

Insights on Identifying Medical Events During Inspections

Presented by Bob Gattone
Senior Health Physicist,
Region III, NRC

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“The Devil is in the Details”



Inattention to Detail

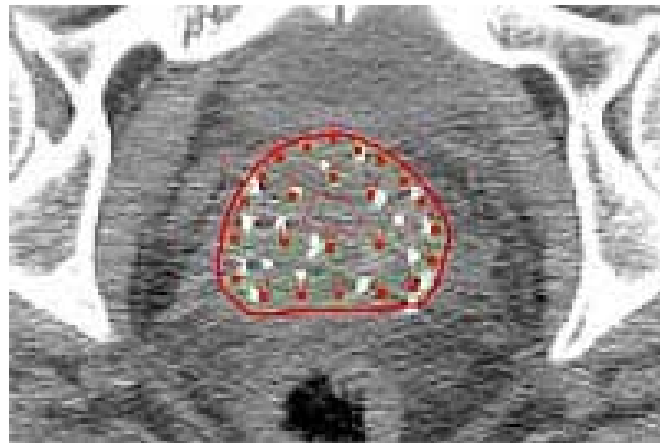
- Has caused medical events
- Has resulted in missed opportunities for licensees to identify medical events
- Has probably resulted in missed opportunities for inspectors to identify medical events.



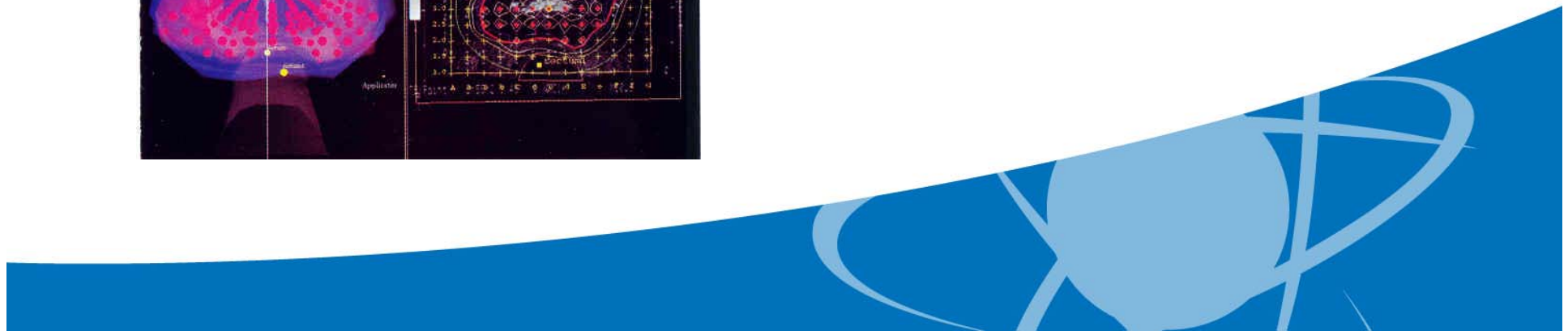
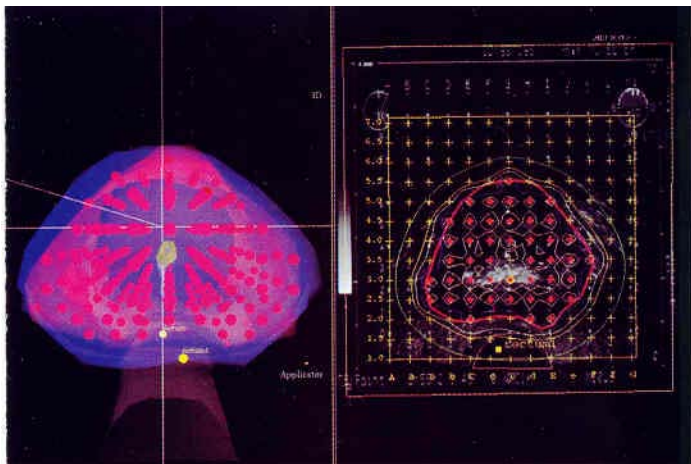
Identification of medical
events is usually not fast
or easy



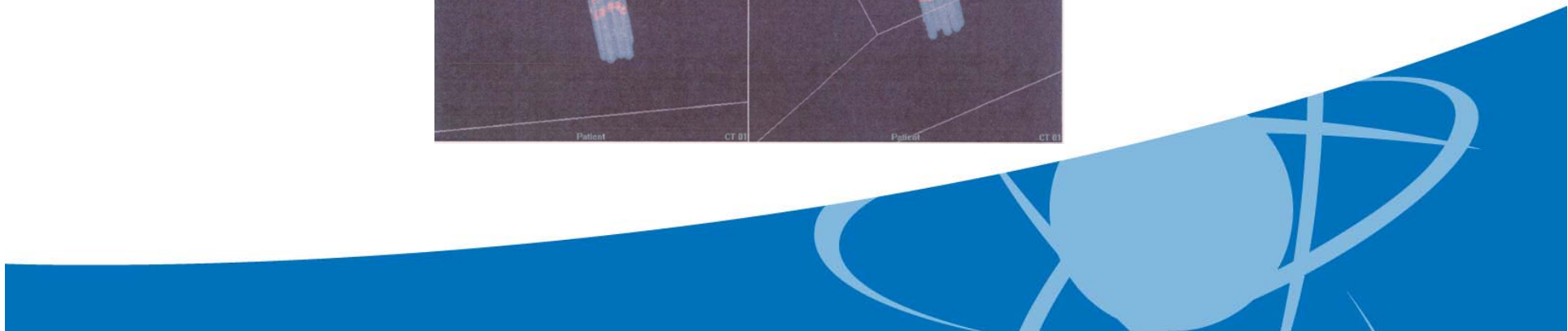
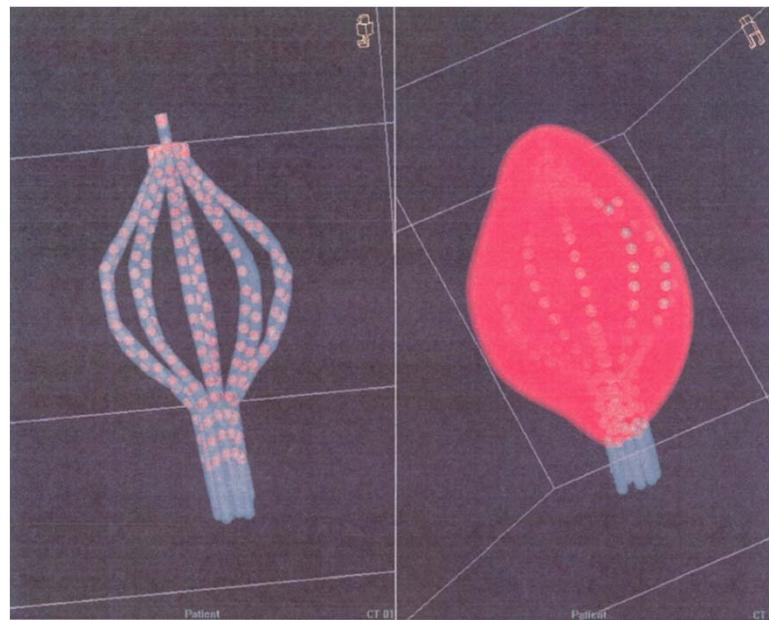
Understand the Licensee's Processes and Procedures Through Observations, Interviews, and Record Reviews



