

IGRT

IGRT & Treatment Delivery: Accuracy in Action

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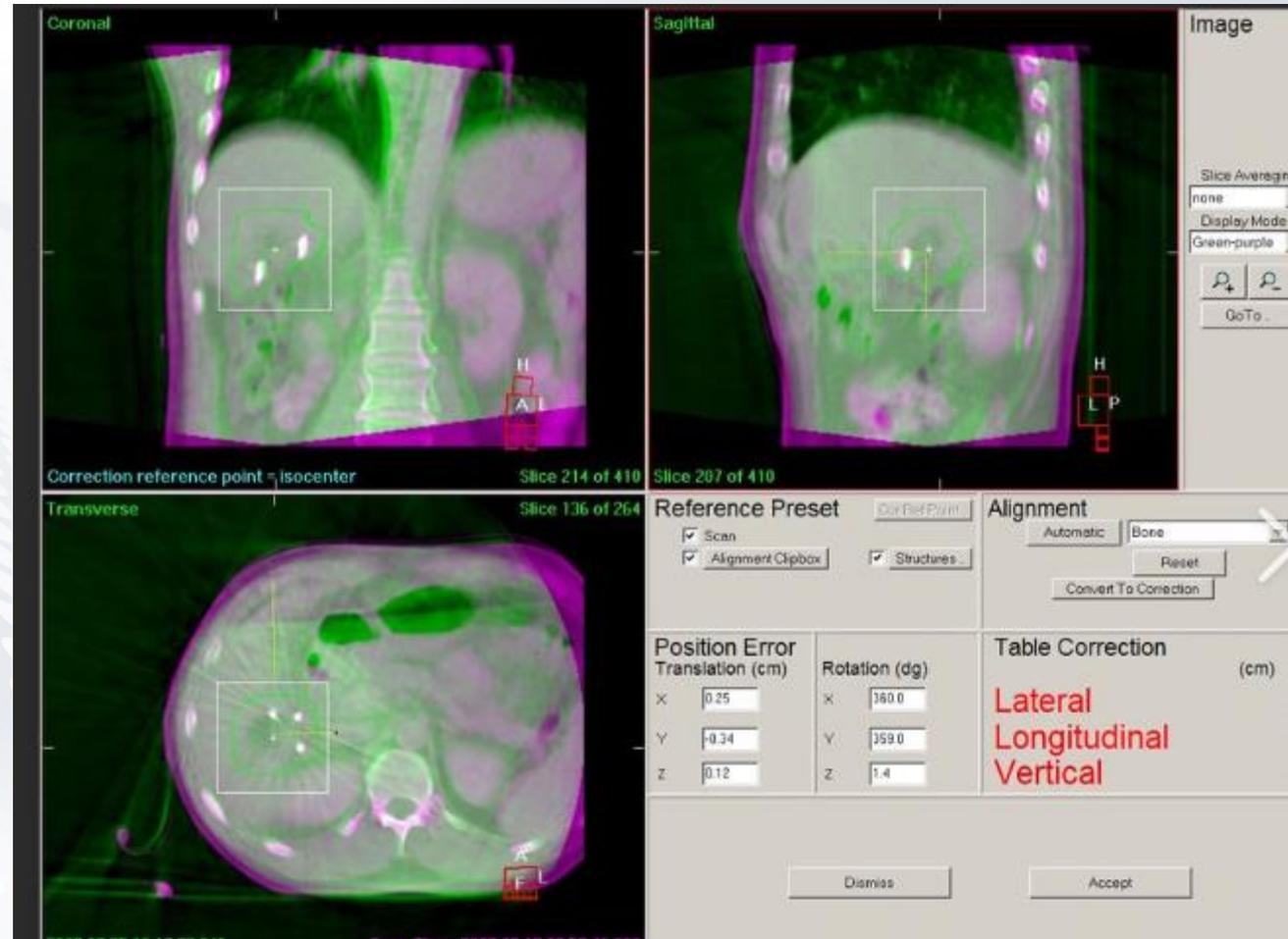
What is it?

