Radiation Therapy External Beam Coding & Documentation 2024

Regina Hargrove, MBA, RT(R)(T) | Revenue Cycle Consultant Leah Harlin, CPC | Director of Coding Services



01

Every practice is unique, and it is the Client's responsibility to implement these opinions appropriately to Client's specific practice and circumstances. Client is not under the obligation to implement any recommendations made by RBS. Recommendations made by RBS are our opinions only, and Client should consult an attorney regarding the application of these recommendations in Client's specific market and circumstance. RBS is not a law firm and is not providing legal advice to Client.



Disclaimers

02

Client agrees to indemnify and hold RBS, its affiliates and owners, and their respective officers, directors, agents, employees and representatives (each an "RBS Indemnified Party") harmless from and against any and all claims, actions, liabilities, losses, costs and expenses of any nature whatsoever, including reasonable attorneys' fees and other costs of investigating and defending any such claim or action ("Losses"), which may be asserted against any of RBS Indemnified Parties, in connection with Client's decision to implement any recommendations made by RBS.

03

CPT copyright 2022 American Medical Association. All rights reserved. Fee schedules, relative value units, conversion factors and/or related components are not assigned by the AMA, are not part of CPT, and the AMA is not recommending their use. The AMA does not directly or indirectly practice medicine or dispense medical services. The AMA assumes no liability for data contained or not contained herein. CPT is a registered trademark of the American Medical Association.



Documentation Requirements: Timely Signature and Use of Cloned Notes



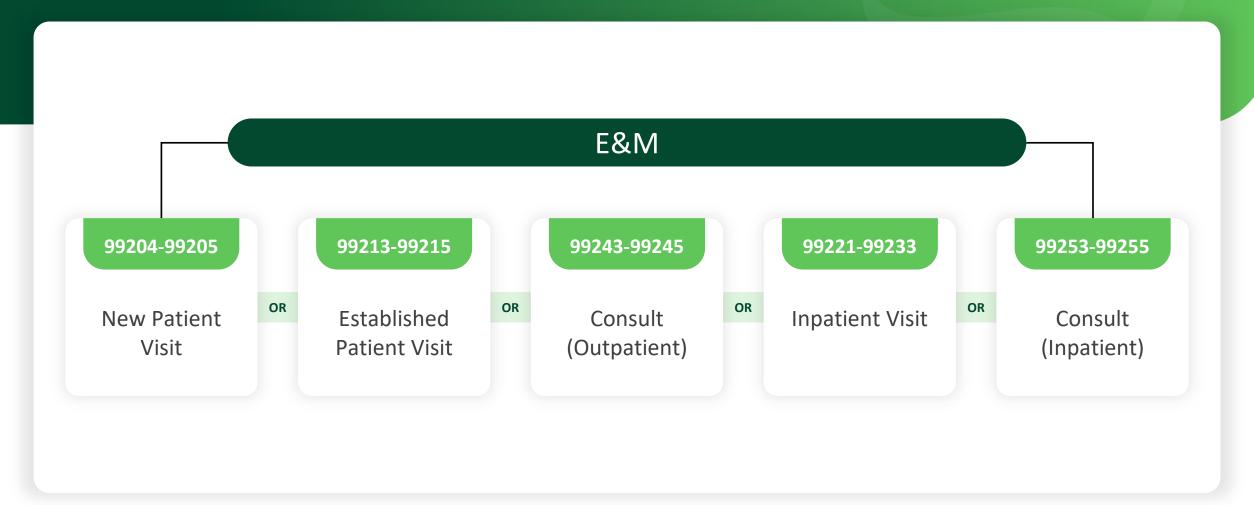
- Authenticating orders and procedure notes in a timely manner are required by CMS
- Documents should be signed on the date of the procedure or the following day
- A full physician signature with a date and time stamp are required on every order and procedure note
- Clinical staff should not proceed with any intervention without a signed physician order



- CMS frowns upon the use of cloned notes, copied and paste notes, check boxes and fill in the blank notes that are generic in nature
- Physician documentation must be patient specific and tumor specific
- A document must not read identically from patient to patient
- These rules apply to procedure notes and medical necessity

