

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

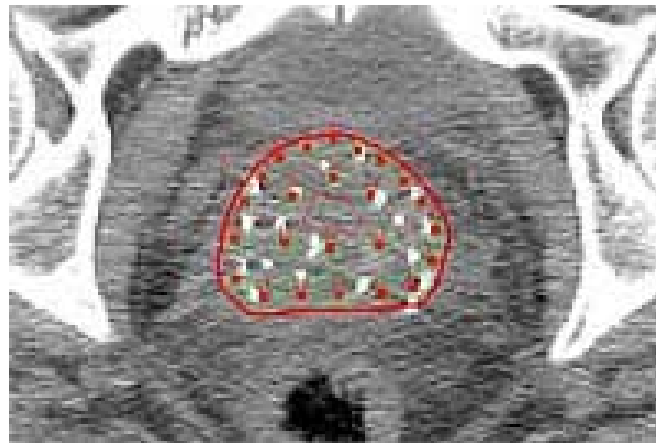
- Has caused medical events
- Has resulted in missed opportunities for licensees to identify medical events
- Has probably resulted in missed opportunities for inspectors to identify medical events.



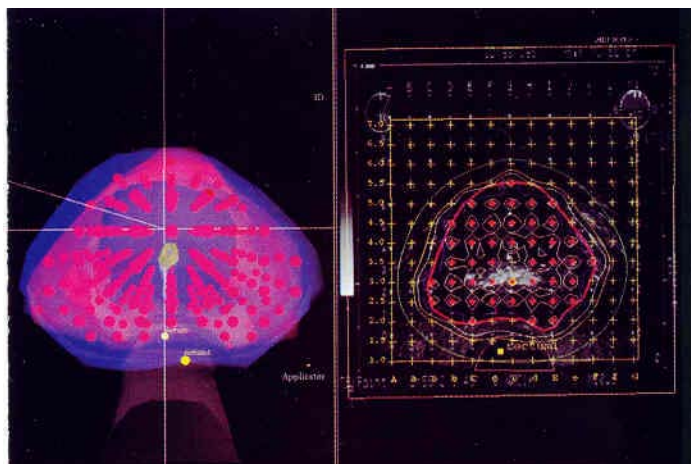
Identification of medical
events is usually not fast
or easy



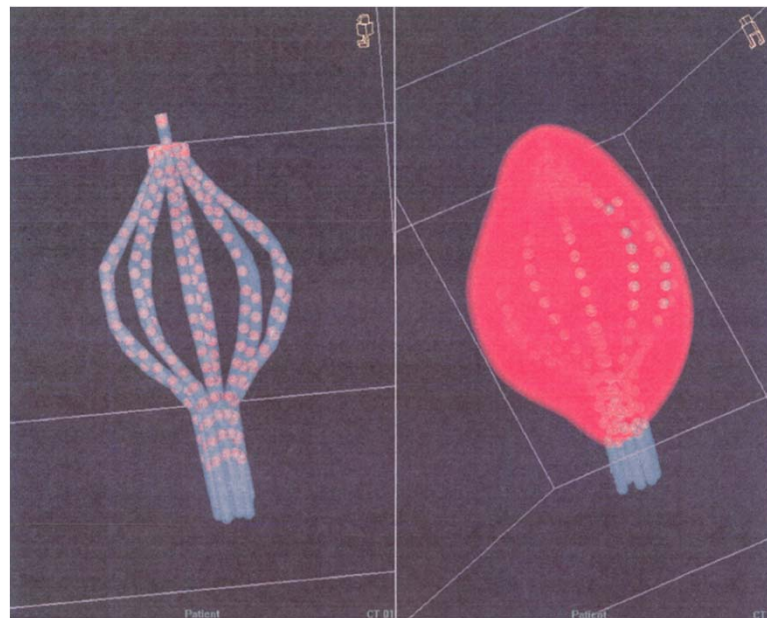
Understand the Licensee's Processes and Procedures Through Observations, Interviews, and Record Reviews