IGRT answers three critical questions **every treatment day**:

- Is the patient positioned exactly as planned?
- Has anatomy changed (motion, weight loss, organ filling, tumor regression)
- Snapshot in time to a reference point

IGRT Requirements

- Order
- Type of IGRT
- Frequency of IGRT
- Matching
 - Bone
 - Fiducials
 - Soft tissue
- Shift tolerance policy



Types

- CT on rails
- Cone beam CT
- Ultrasound- BAT
- Tattooless Setup
- MV imaging
- KV / KV orthogonal

Has IGRT become a part of daily patient treatments



Evolution

- In 25 years---

Orders used to clarify imaging to be:

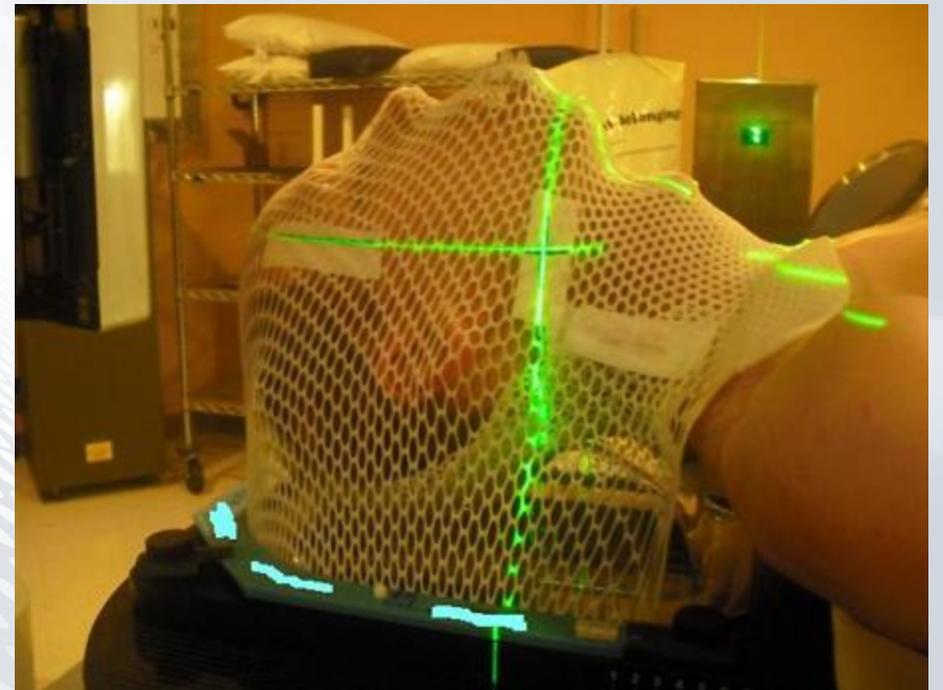
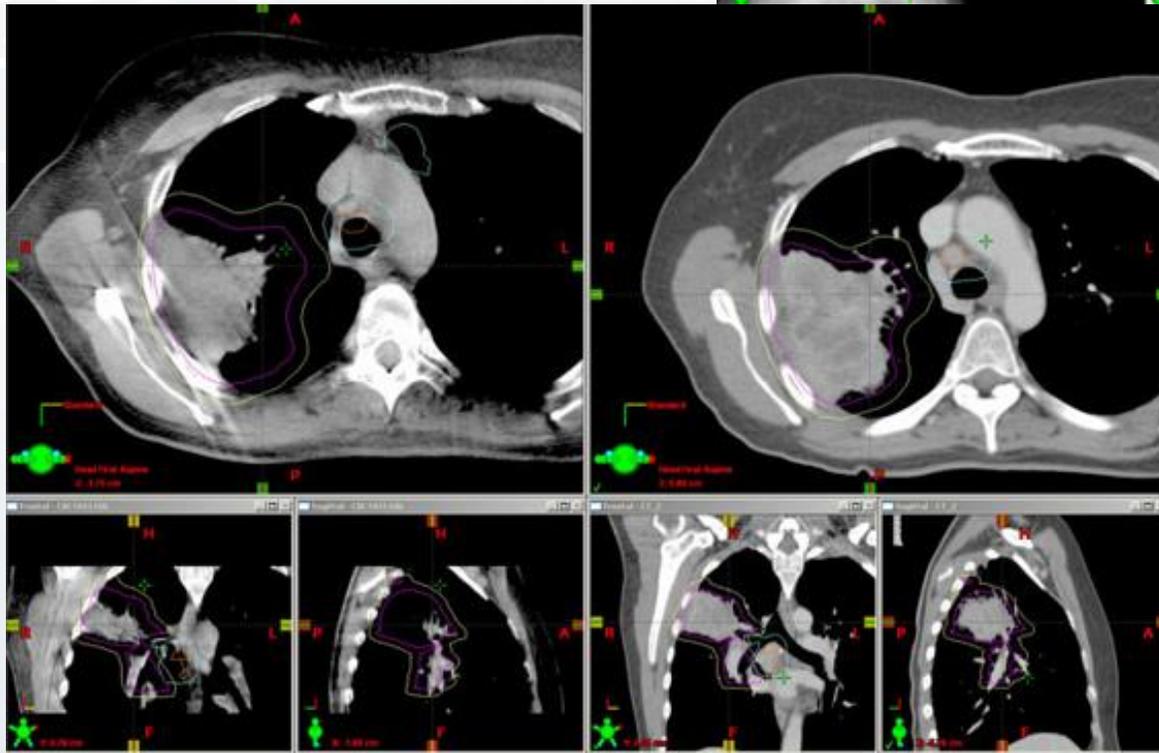
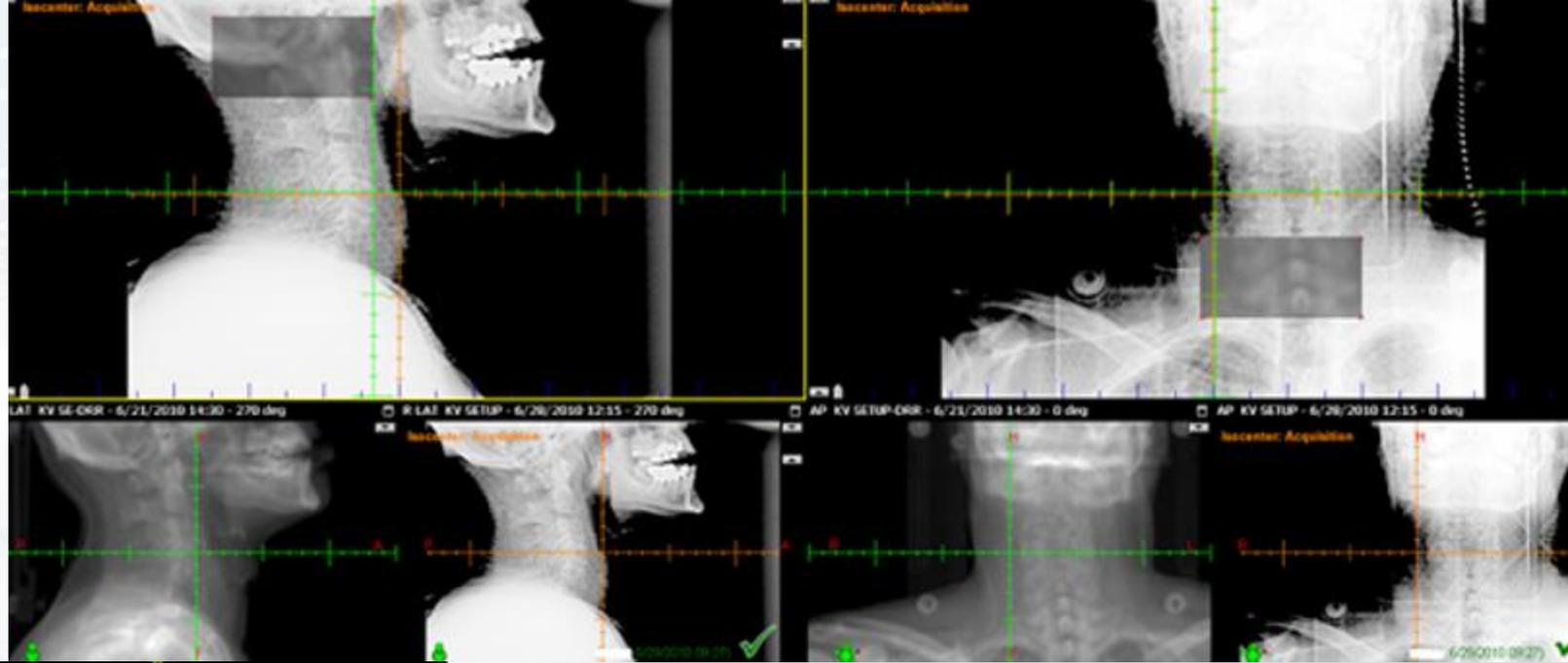
- MV once every 5 fractions
- IMRT- prostate and head and neck kv /kv x 2 per week
- CBCT once weekly