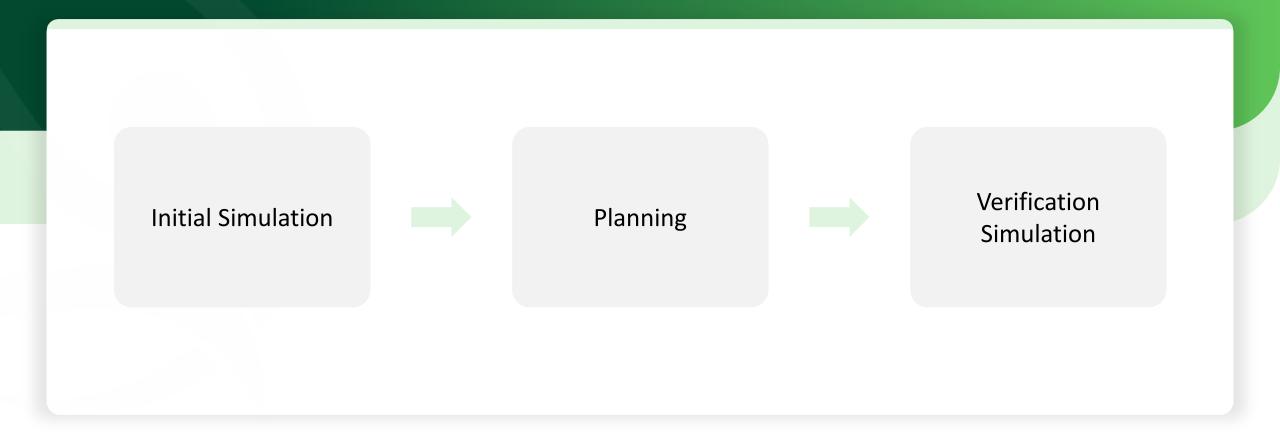


Step 1: Decision to Treat



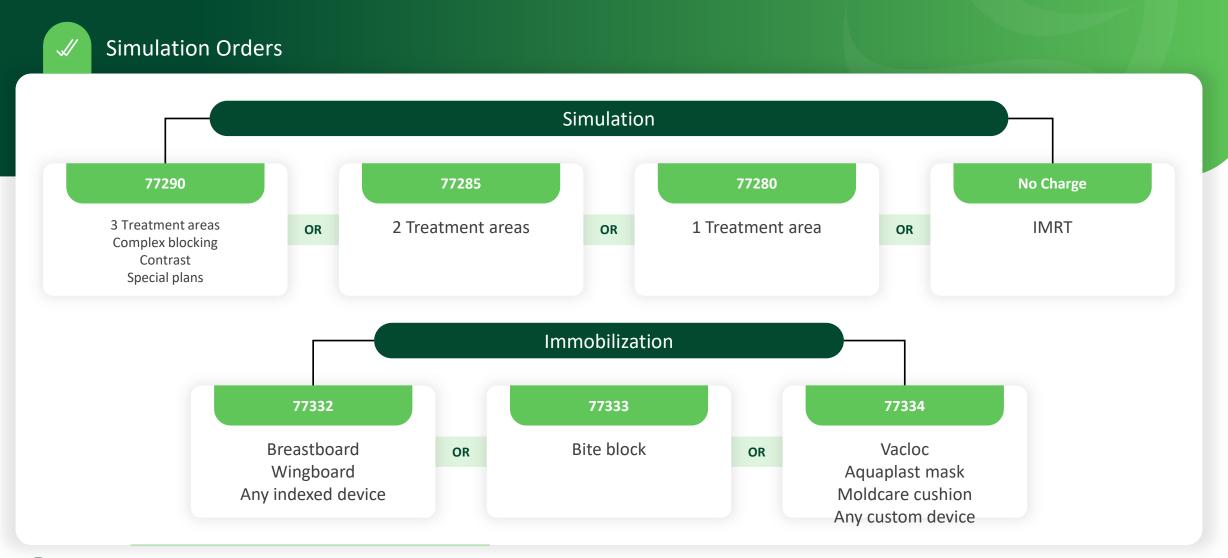


Simulation Overview





Step 2: Simulation





Simulation Orders

Documentation requirements



Specifications for patient positioning



Immobilization devices ordered



Type(s) of imaging and use of contrast



Anatomy and implanted objects to identify

This document must be signed by the physician prior to any simulation work being performed.



Initial Simulation Procedure Note

Documentation requirements



Specifications for patient positioning used in setup



Immobilization created and documented including billable and non-billable devices



Type(s) of imaging obtained and contrast administered (if applicable)



Anatomy and implanted objects identified



Initial Simulation

Non-IMRT		IMRT
77290	77334	77334
OR		OR
77290	77334x2	77334x2
OR		OR
77290	77332	77332
OR		OR
77290	77333	77333
OR		OR
77290		NONE
OR RARELY		
77280 OR 77285		N/A



Additional Clinical Scenarios for Simulation





Step 3: Clinical Treatment Plan (CTP)

OR

77263

Complex blocking/tangential ports/special wedges or compensators/3 or more treatment areas/special beam considerations/multiple treatment modalities

77262

3 or more converging ports/two treatment sites/multiple blocks/special time dose constraints

77261

Single port/simple parallel opposed ports with simple/no blocking

OR



Criteria for Each Level of Clinical Treatment

CPT CODE	DESCRIPTOR	CRITERIA FOR LEVEL		
		The criteria below should be met:		
77261		Special tests	None.	
	Therapeutic radiology	Modality	External beam.	
	treatment planning; simple	Treatment time/dose	Standard fractionated (once per day) treatment. Normal tissues may be included, and normal tissue tolerance may be exceeded if patient survival is presumed to be limited.*	
	Sp.:0	Ports	Single area of interest in a single port or simple parallel opposed ports.	
		Devices	None, or single set of any type of pre-made or generic devices. Immobilization devices not designed for a specific patient, e.g., belly boards, breast boards, etc.	
		In addition to the criterial from 77261, at least one additional criterion below should be met:		
	Therapeutic radiology	Special tests interpreted necessary to define tumor volume for treatment purposes	Routine diagnosis CT, MRI, ultrasound or nuclear imaging.	
77262	treatment planning;	Modality	External beam.	
//202	intermediate	Treatment time/dose	Special time-dose considerations (e.g., hyperfractionated) treatment. Treatment should be calculated to dose within a volume.	
		Ports	Three or more converging ports, two separate treatment areas, or multiple blocks.	
		Devices	Multiple sets of pre-made or manufactured generic treatment devices.	
	Therapeutic radiology treatment planning; complex	At least one of the criteria below must be met:		
77263		Special tests interpreted necessary to define tumor volume for treatment purposes	CT, MRI, angiography, PET scan, molecular imaging, selected/requested to assist in the radiation oncologist's planning process.	
		Modality	External beam as a primary modality (with or without electron boost) in conjunction with another modality (e.g., brachytherapy**, hyperthermia, concurrent chemotherapy). 3D conformal therapy, intensity-modulated radiation therapy (IMRT), mixed beam or particle therapy***, SRS, SBRT.	
		Treatment time/dose	Standard or nonstandard fractionation. The number of critical/sensitive organs will not determine complexity, but dose levels should not reach or exceed normal tissue tolerance if survival reasonably anticipated into a period of risk. Calculated doses must be to a volume.	
		Ports	Three or more separate treatment fields and/or rotational arcs. Tangential and/or oblique fields****.	
		Devices	Blocks/immobilization devices must be customized and must be required for appropriate clinical management. Custom blocks fabricated for palliative ports only with supporting written justification and clinical appropriateness.	



Documentation Requirements

In addition, it is a great idea to add orders and medical necessity to consolidate documentation. Check boxes for these items are not adequate to document for medical necessity. RBS suggests the following also be included since they are often forgotten, which can create confusion with the payer if/when an appeal is necessary:









Medical necessity statement – (IMRT, SBRT, IGRT, etc.) Ordering of Special Medical Physics Consults (77370)

Ordering of Special Dosimetry (77331) Special Treatment Procedure (77470)



Documentation Requirements



Curative or palliative intent



Beam configuration and energy



Any testing that has not been completed and that needs to be considered either for determination of extent of disease or for delineation of tumor/critical structures



Treatment dose and fractionation



Treatment ports/fields and necessary treatment devices



Best modality(s) to successfully treat the patient



Utilization of image guidance including type and frequency



Key Takeaways

Clinical Treatment Plan







All orders should be completed and signed prior to staff performing any procedures



Physician documentation must be signed in a timely manner



Medical necessity is required for IMRT, IGRT, SRS, SBRT, RMM and Brachytherapy

Simulation



All simulations including RMM and verification sims need an order and a procedure note