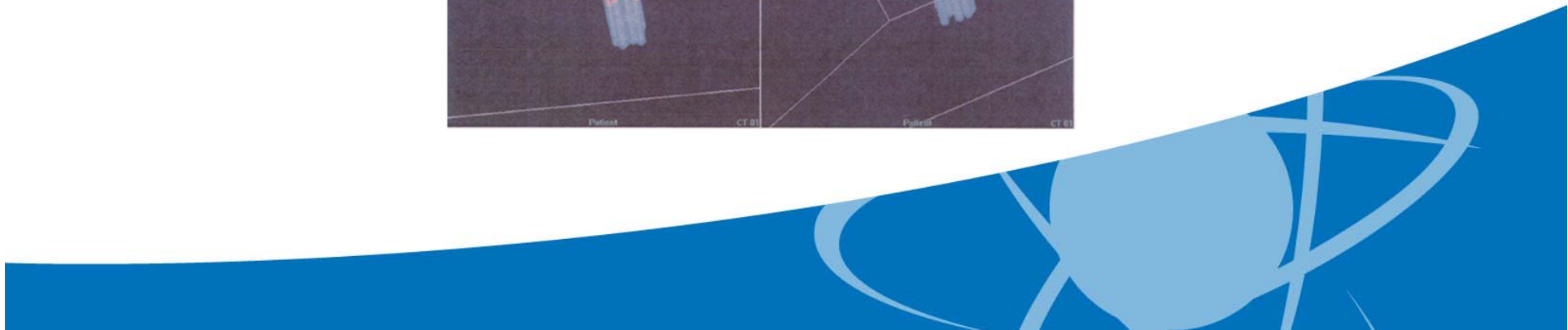
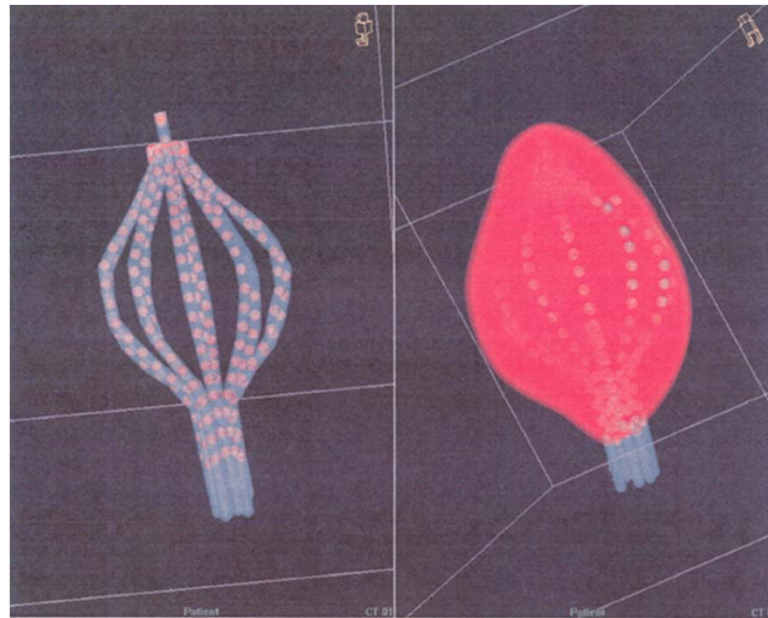
Positioning the patient for treatment



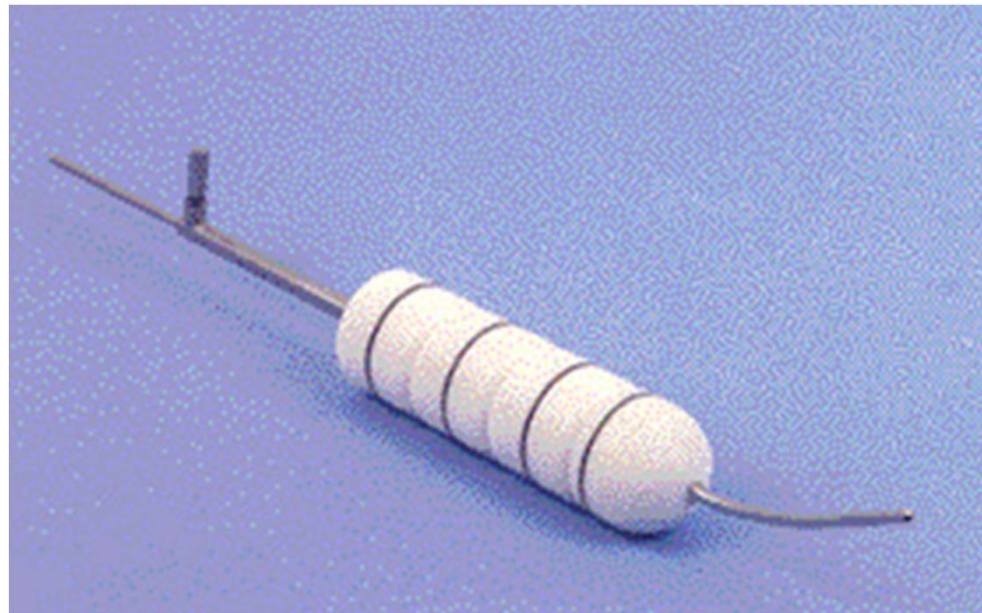
- As you look at the licensee's processes and procedures, look for vulnerabilities for errors