Imaging



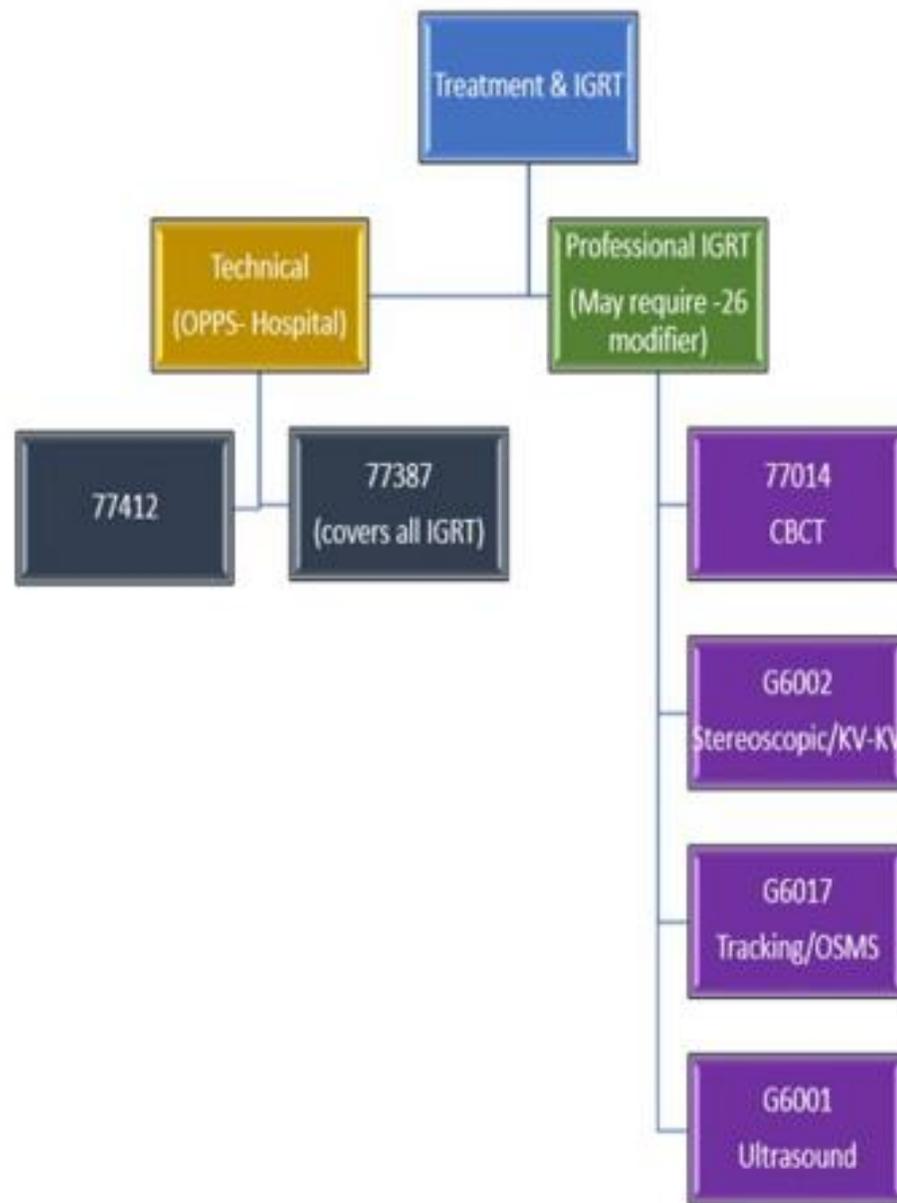
Imaging



Place of Service

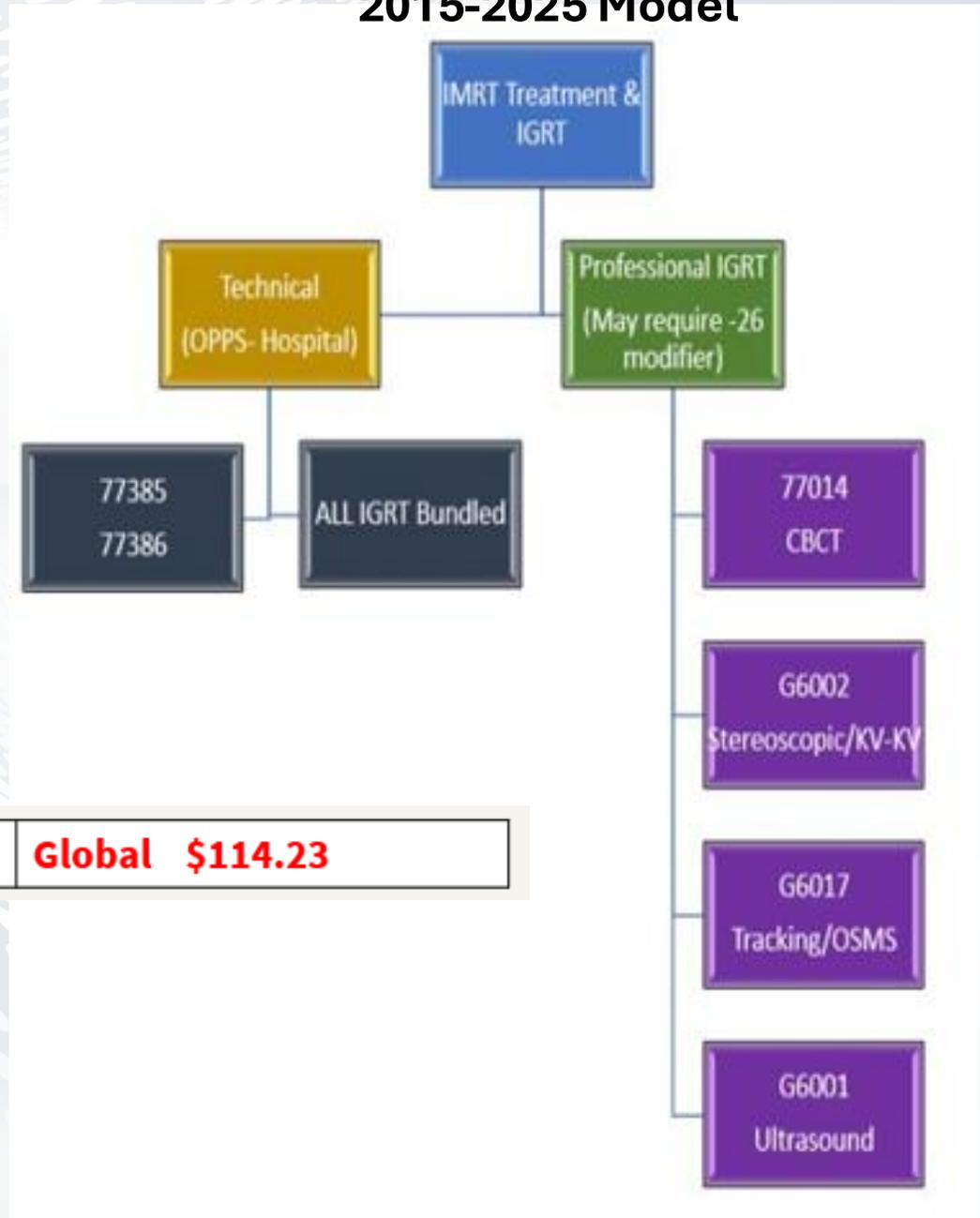
- Freestanding**
 - Global
 - Technical
 - Professional
- Hospital
 - Professional

2015-2025 Model



Place of Service

2015-2025 Model



2025

PRO \$42.72	Tech \$71.51	Global \$114.23
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By the Numbers

- Up to January 1, 2026
 - Utilization
 - Moved to 80+ %

• Medicare 2023

- 77014
 - 2,602,572 Procedures
 - \$795,799,659 in charges
 - \$149,708,728 in payments

What drove the increased utilization of IGRT?