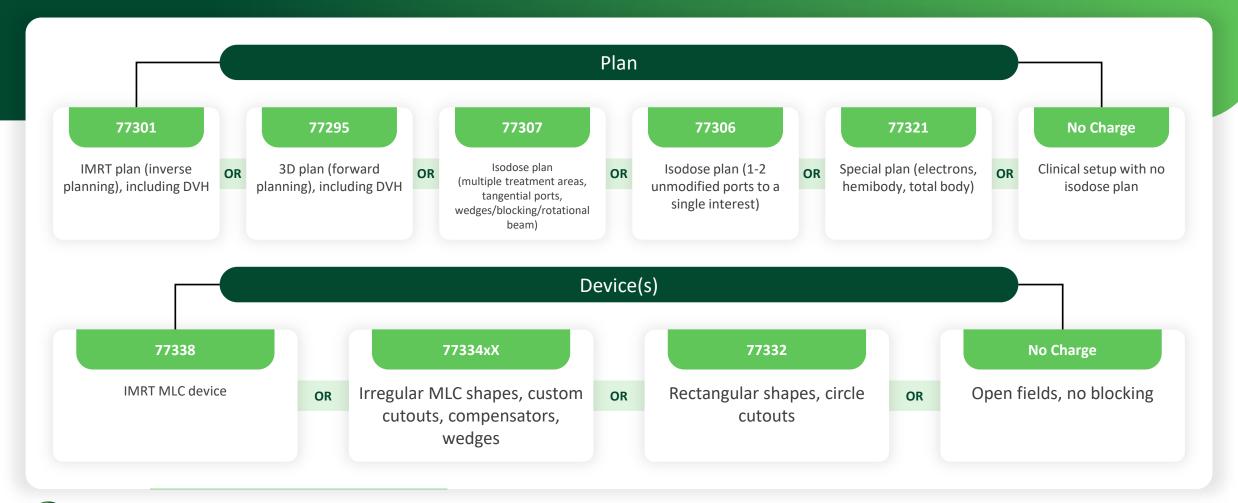
RMM is billed on the same DOS as the plan



immobilization devices are billed with the simulation

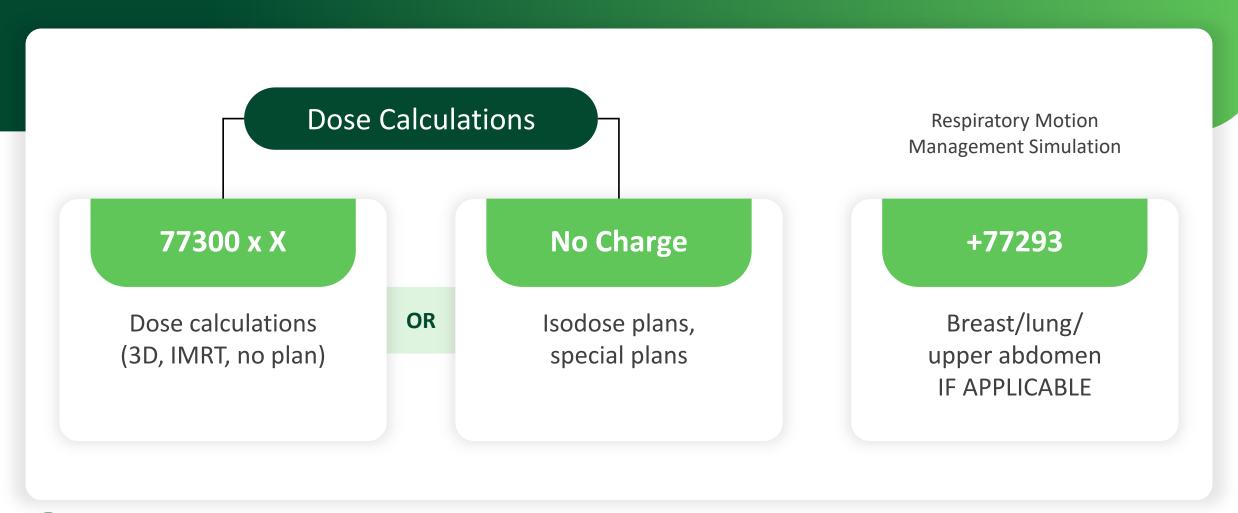


Step 4: Planning Codes

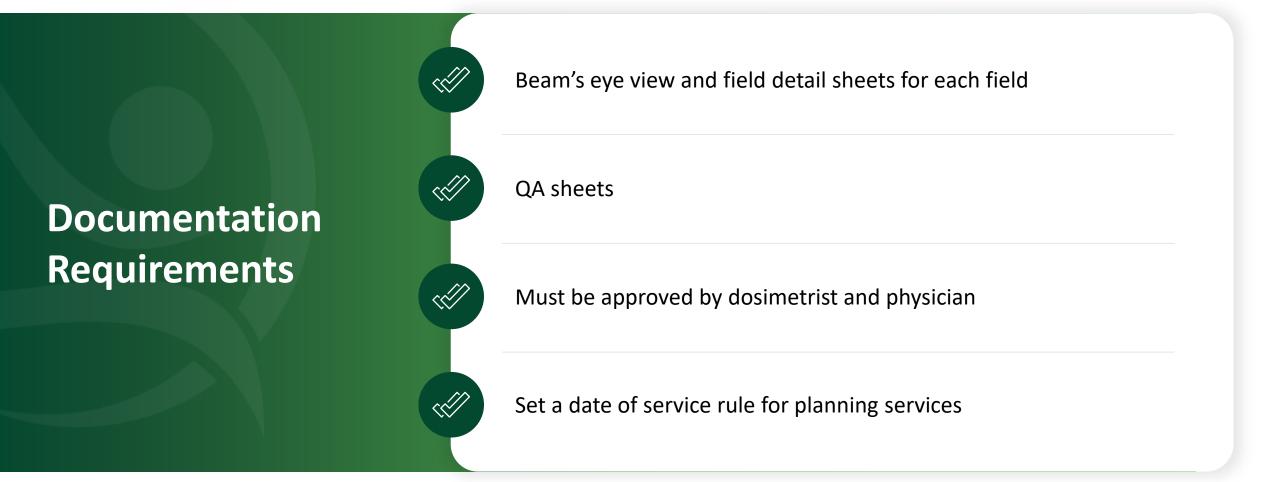




Planning Codes, cont'd



2D PLANS





3D PLANS

Documentation Requirements



Beam's eye view and field detail sheets for each field



QA sheets



Must be approved by dosimetrist and physician



Set a date of service rule for planning services

Plus



Dose volume histogram



3D reconstruction



Independent calculation sheets



IMRT Plans

Beam's eye view and field detail sheets for each field QA sheets Must be approved by dosimetrist and physician **Documentation** Set a date of service rule for planning services Requirements Dose volume histogram 3D reconstruction Independent calculation sheets