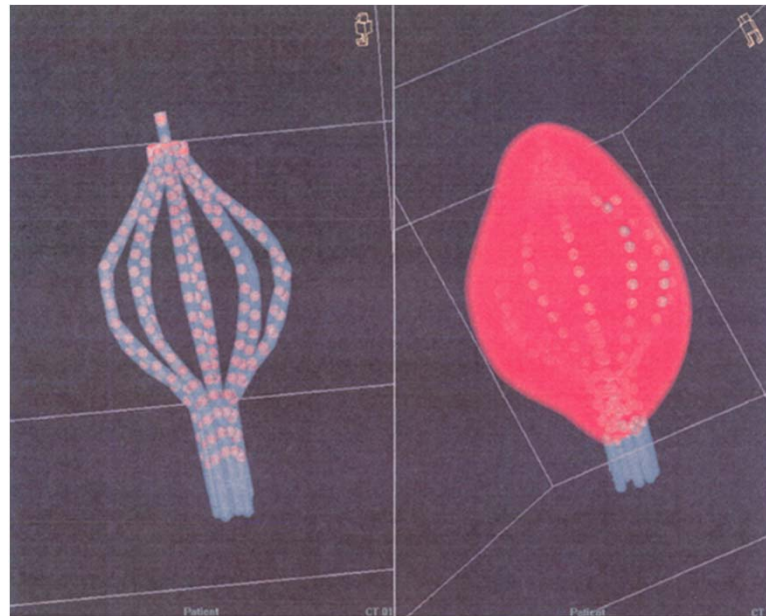
Positioning the patient for treatment



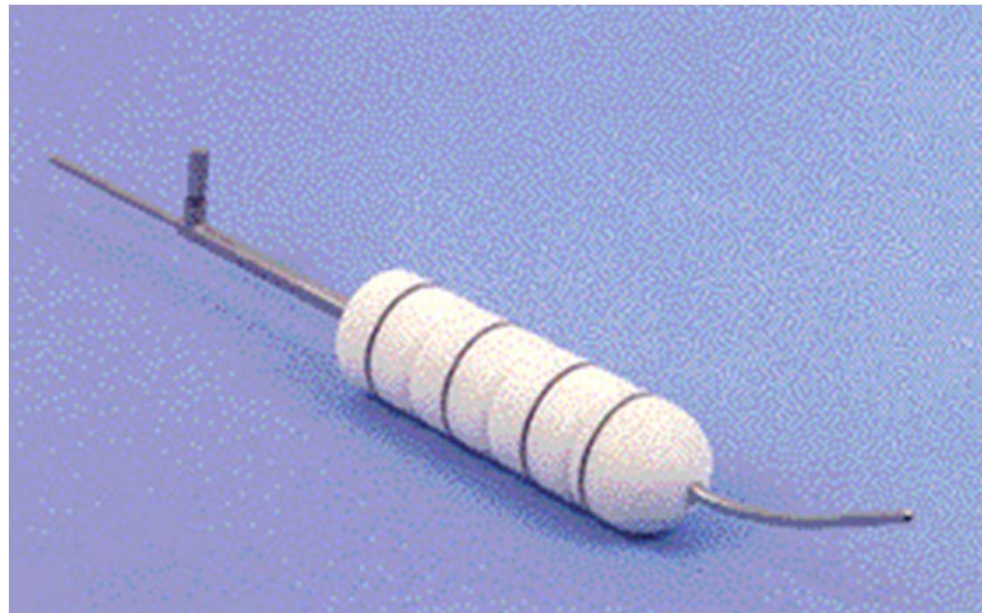
- As you look at the licensee's processes and procedures, look for vulnerabilities for errors



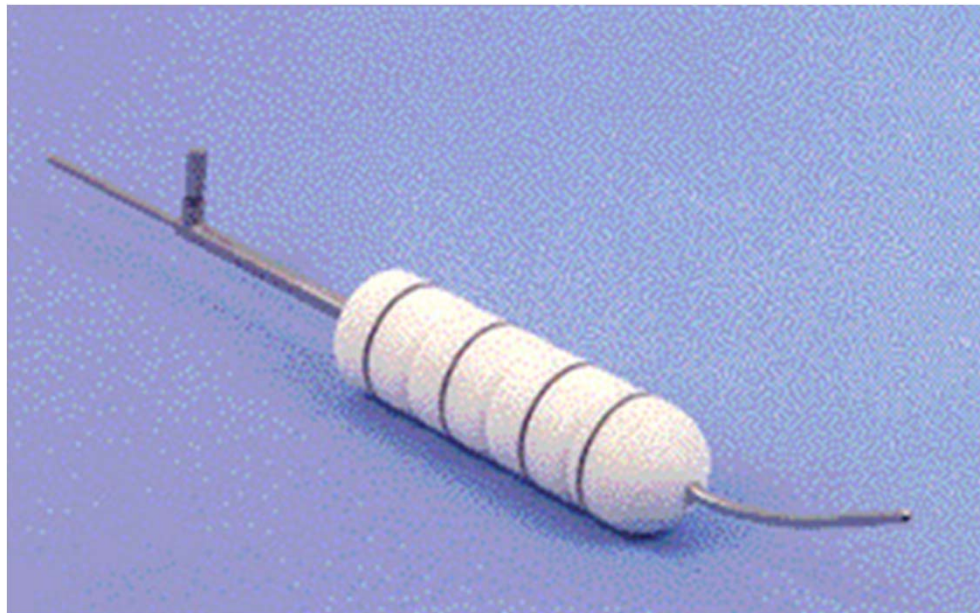
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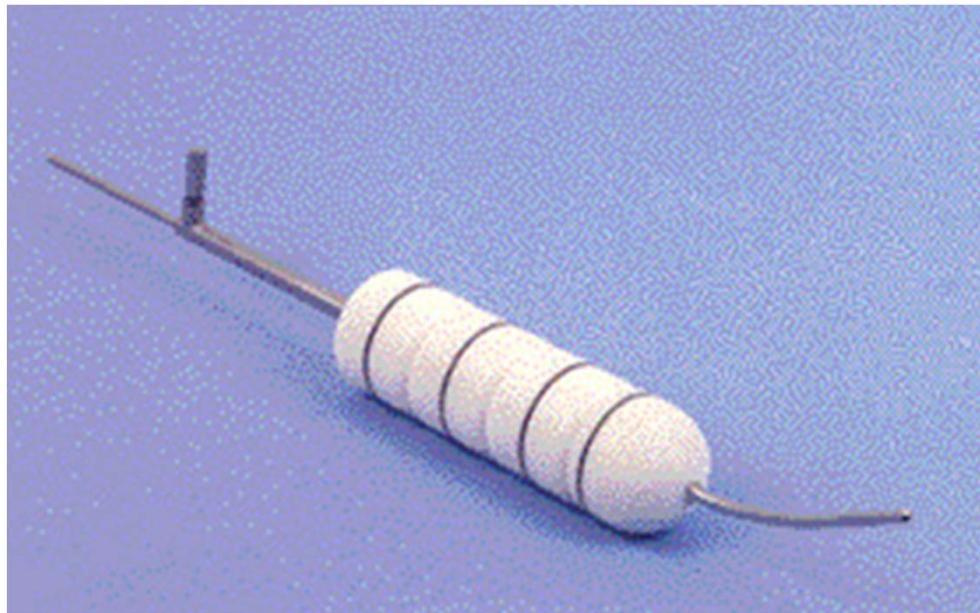
Low Dose Rate Brachytherapy Cs-137 GYN Medical Event