Medicare 2023

- G6002
 - 708,078 Procedures
 - \$153,764,379 in charges
 - \$19,872,266 in payments

By the Numbers

Hospital	City	# Total procedures	% Total procedures	Total charges
Cleveland Clinic Main Campus	Cleveland	52,855	5.50%	\$27,564,319
Moffitt Cancer Center Magnolia Campus (AKA H Lee Moffitt Cancer Center & Research Institute)	Tampa	52,029	5.50%	\$7,598,552
Helford Clinical Research Hospital (AKA City of Hope National Cancer Center)	Duarte	22,724	2.40%	\$7,605,468
Stanford Hospital - 300 Pasteur Dr	Palo Alto	22,162	2.30%	\$16,064,252
University Hospital	Ann Arbor	21,406	2.20%	\$6,673,946
William P Clements Jr University Hospital (FKA UT Southwestern University Hospital - St Paul)	Dallas	18,874	2.00%	\$2,396,998
MaineHealth Maine Medical Center Portland (FKA Maine Medical Center)	Portland	18,115	1.90%	\$2,484,978
Corewell Health William Beaumont University Hospital (FKA Beaumont Hospital - Royal Oak)	Royal Oak	15,244	1.60%	\$4,077,238
Baystate Medical Center	Springfield	15,169	1.60%	\$2,502,885
University of Texas MD Anderson Cancer Center	Houston	13,401	1.40%	\$1,897,327
West Tennessee Healthcare Jackson-Madison County General Hospital	Jackson	12,245	1.30%	\$1,224,857
Aultman Hospital	Canton	11,278	1.20%	\$744,399
Golden Valley Memorial Hospital	Clinton	9,345	1.00%	\$1,817,462
Reading Hospital	West Reading	9,271	1.00%	\$1,202,732
Corewell Health Beaumont Troy Hospital (FKA Beaumont Hospital - Troy)	Troy	9,165	1.00%	\$2,430,538
Maury Regional Medical Center	Columbia	9,157	1.00%	\$1,009,873
Kettering Health Main Campus (FKA Kettering Medical Center)	Dayton	8,711	0.90%	\$1,226,384

2026 Code Deletions IGRT

Deleted

- 77014
- G6002
- G6017
- 77417

IGRT Professional Component ONLY

All IGRT CPT codes replaced with 77387

CPT Code-Modifier	Long Descriptor	OPPS Payment Status	OPPS Proposed APC	PFS Procedure Code Status	PE Only Code?
77387	Guidance for localization of target volume for delivery of radiation treatment, includes intrafraction tracking, when performed	N	N/A	A	
77387-26 Professional component				A	
77387-TC Technical component				B	
	\$36.64				

Treatment Delivery and IGRT

CPT Code	Long Descriptor
77402	Radiation treatment delivery; Level 1 (eg, single electron field, multiple electron fields, or 2D photons), including imaging guidance, when performed
77407	Radiation treatment delivery; Level 2, single isocenter (eg, 3D or IMRT), photons, including imaging guidance, when performed
77412	Radiation treatment delivery; Level 3, multiple isocenters with photon therapy (eg, 2D, 3D, or IMRT) OR a single isocenter photon therapy (eg, 3D or IMRT) with active motion management, OR total skin electrons, OR mixed electron/photon field(s), including imaging guidance, when performed

The Big Surprise

- IGRT wasn't deleted entirely
- For 2026, there is no distinction with IGRT and:
 - IMRT
 - 3D
- Medical Necessity and Orders are still required

Distinction

IGRT is NOT Active motion management

IGRT does NOT influence treatment delivery level

Active motion management MAY influence it

Scrutiny is being applied to active motion management

Learning As We Go

Payers and Utilization management companies currently have various interpretations as to when and why IGRT is or will be approved

Thank You

The
Prostate
SBRT
Course

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