Plus



3D comparison (when applicable)



Respiratory Motion Management Simulation

Documentation requirements



3 phases of imaging (inspiration, expiration, neutral breath)



Chest and abdominal tumors (lung is most common)



Detail of initial setup and each phase of imaging



Statement of medical necessity



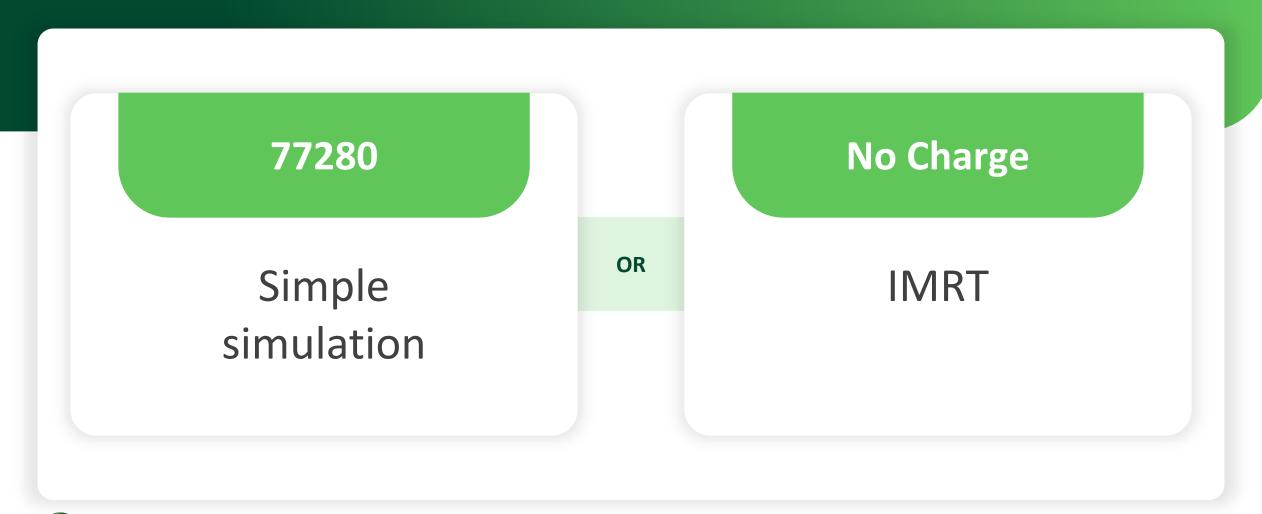
Respiratory Motion Management Simulation

3D/IMRT Plans

+77293 billed on same DOS as plan



Step 5: Verification Simulation



Verification Simulation

Specifications for patient positioning used Immobilization used Documentation requirements Machine the simulation was performed on Setup differences from the initial simulation



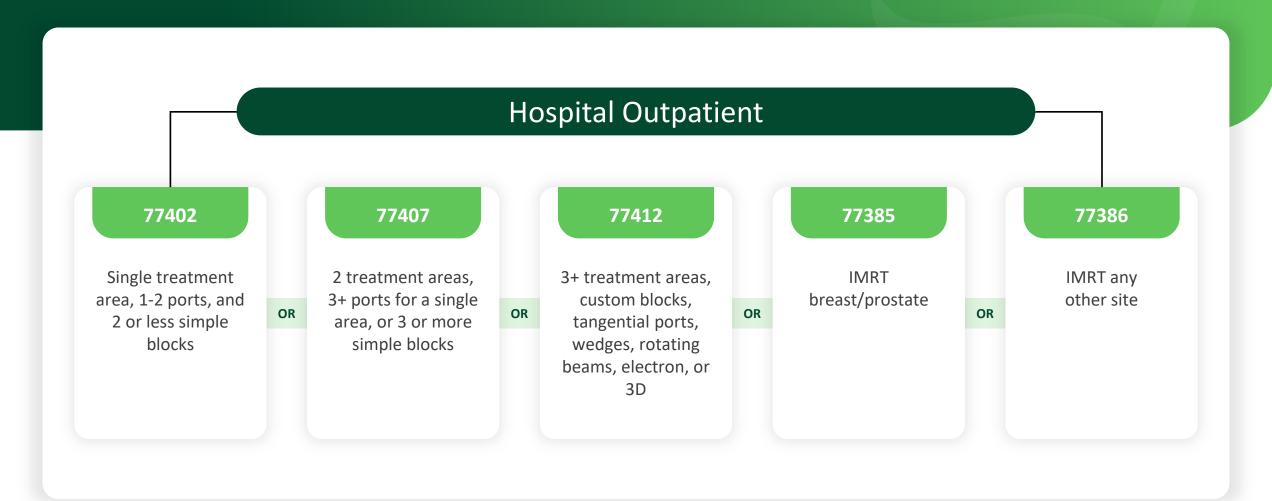
Step 6: Daily Treatment Delivery



- 77401 Radiation treatment delivery, superficial and/or ortho voltage, per day
- Do not report any of the following codes with 77401 throughout the entire course of therapy:
 - 77261, 77262, 77263 Clinical Treatment Planning
 - 77332, 77333, 77334 Treatment Devices
 - 77306, 77307, 77316, 77317, 77318 Isodose Planning
 - 77336, 77370 Weekly & Special Medical Physics Consult
 - 77427, 77431, 77432, 77435, 77470, 77499 Treatment Management Codes
 - 77373, 77402, 77407, 77412, 77417, 0394T, 0395T Treatment Delivery Codes
- E/M services may be billed. Simulations (77280, 77290) may be reported at the beginning of treatment and at any significant changes. Dose calcs may be reported per site (77300).