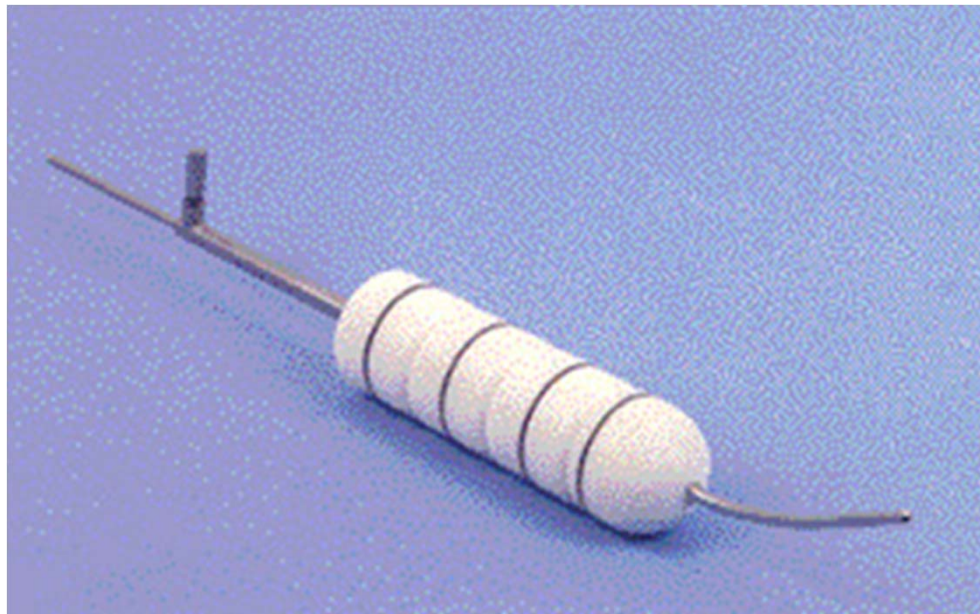
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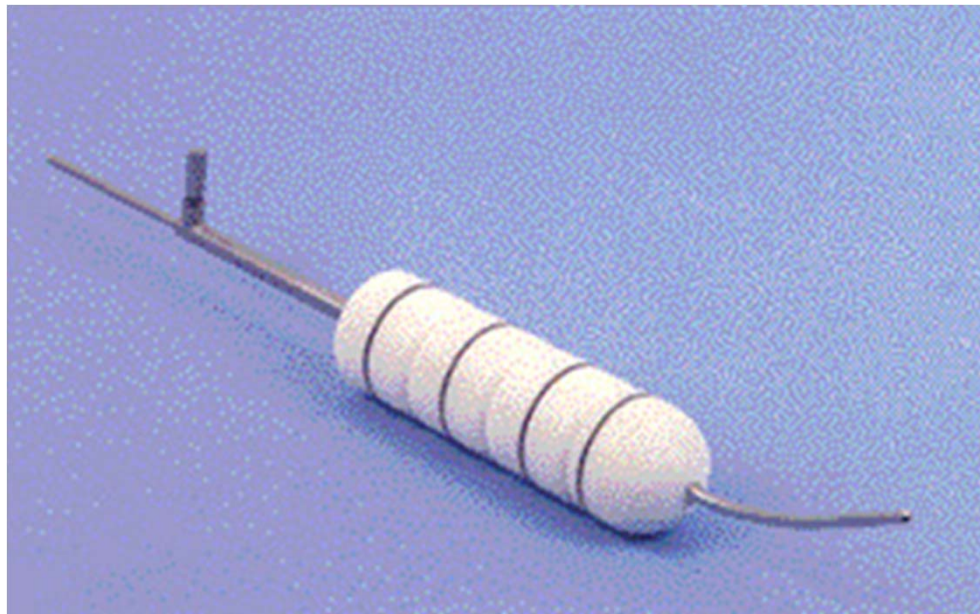
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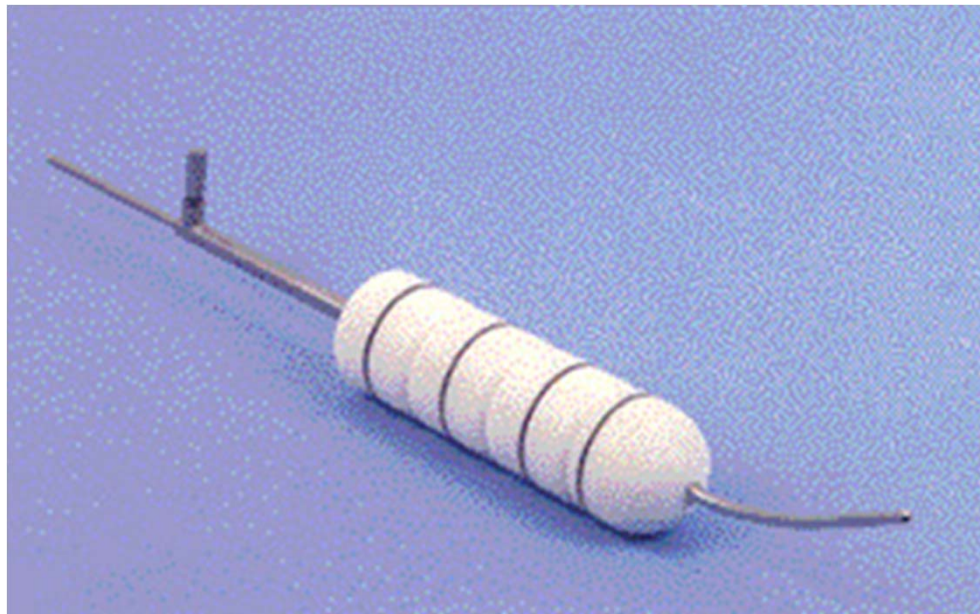