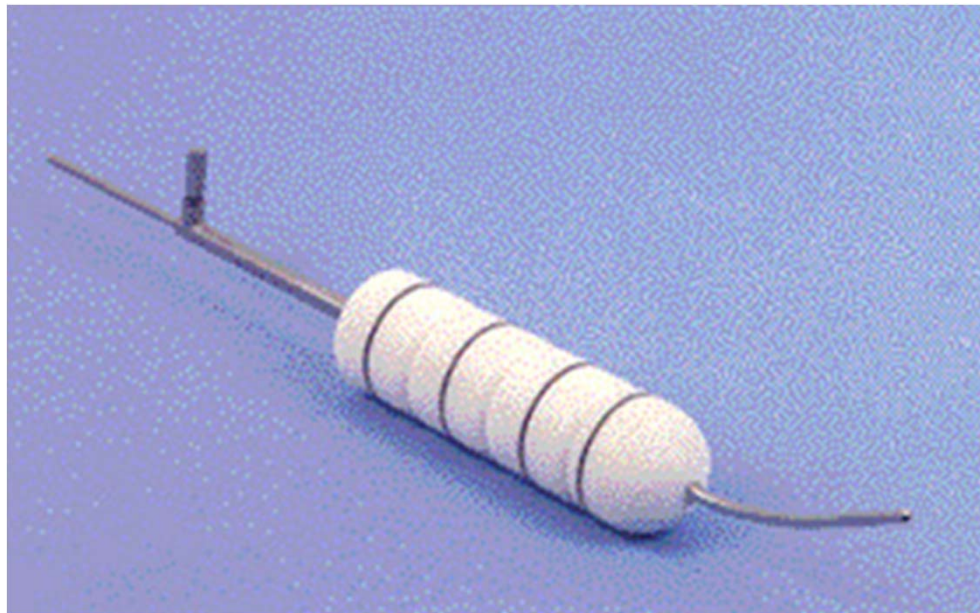
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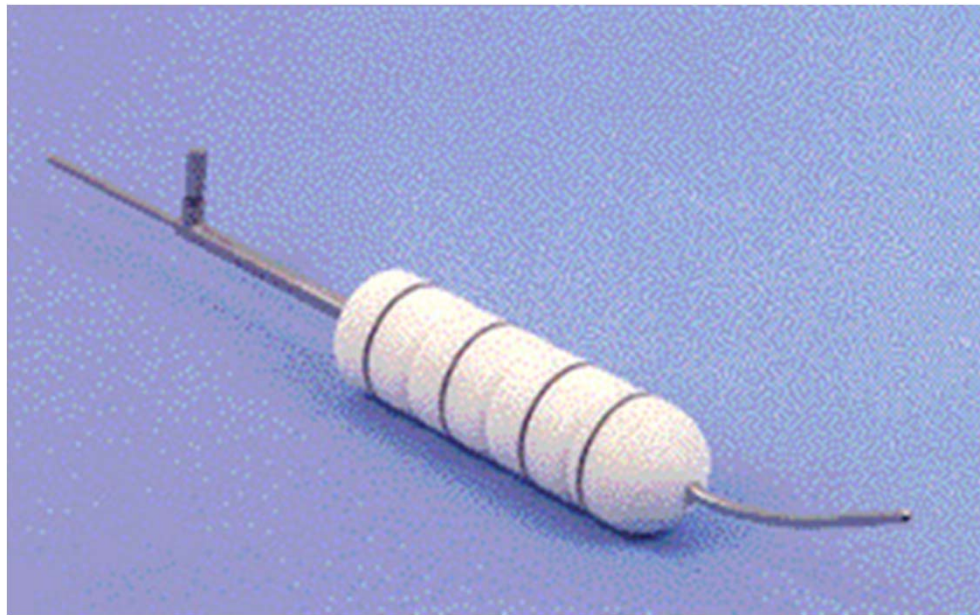
Low Dose Rate Brachytherapy Cs-137 GYN Medical Event



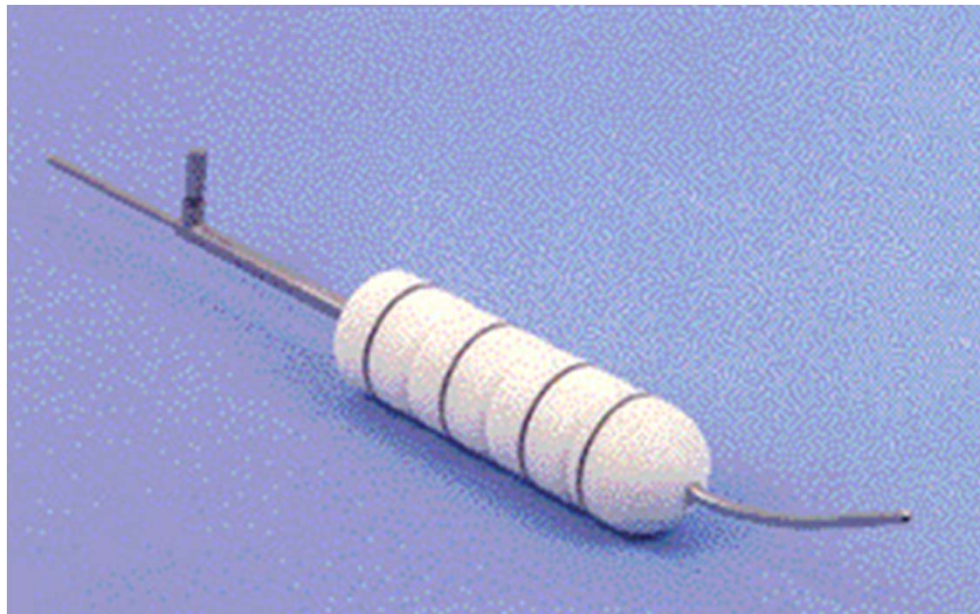
Low Dose Rate Brachytherapy Cs-137 GYN Medical Event