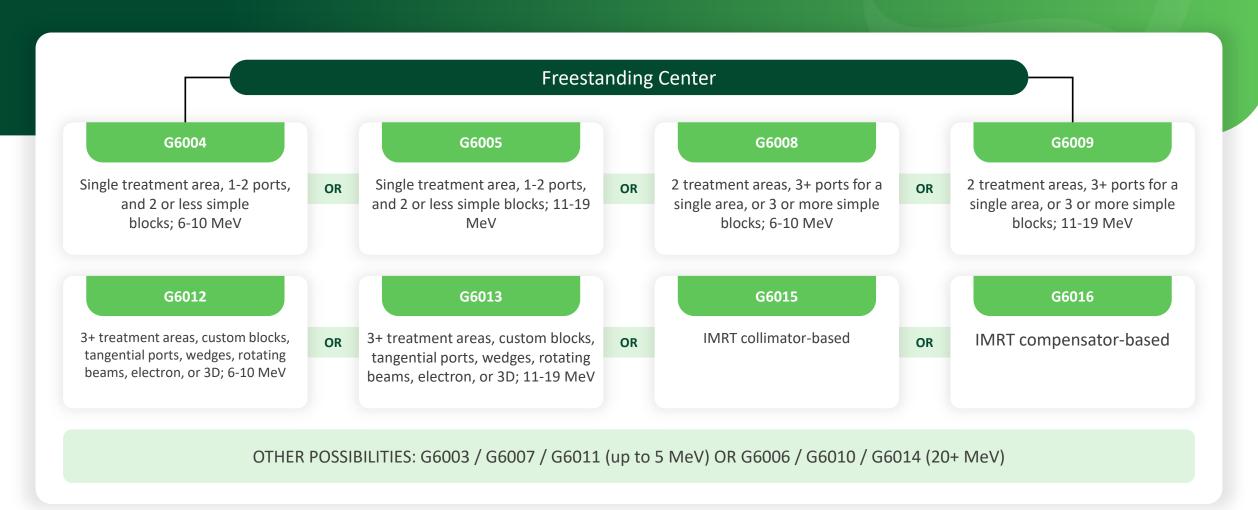


Step 6: Daily Treatment, cont.





Step 6: Daily Treatment, cont.





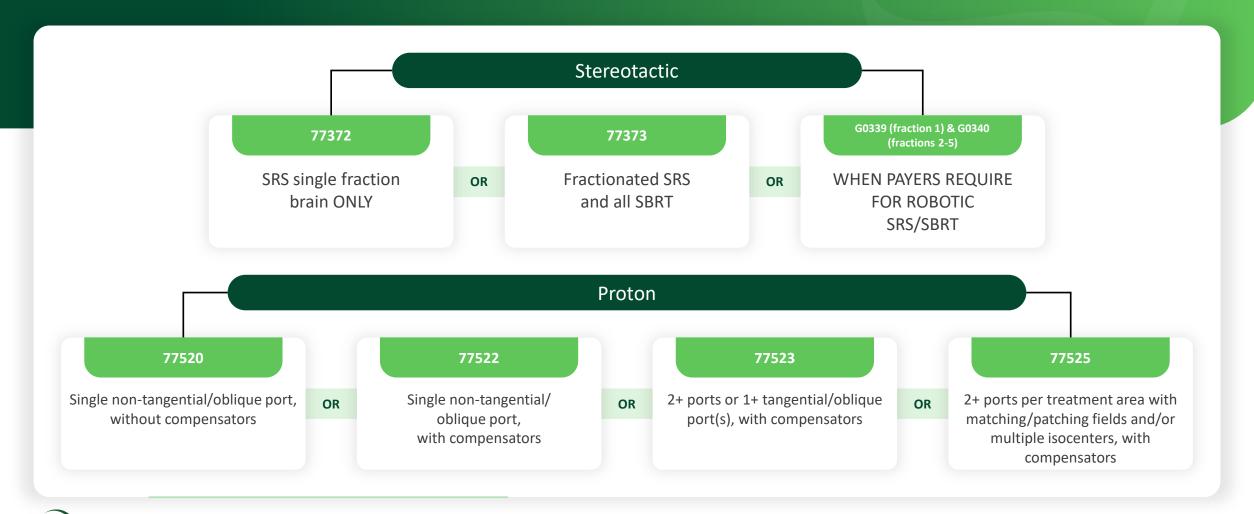
ASTRO Comparison HCPCS to CPT

TIER	<5 MV	6-10 MV	11-19 MV	>20 MV
Simple	G6003	G6004	G6005	G6006
Intermediate	G6007	G6008	G6009	G6010
Complex	G6011	G6012	G6013	G6014

CPT [©] CODE	DESCRIPTION	CRITERIA FOR LEVEL	
77401	Radiation treatment delivery, superficial and/or ortho voltage, per day (Do not report 77401 in conjunction with 77373)	Radiation treatment delivery <1MeV.	
77402	Radiation treatment delivery, ≥1 MeV, simple (Do not report 77402 in conjunction with 77373) (77403, 77404, 77406 have been deleted. To report use 77402)	All of the following criteria are met (and none of the complex or intermediate criteria are met): Single treatment area. One or two ports. Two or fewer simple blocks.	
77407	Radiation treatment delivery, ≥1 MeV, intermediate (Do not report 77407 in conjunction with 77373) (77408, 77409, 77411 have been deleted. To report use 77407)	All of the following criteria are met (and none of the complex criteria are met): Two separate treatment areas. Three or more ports on a single treatment area. Three or more simple blocks.	
77412	Radiation treatment delivery, ≥1 MeV, complex (Do not report 77412 in conjunction with 77373) (77413, 77414, 77416 have been deleted. To report use 77412)	Any one of the following criteria are met: Three or more separate treatment areas. Custom blocking. Tangential ports, Electron beam, Wedges, Rotational beam. Field-in-field or other tissue compensation that does not meet IMRT guidelines.	



Step 6: Daily Treatment, cont.





Stereotactic Radiation Therapy

Stereotactic radiation therapy is defined as the use of external beam radiation therapy using stereotactic guidance to deliver very precise doses of radiation to a defined tissue volume

There are 5 general techniques for delivering stereotactic radiation therapy

- Gamma Knife (Radiosurgery, SRS))
- Conventional XRT (SRS, SBRT)
- Proton therapy [SRS, SBRT]
- CyberKnife
- SCINTIX (BgRT)



Stereotactic Procedures (cranial, single fraction)



Stereotactic radiosurgery (SRS) is a method of delivering high doses of ionizing radiation to a small target within the cranium (skull)



The technique differs from conventional, fractionated radiotherapy, which involves exposing large areas of intracranial tissue to relatively broad fields of radiation over a number of sessions



The precision and accuracy of these treatments often involve multimodality imaging such as MRI and CT



Treatment accuracy and precision can deliver the prescribed dose to within 1mm of the intended target



Stereotactic Procedures (cranial, single fraction)



When the treatment is delivered to the contents of the cranial vault, brain, and if the treatment consists of one fraction, it is considered a single SRS treatment



Technical payment will be limited to a single fraction reimbursement 77371 or 77372 or G0339. A procedure note is required.