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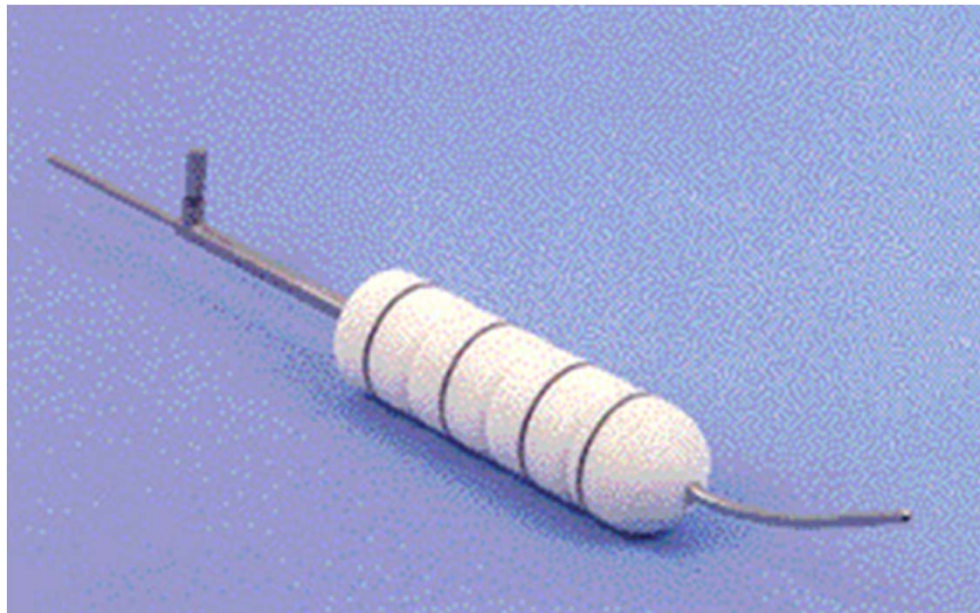
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Low Dose Rate Brachytherapy Cs-137 GYN Medical Event



