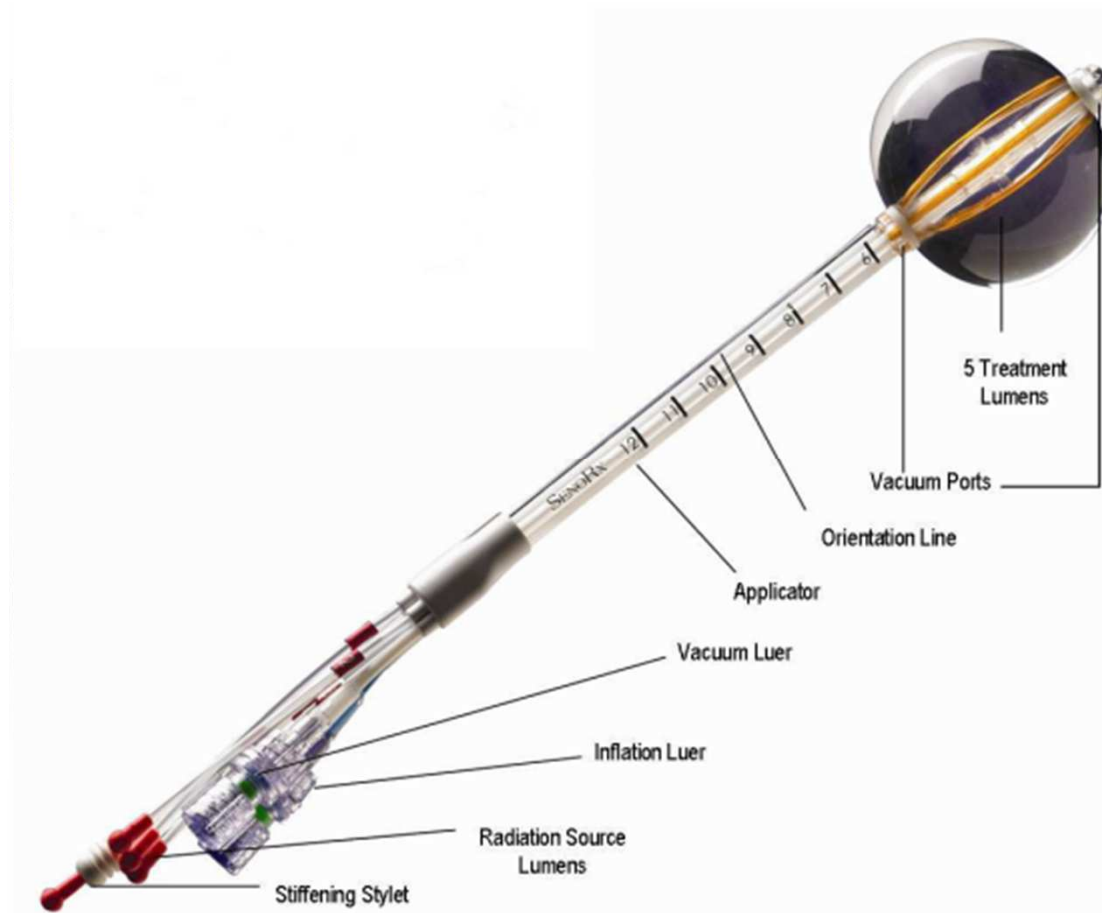


Fig. 20 - Contura

Njeh et al., 2010

NOVAS MODALIDADES DE IRRADIAÇÃO DE MAMA



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APBI – *Accelerated Partial Breast Irradiation*



Fig.22 – Clear Path

Njeh et al., 2010



REFERÊNCIAS BIBLIOGRÁFICAS

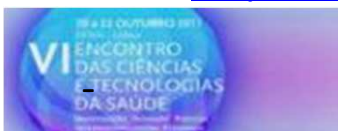
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OBRIGADO PELA ATENÇÃO!!!

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