Professional payment will be 77432 and a physician management note is required (similar to OTV note). This note should be done on the same DOS as the procedure.



Stereotactic Procedures (cranial, 2-5 fractions)



When the treatment is delivered to the contents of the cranial vault, brain, and if the treatment exceeds one fraction (2-5) it is considered SBRT



More than 5 fractions is conventional treatment



SBRT is considered within the domain of the radiation oncologist



Technical payment will be reimbursed as 77373 per fraction delivered (HOPPS) and a daily physician procedure note is required



Professional payment will be 77435 X 1 and a physician management note is required (similar to OTV note). This note can be done on any DOS that a treatment is delivered.



Stereotactic procedures (extracranial)



Stereotactic Body Radiation Therapy (SBRT) is utilized as the technique of stereotactically treating small localized lesions outside of the cranial vault, anywhere within the body



Check your LCD for specific rules related to payment for SBRT based on ICD-10



SRS/SBRT Medical Necessity



Boost or salvage for lesions < 5 cm



Karnofsky > 40 (or expected to return to 70 or greater with treatment)



Limit to 3 primary brain lesions (unless enrolled in an IRB approved trial)



Relapse in previously irradiated cranial or spinal field



See your carrier policy for additional information





Step 7: Guidance/Imaging

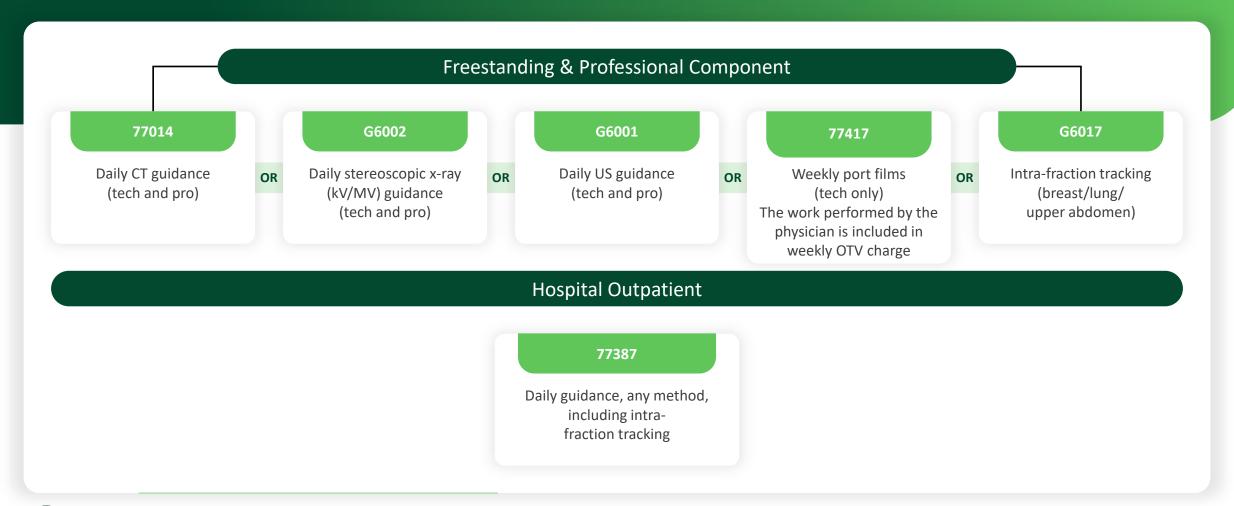




Image Guidance in Radiation Therapy

Ultrasound, Stereoscopic X-Ray, CT Guidance or MRI

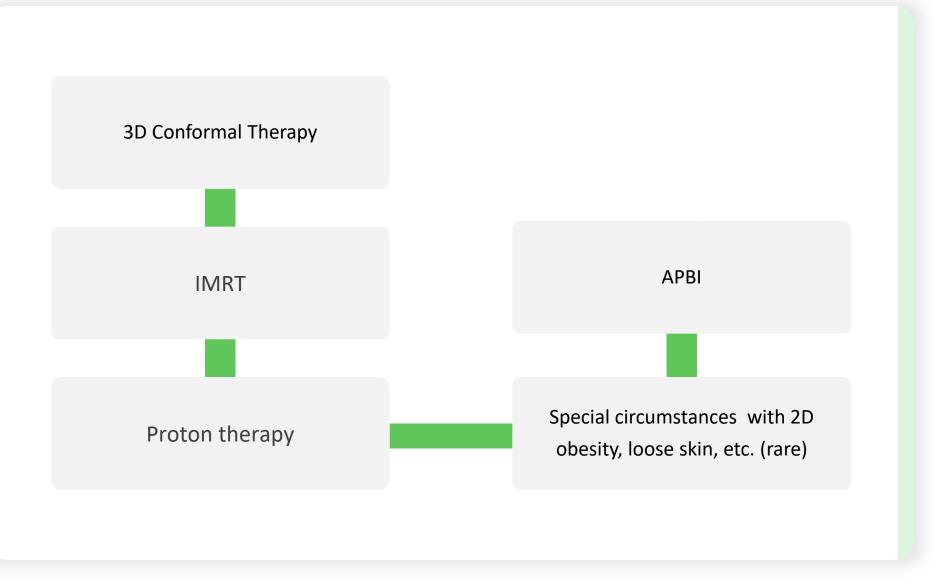
Utilization on patients where critical structures are adjacent to treatment area

Completed by trained radiation therapist under the supervision of the radiation oncologist