HDR GYN Medical Event



HDR GYN Medical Event



HDR GYN Medical Event

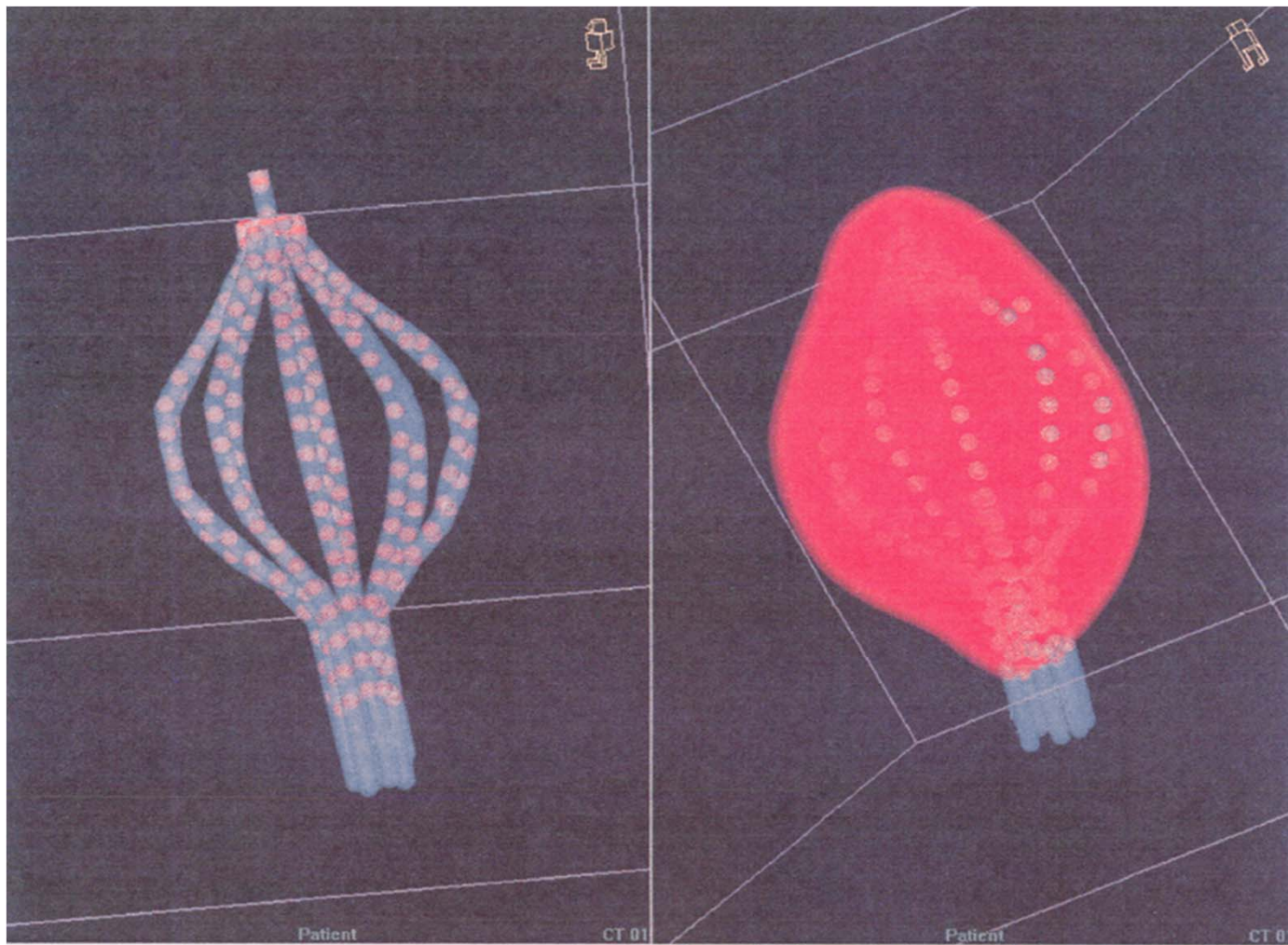


HDR GYN Medical Event

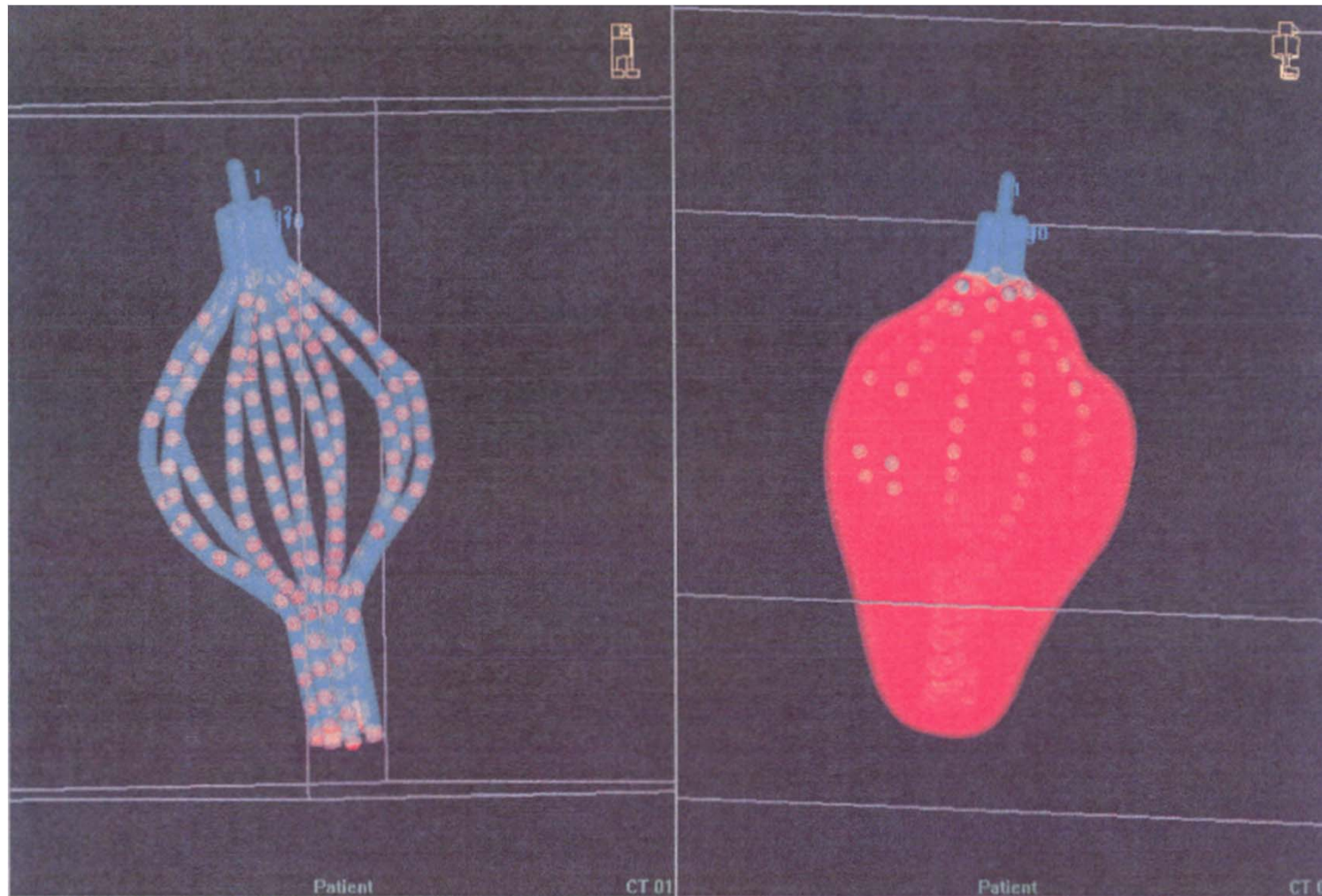




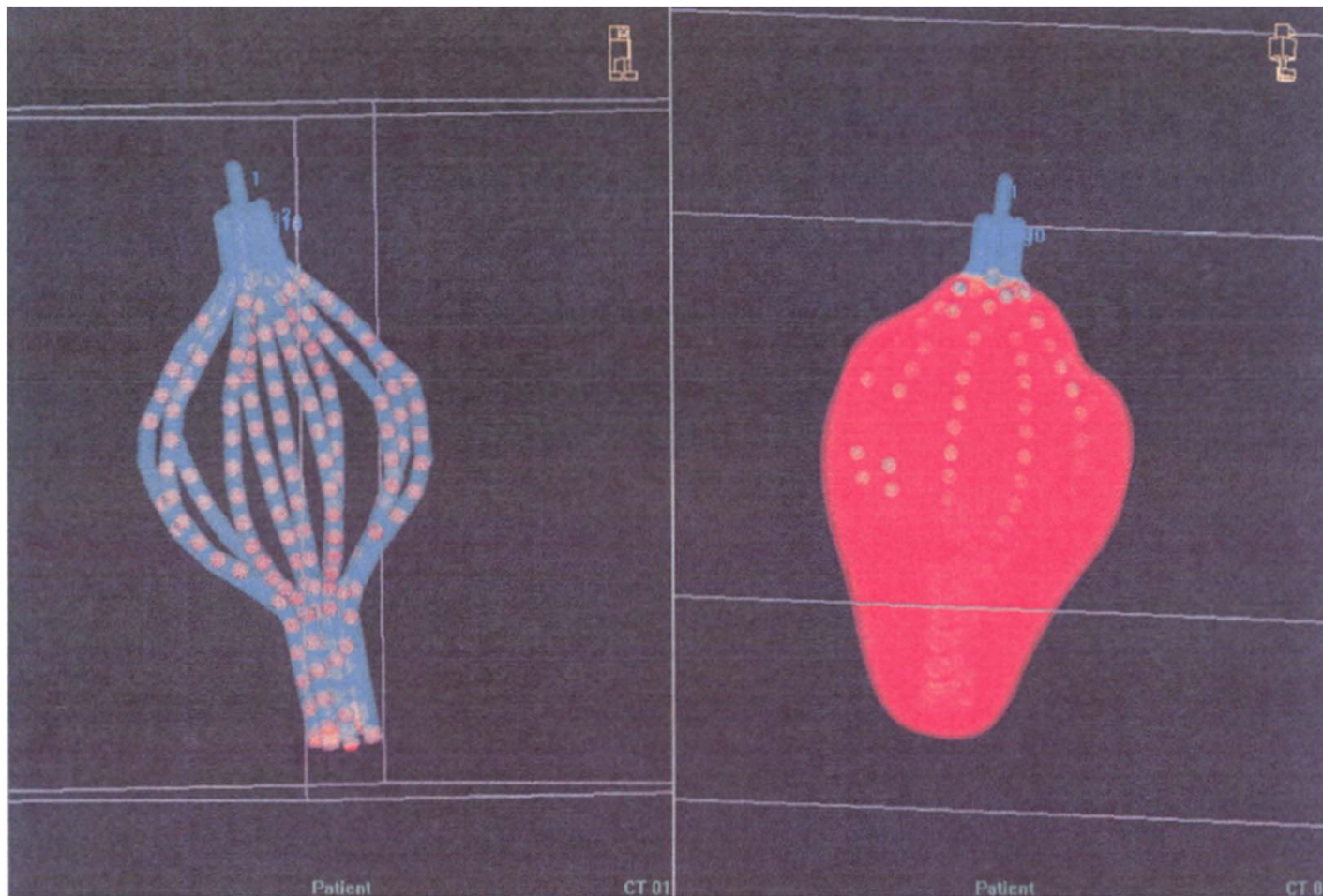
Breast Medical Event



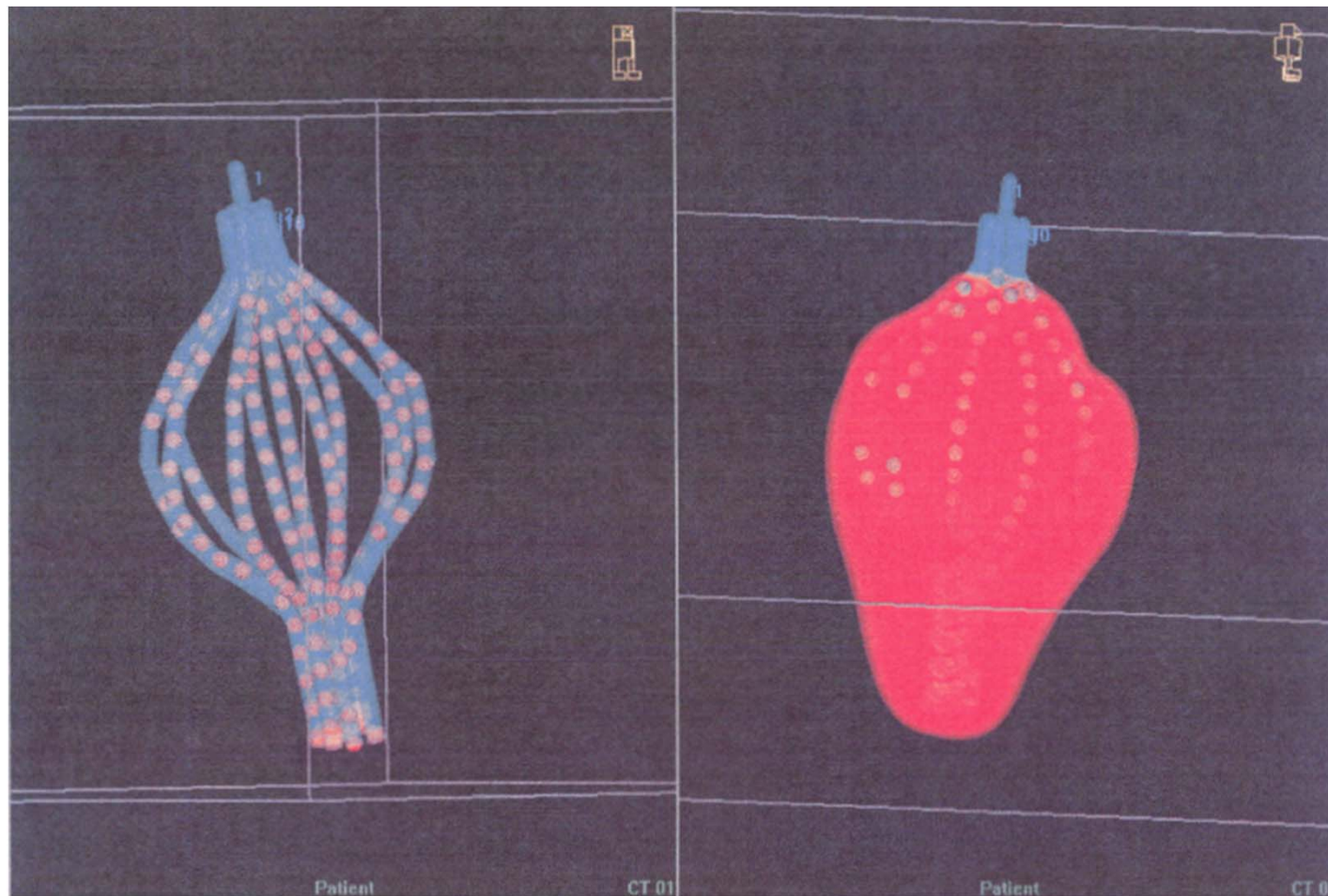
Breast Medical Event



Breast Medical Event