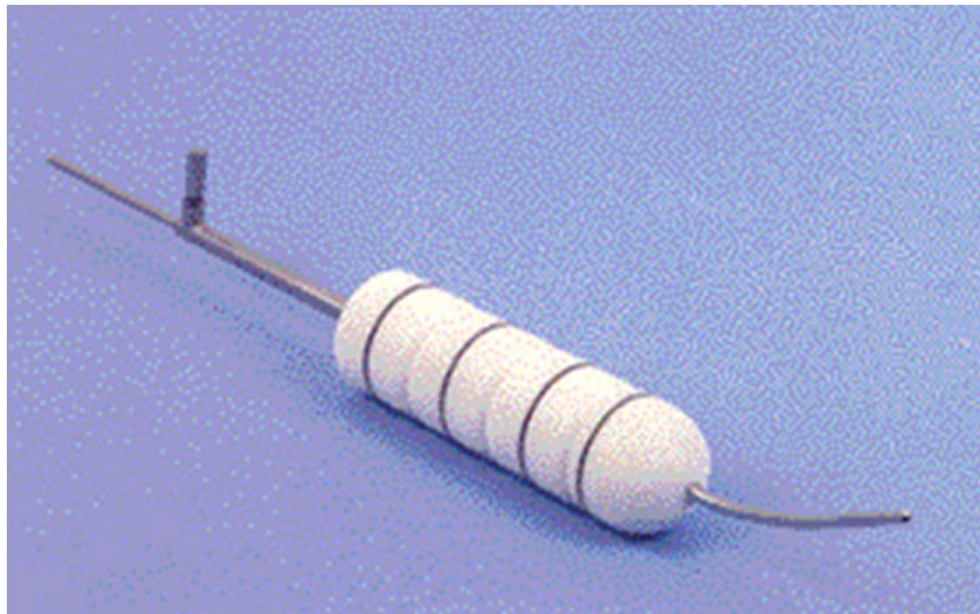
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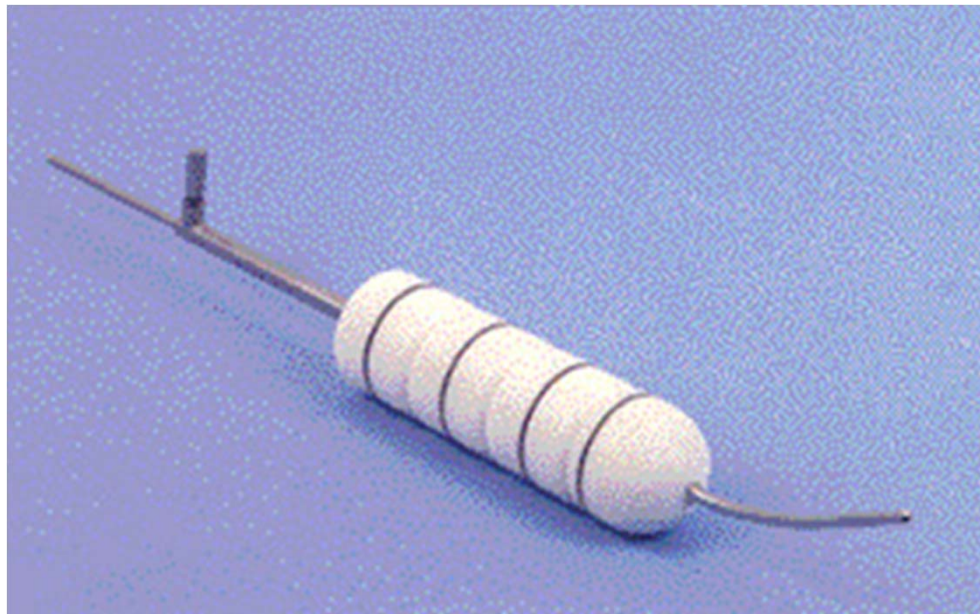
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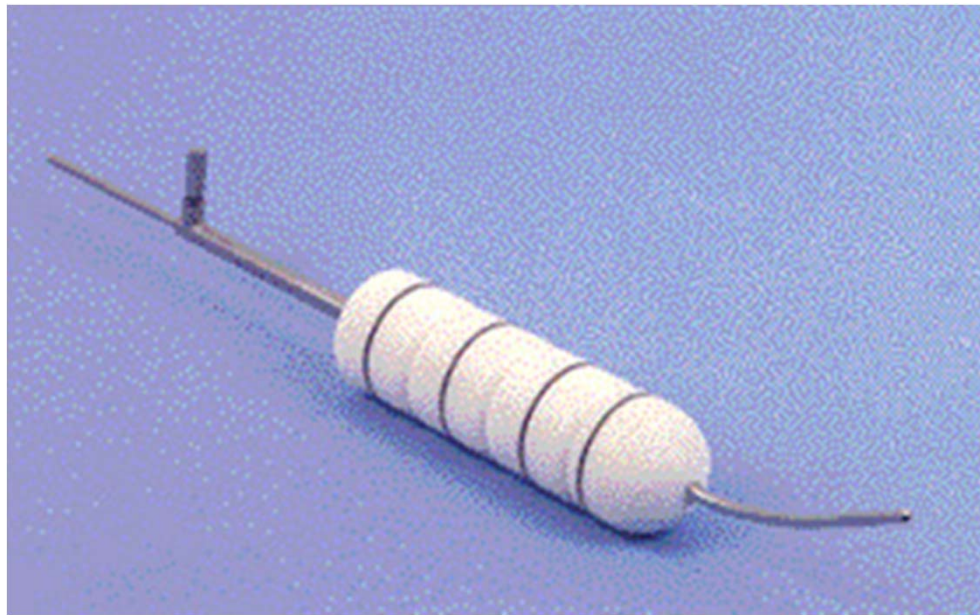
Low Dose Rate Brachytherapy Cs-137 GYN Medical Event