 Shifts may be required that are outside of standard tolerances

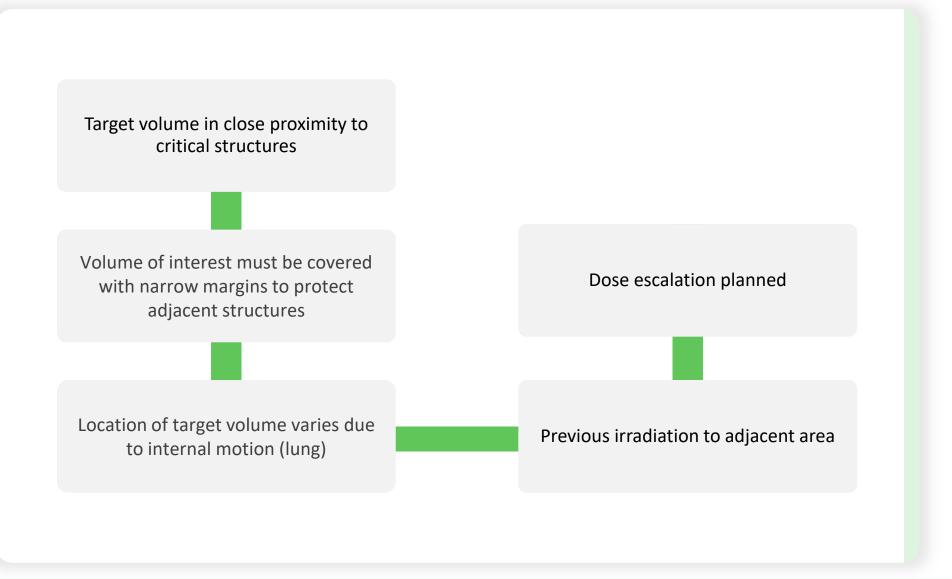


Utilization of Image Guidance





Clinical Indications for IGRT & Medical Necessity





CT Guidance



- **→** 77014 CT Guidance
- Historically utilized for acquisition of CT data set during simulation process
- CT images acquired, fusion of images is performed (registration), manual or automated adjustments to patient positioning is performed to ensure treatment positioning is accurate
- Professional component under MPFS continues to be paid



Stereoscopic X-Ray Guidance



- G6002 Stereoscopic x-ray guidance for localization of target volume for the delivery of radiation therapy.
 - kV or MV
- Imaging, localization and correction of target volume placement prior to treatment delivery
- 3D or IMRT
- Orthogonal images with fiducial markers OR bony anatomy with fusion of images
- MPFS professional and technical payment
- HOPPS Packaged into treatment delivery



Intrafraction Tracking

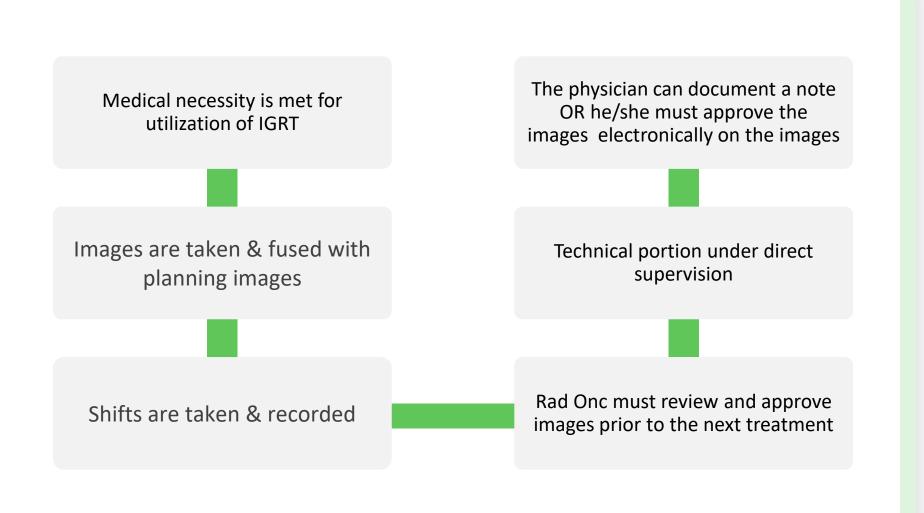
G6017 – Intra-fraction location and tracking of target or patient motion (via 3D positional tracking or surface tracking) during delivery of radiation therapy for each fraction of treatment

No wRVU's assigned under MPFS (should bill as some non-Medicare payers will reimburse)

Packaged under HOPPS



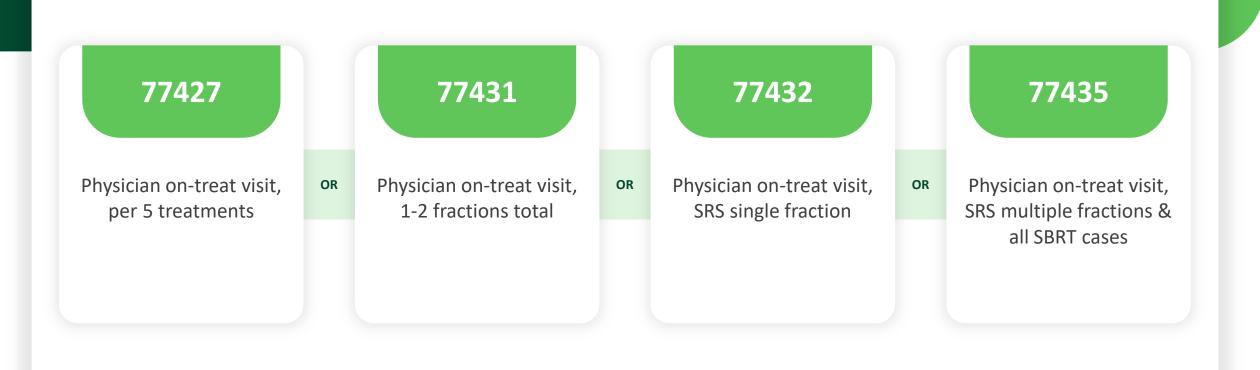
Professional IGRT Documentation



CPT codes are used with permission of the American Medical Association. ©Copyright American Medical Association 2022.



Step 8: On Treatment Visits (OTV)





Documentation Requirements



- Coordination care/treatment
- Evaluation of patient's response to treatment Continue Treatment, Stop Treatment, Hold treatment



- Current fractionation and dose delivered to date
- Dosimetry
- Lab Tests
- Patient Treatment set-up
- X-rays (portal images since last visit)



Orders made for additional services



Step 9: Physics Checks

77336

Weekly physics check



Continuing Medical Physics (77336)









Technical only service

Reported once per five fractions (fraction blocks are determined by the calendar dates of service) Reported once at the end of treatment if 3 to 4 additional fractions are delivered

Do not report after the final fraction date of service



Documentation Requirements



Medical necessity

The tasks provided by the physicist are essential in ensuring that the physician's prescription is being followed accurately during the course of radiation therapy.