Breast Medical Event



HDR Catheter Problem Medical Event



HDR Catheter Problem Medical Event



HDR Catheter Problem Medical Event



GSR

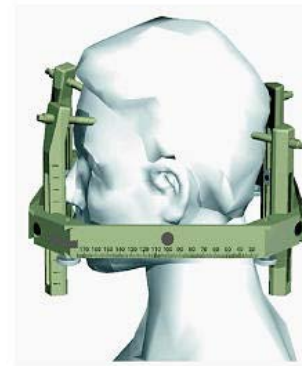
Positioning the patient for treatment



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

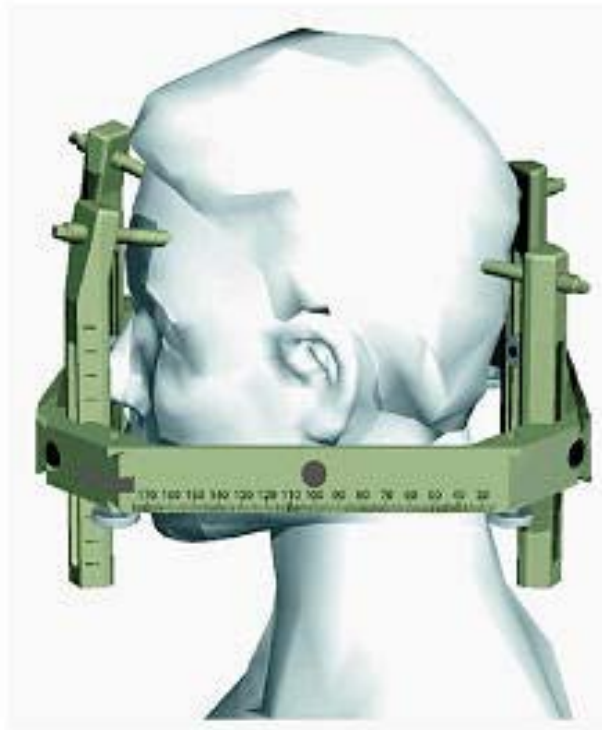


Leksell Stereotactic Frame