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HDR GYN Medical Event



HDR GYN Medical Event



HDR GYN Medical Event

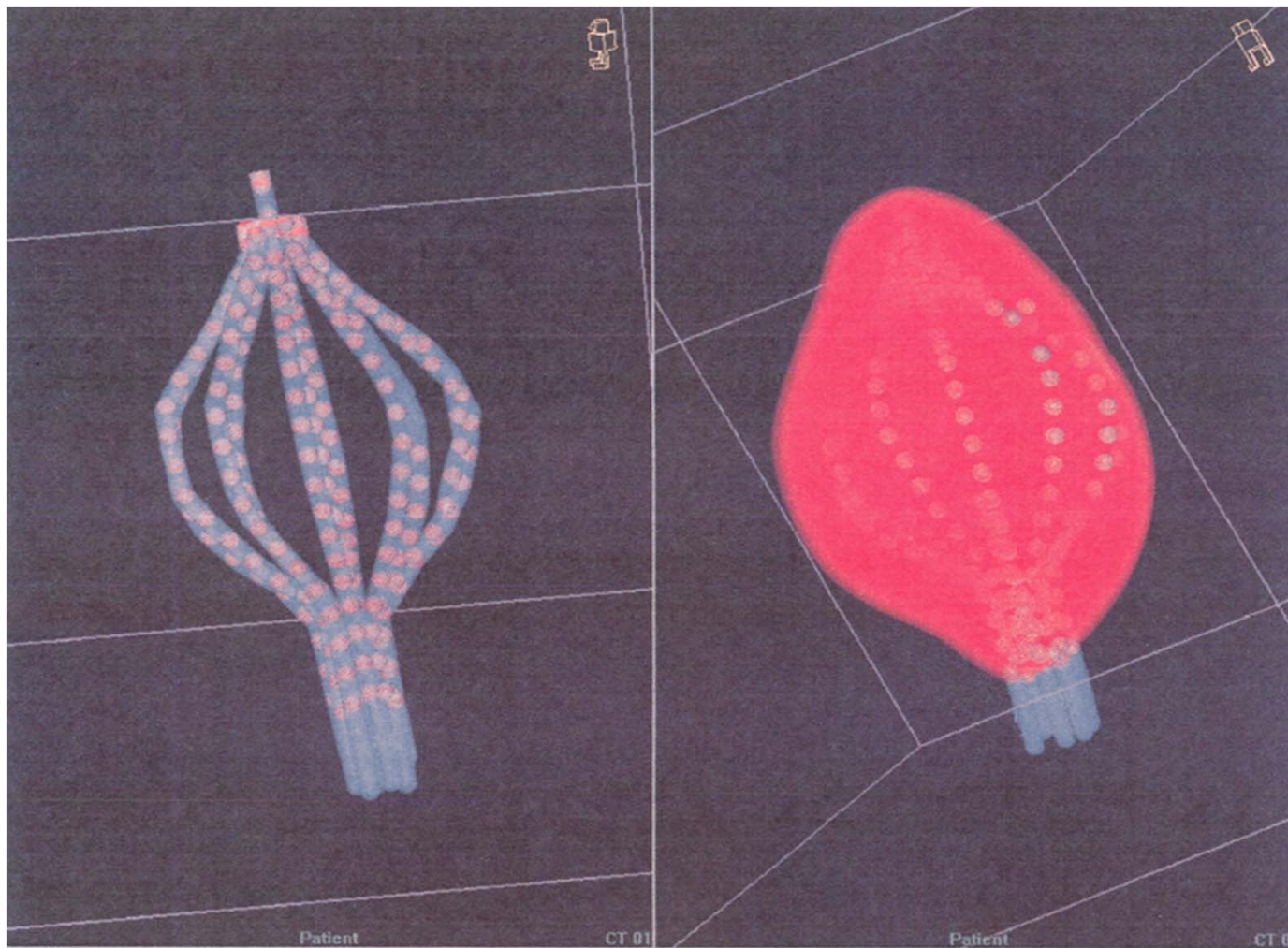


HDR GYN Medical Event

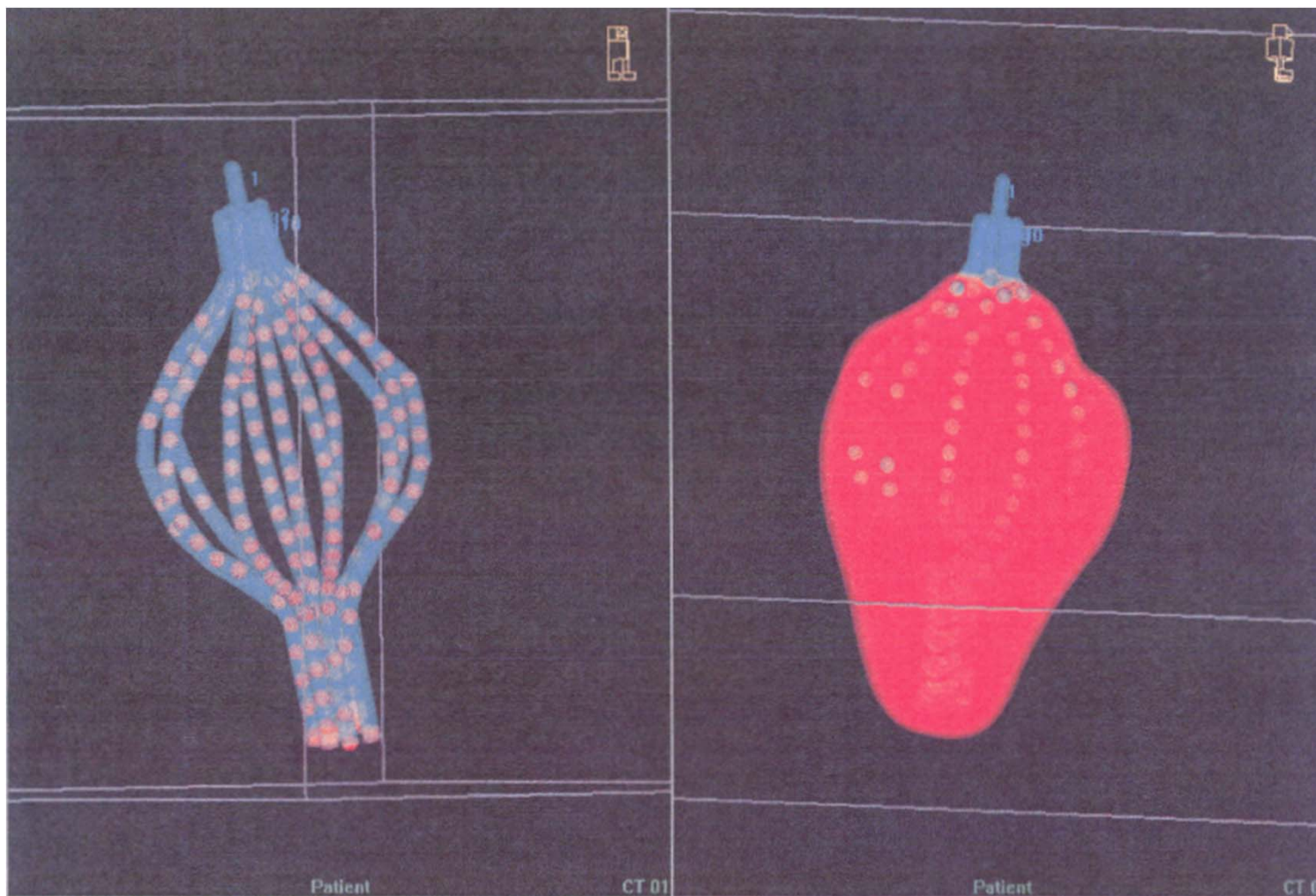




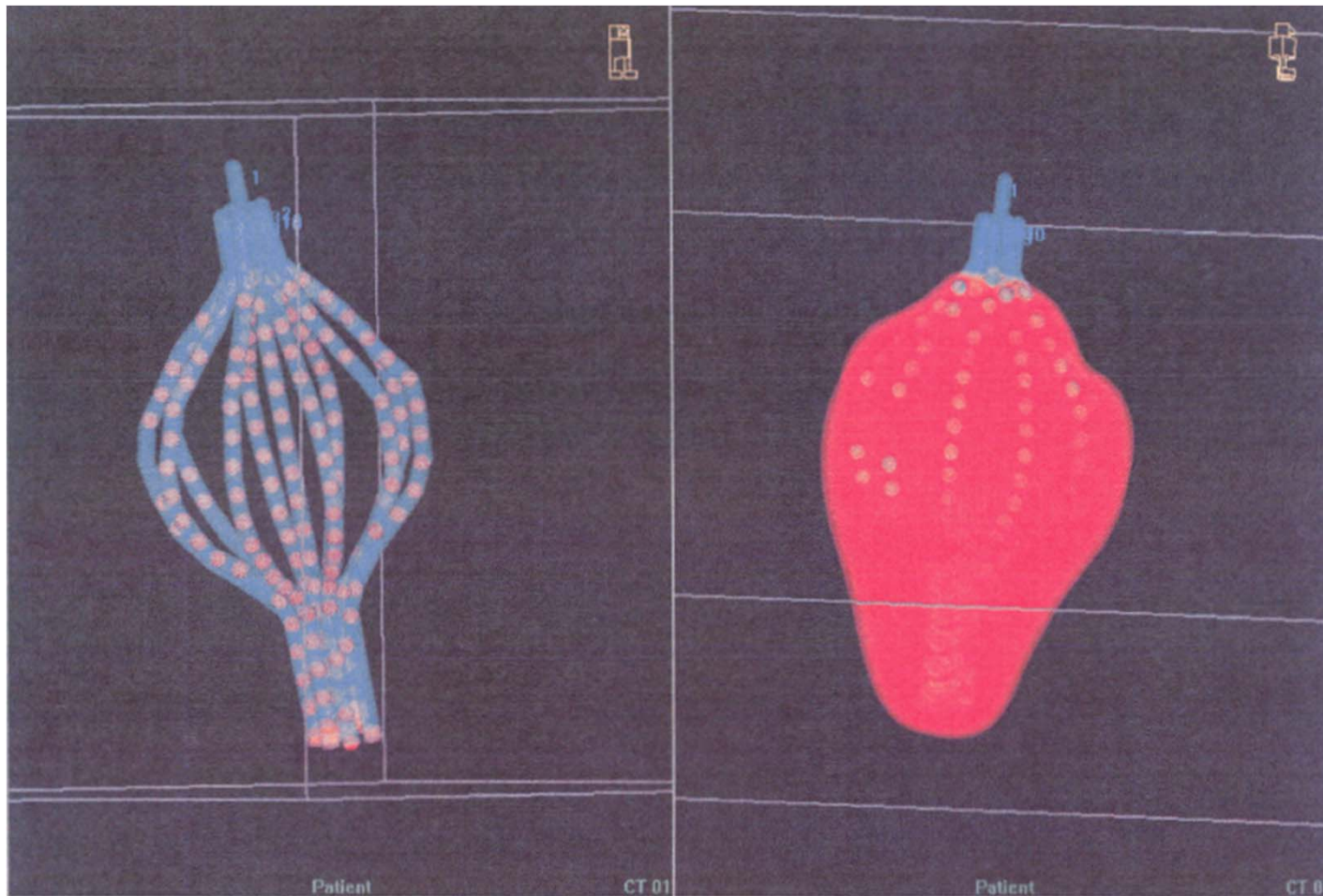