Required items

- Current fractionation and dose delivered to date
- Assessment of treatment parameters
- Comparison of treatment delivered to treatment planned



This is a QA time sensitive overview of the patient's treatment and important to the overall radiation treatment (no do-overs!)



Step 10: Special Codes

77331 77370 77470 Special Special physics Special treatment dosimetry consult procedure



Special Dosimetry





Must be billed during treatment delivery



Physician order listing the specific item(s) being measured



Report prepared by dosimetry outlining the requested information



Review and signature of both the physicist and physician



Special Medical Radiation Physics Consultation (77370)









A specific procedure carried out by the medical physicist at the request of the Radiation Oncologist in a written order

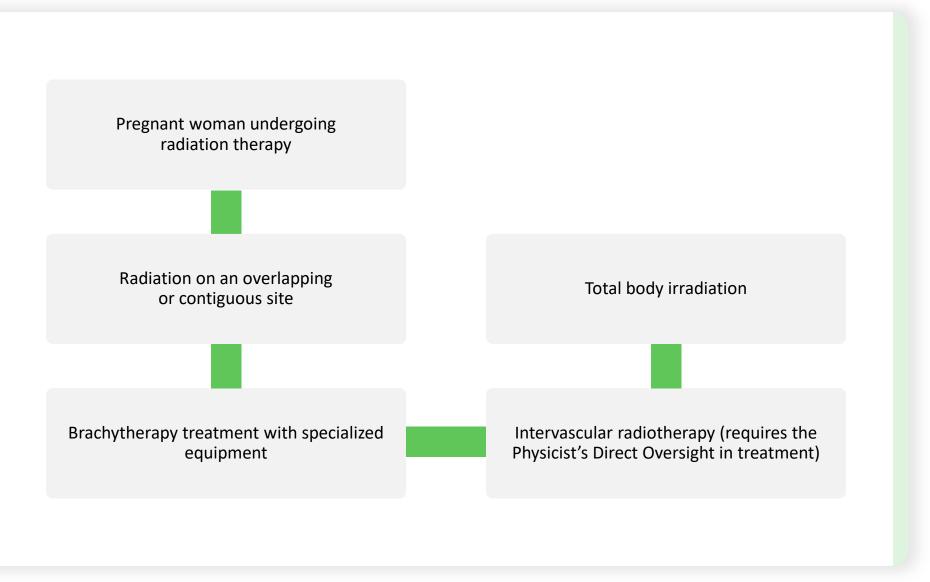
Physicist analyzes a specific problem and renders his/her expertise in a written report (cannot be a canned report)

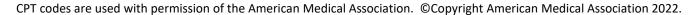
Physicist sends
report to Radiation
Oncologist, and both
must sign the
document

Technical only, billed one time per course of treatment



Examples of Treatments Using 77370







Special Treatment Procedure (77470)

Historically, the Single Most Overused Code in Radiation Treatment



The special treatment procedure CPT code (77470) represents additional work and effort required by the physician and/or staff and the justification requires support via the medical record.



Documentation of the use of a specific treatment technique or, for example, concurrent chemotherapy would not alone support the necessity for the special treatment procedure, i.e. no check boxes.



Additional information providing the rationale for what specifically requires extra time and effort when utilizing a specific treatment technique or concurrent chemotherapy would need to be included in the documentation.



Special Treatment Procedure (77470)



A separate note labeled "Special Treatment Procedure (77470)" should be documented



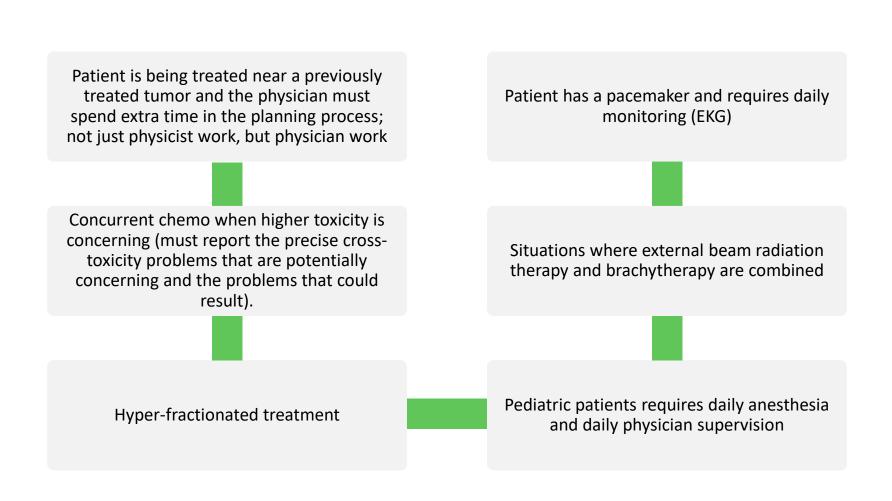
A specific section within the Clinical Treatment Plan document or a separate document is required



A template with check boxes does not constitute adequate documentation



Special Treatment Procedure Examples (77470)



CPT codes are used with permission of the American Medical Association. ©Copyright American Medical Association 2022.



Concurrent Chemo (77470)



The toxicity, if evident or not, should be mentioned in the weekly OTV notes



Concurrent chemotherapy, not 30 days before or 30 days after, but concurrent cytotoxic agents with the radiation treatments could meet the requirements



Herceptin® and hormonal therapy do not typically add additional work effort and are therefore not considered sufficient to qualify for reimbursement under this code



Concurrent chemo is not an "automatic" reason to bill this code



Step 11: Boost Plans (IMRT), must have written physician order



IMRT Boost Plan

77338

77300 x #



IMRT Replan (new data set)

77301 - medical necessity required

77338

77300 x #

Add 77334 if applicable for new immobilization

Add 77293 if applicable



Boost Plans (3D), must have written physician order



3D Boost Plan (new data set)

77290 • 77334 OR 77332 • 77295 • 77334xX • 77300xX • 77280 Add 77293 if applicable



3D Boost Plan (original data set, photon plan)

77307 • 77334xX • 77280



3D Boost Plan (original data set, electron plan)

77321 • 77334xX • 77280



Clinical Setup

77334xX OR 77332xX • 77300xX



Step 12: End of Treatment



Physician EOT Summary



Questions & Answers



Leah M. Harlin, CPCDirector of Coding Services

leah.harlin@RadiationBusiness.com



Regina Hargrove, MBA, RT(R)(T)
Revenue Cycle Consultant
regina@radiationbusiness.com