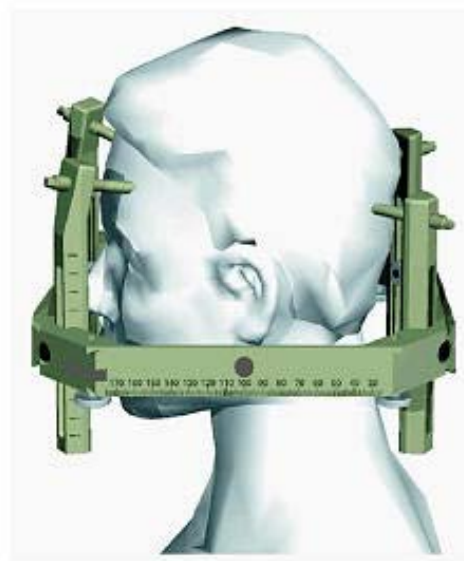
GSR

Leksell Stereotactic Frame



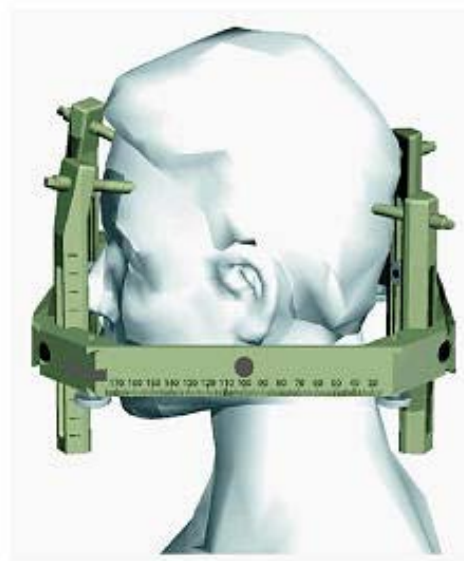


Leksell Stereotactic Frame



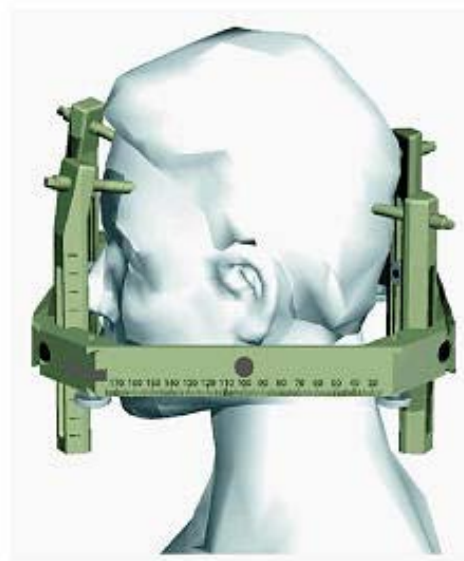
ELEKTA

Leksell Stereotactic Frame



ELEKTA

Leksell Stereotactic Frame



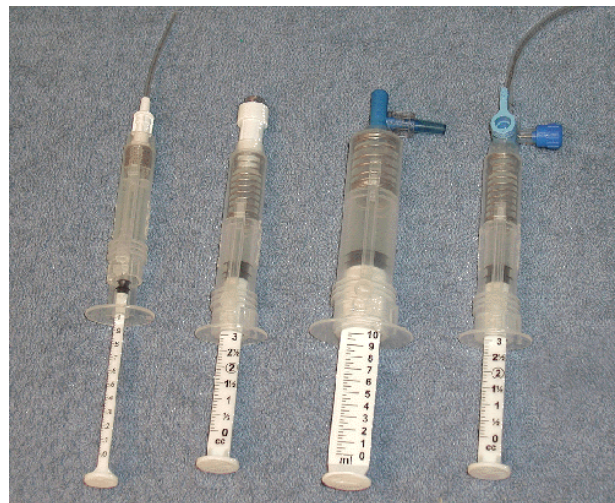
ELEKTA



Radiopharmaceutical Therapy