Breast Medical Event



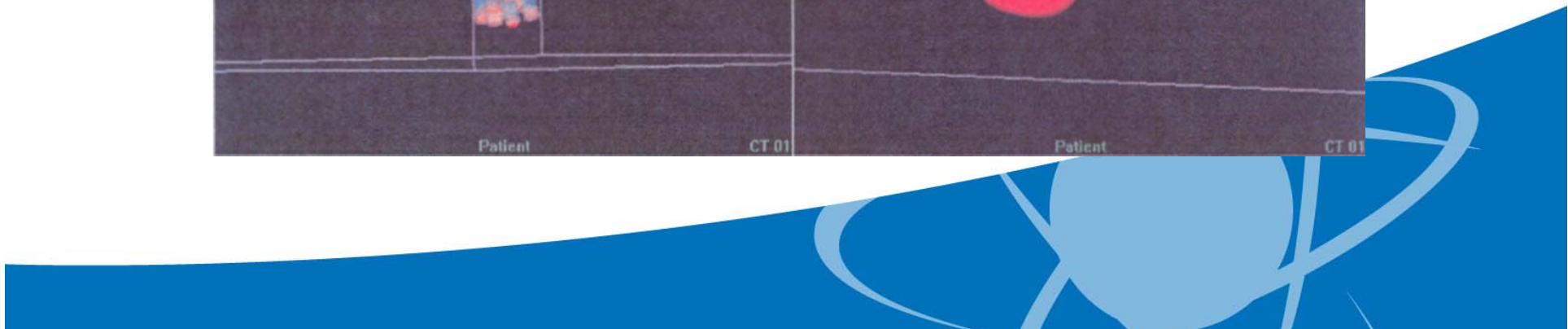
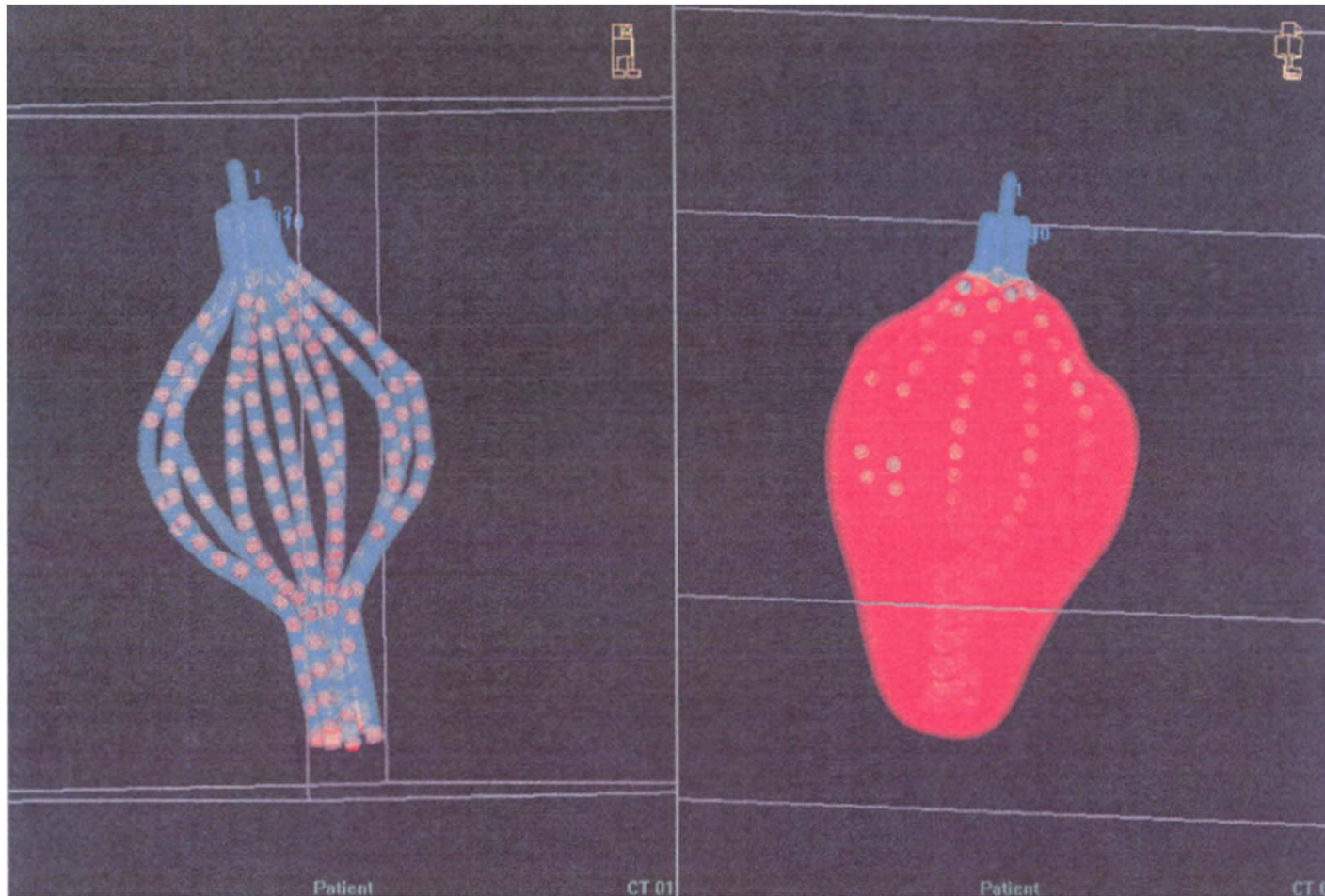
Breast Medical Event