Gamma Emitters

Root Cause and Contributing Causes



Root Cause and Contributing Causes



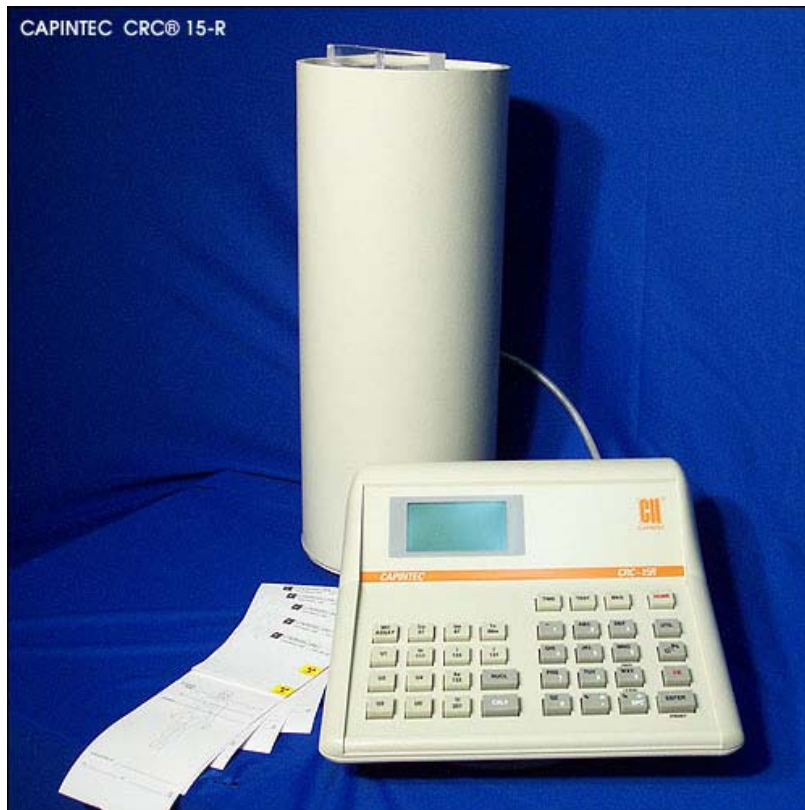
Root Cause and Contributing Causes



Corrective Actions



Iodine-131 Medical Event



Beta Emitters

Radioactivity Measurements



DESIGNED FOR
ZEVALIN™



Technetium-99m Event



QUESTIONS?