Breast Medical Event



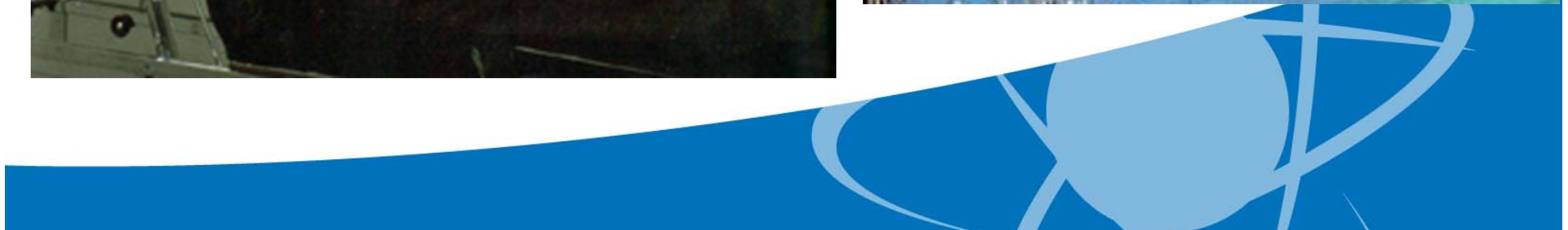
Breast Medical Event



HDR Catheter Problem Medical Event



HDR Catheter Problem Medical Event



HDR Catheter Problem Medical Event

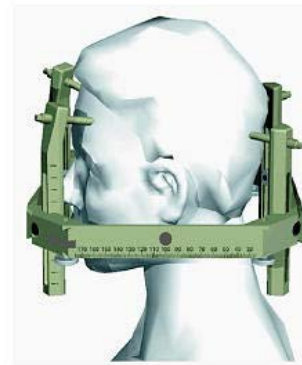


GSR

Positioning the patient for treatment



Leksell Stereotactic Frame

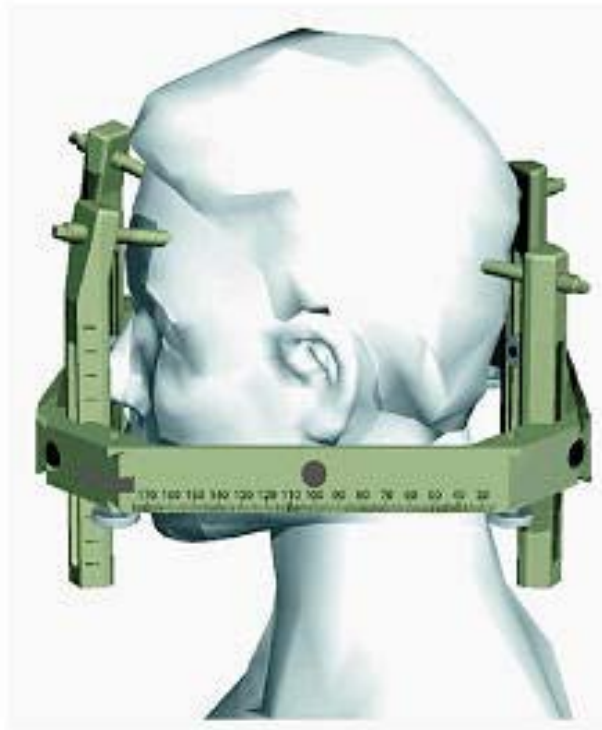


Collimators - 4mm, 8mm, 14mm, 18mm



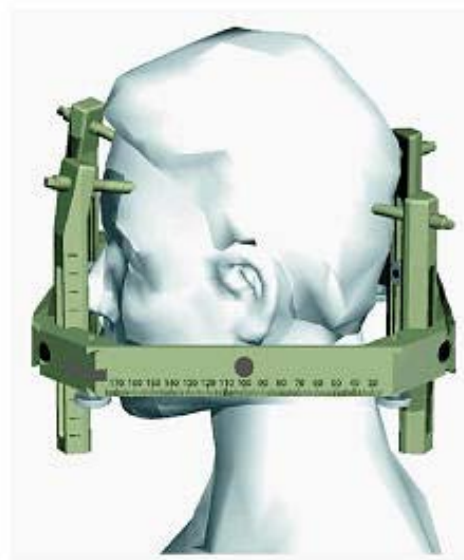
GSR

Leksell Stereotactic Frame



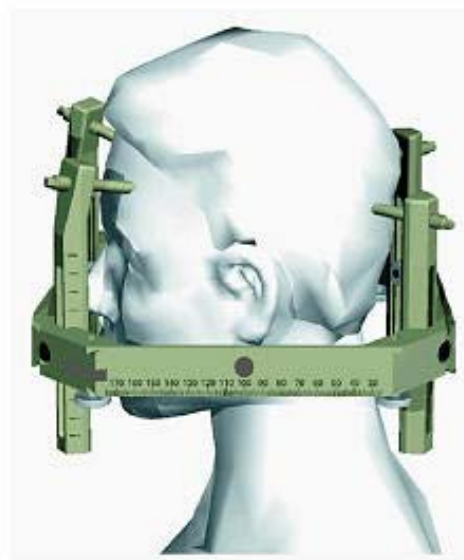


Leksell Stereotactic Frame



ELEKTA

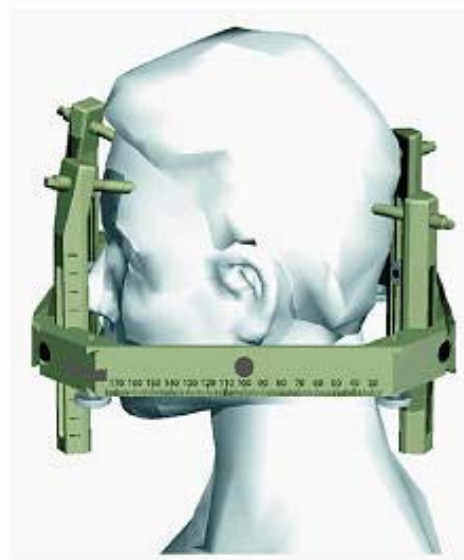
Leksell Stereotactic Frame



ELEKTA



Leksell Stereotactic Frame



ELEKTA

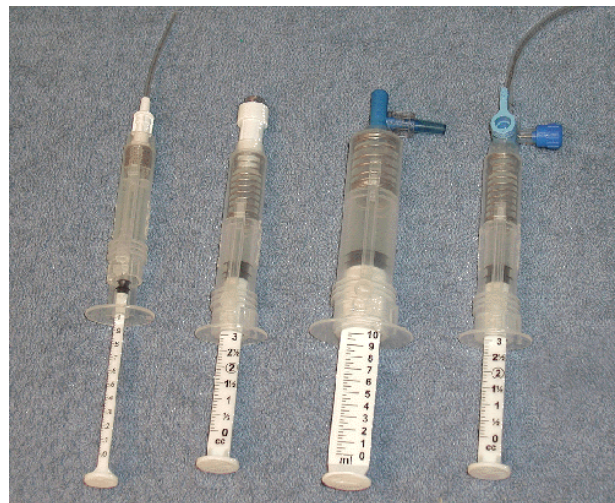


Radiopharmaceutical Therapy

Gamma Emitters



Root Cause and Contributing Causes



Root Cause and Contributing Causes



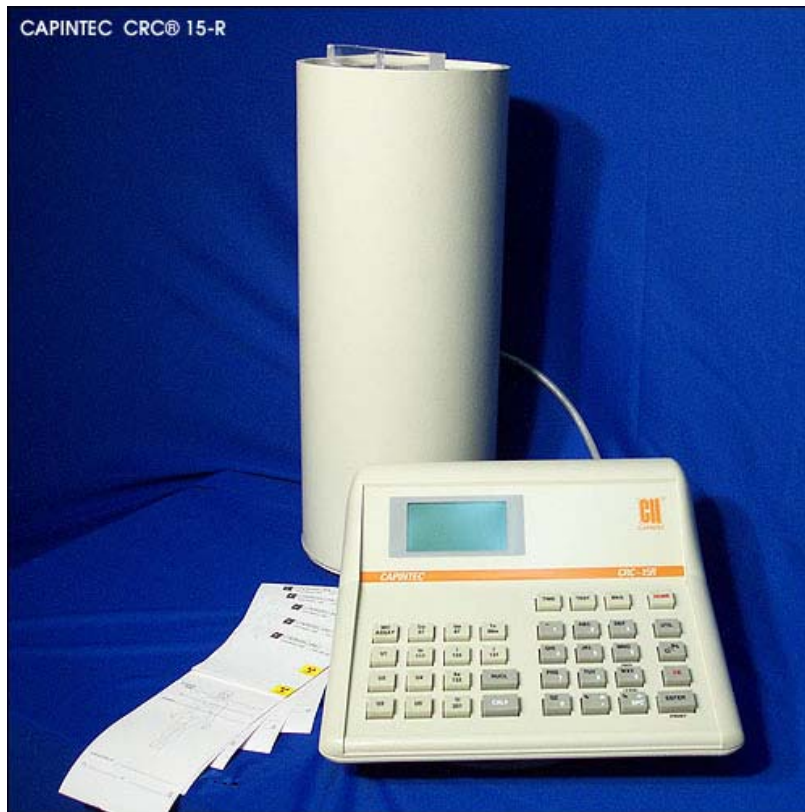
Root Cause and Contributing Causes



Corrective Actions



Iodine-131 Medical Event



Beta Emitters

Radioactivity Measurements



DESIGNED FOR
ZEVALIN™



Technetium-99m Event



QUESTIONS?

