Coding Differences by Modality & Tumor Location

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Objectives

- Educate attendees on the differences for varying treatment modalities
- Discuss how the treatment area can dictate the specific CPT® codes available for selection
- Illustrate coding patterns by modality by presenting example cases
- Compare the coding differences from 2013 and 2014 based on final rule updates
Our Policy

Consistent with Medicare Guidelines

- Local Coverage Determinations
- Medicare Manuals
- CCI/OCE Edits

CPT® Definitions and Advice for AMA

Published OIG Compliance Standards

Professional Society Publications

In Absence of Published Guidelines

- Revenue Cycle Inc. experience and observations nationally
Modality Based Process

Orders & Medical Necessity

Preparation

Dosimetry Planning

Isodose

3D

IMRT

SRS/SBRT

Set Up Simulation & Imaging

Clinical Treatment Planning

Treatment

Verification Simulation & Treatment

Verification Simulation & Treatment

IGRT & Treatment

Treatment

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Isodose Planning

Isodose Plan
- 77305-77321

Beam Modifiers
- 77332-77334

Calculations
- 77300

- Performed on Treatment Planning System
- Used when 3D, IMRT or Stereotactic requirements are not met
- Documentation of isodose plan is required in addition to treatment devices and calculations
### Isodose Plans

<table>
<thead>
<tr>
<th>Isodose Planning Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>77305</td>
<td>Teletherapy, isodose plan (whether hand or computer calculated); simple (1 or 2 parallel opposed unmodified ports directed to a single area of interest)</td>
</tr>
<tr>
<td>77310</td>
<td>Intermediate (3 or more treatment ports directed to a single area of interest)</td>
</tr>
<tr>
<td>77315</td>
<td>Complex (mantle or inverted Y, tangential ports, the use of wedges, compensators, complex blocking, rotational beam, or special beam considerations)</td>
</tr>
<tr>
<td>77321</td>
<td>Special teletherapy port plan, particles, hemibody, total body i.e., protons, neutrons and electrons</td>
</tr>
</tbody>
</table>
Clinical Example – Isodose Planning

- Whole brain with Aquaplast mask
- ROI contoured: eyes
- 6MeV
- Custom MLC – mirrored fields

What is the appropriate coding?

Additional codes may apply depending on practice patterns, documentation and patient condition
Clinical Treatment Planning 77263

Set Up Simulation 77290, 77334, 77014TC*

Dosimetry 77315, 77300x2, 77334x1

Physics 77336

Tx Delivery 77413

Verification Simulation 77280

Tx Management 77427

*77014TC: Freestanding: Included in simulation code Hospital Outpatient: 77014 packaged
Set-Up Simulation

77280  *Simple* simulation of a single treatment area

77285  *Intermediate* simulation two separate treatment areas

77290  *Complex* simulation of three or more treatment areas, particle beam, rotation or arc therapy, complex or custom blocking, brachytherapy simulation, hyperthermia probe verification, or any use of contrast material

- When considering number of treatment areas, it has been clarified by the AMA that contiguous sites should be considered a single treatment area.
CT Guidance and Sim

• For 2014, the Practice Expense (PE) now takes into account the cost of the CT unit for MPFS
  – For freestanding facilities, CT guidance (CPT® 77014-TC) is included within the simulation
  • No longer billable at the time of initial simulation
  – For HOPPS, packaging continues
  • Continue to report for utilization; however, not separately reimbursed
Isodose Planning

- Billable per volume of interest
- Modifier may be necessary for multiples billed on the same date of service

WPS Radiation Oncology Including IMRT LCD:

The physician's documentation must be specific to the number of volumes of interest. The specific location of tumor(s) to be treated must be documented as well as the specific number of ports involved with each volume of interest treated. All isodose plans must be checked and signed by the medical radiological physicist and approved and signed by the radiation oncologist.

Up to six isodose plans may be used in a course of radiotherapy.
Modality Based Process

Orders & Medical Necessity

Preparation

Dosimetry Planning

Treatment

Clinical Treatment Planning

Set Up Simulation & Imaging

Isodose

3D

IMRT

SRS/SBRT

Verification Simulation & Treatment

Verification Simulation & Treatment

IGRT & Treatment

Treatment

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3D Radiotherapy Plan

3 Dimensional Radiotherapy Plan, Including DVH

**3D Plan**
- 77295
- 77332-77334

**Beam Modifiers**
- 77295

**Calculations**
- 77295
- 77332-77334

**Respiratory Management**
- 77293 (if applicable)

Computer Aided Process that includes:
- Delineation of volumes
- Placement of isocenter & beams
- Development of isodose plan & DVH

For 2014, this code was renamed and moved into a different section of the CPT® Manual, therefore, included with planning codes.
Clinical Example – 3D Plan

- Right / Left lateral larynx with an Aquaplast mask
- ROI contoured: tumor volume, spinal cord, thyroid gland
- 6MeV
- Mirrored blocking and wedges
Clinical Treatment Planning 77263 → Set Up Simulation 77290, 77334, 77014TC* → Dosimetry 77295, 77300x2, 77334x1

Physics 77336 ← Tx Delivery 77413 ← Verification Simulation 77280

Tx Management 77427
Clinical Example – 3D Plan

- Lung immobilized with a wingboard
- Contrast utilized for the simulation
- 4D CT and motion management
- 3 field oblique with custom blocking and wedges
- ROI contoured: PTV, normal lung, spine, heart
- 6MeV and 10MeV
- Re-evaluation CT and plan adjustment
- 2 field oblique with custom blocking and wedges
Clinical Treatment Planning 77263
Set Up Simulation 77290, 77333*, 77014TC*
Dosimetry 77295, 77293, 77300x3, 77334x3

Physics 77336
Tx Management 77427

Tx Delivery 77413
Verification Simulation 77280

Re-CT 77014TC
Re-Plan 77295, 77300 x 2, 77334 x 2
Verification Simulation 77280

Key Differences:
Treatment Device
Respiratory Motion Management
Re-CT and Re-Plan
CPT® 77293 – NEW Code!

Respiratory motion management simulation (list separately in addition to code for primary procedure)

- Optional/Add-On Code
- “Primary procedure” is either 77295 or 77301 and will be billed on same date as one of these codes

As stated by AMA in CPT® Changes, November 2013 Issue, Page 11

“Increasingly, simulation is performed with respiratory motion management because respiratory movement is an important consideration when devising treatment plans for patients with diseases in certain locations (eg, thoracic tumors, upper abdominal tumors). In these patients, the treatment area is not a static target, but rather the treatment area moves with continuous respiration, and therefore requires the acquisition of multiple data sets showing the respiratory motion. Because multiple scans are produced and fused with motion respiratory tracking, respiratory motion management provides precise mapping of the field and portal design defining the respiratory movement of the target tissue and the possible organs at risk. This process is performed more frequently as motion management techniques are applied to conformal or intensity modulated radiation therapy (IMRT) plans. In response, code 77293 has been established for CPT 2014 to report respiratory motion management in addition to the primary procedure.”
What is required for Re-plan?

- Orders and medical necessity for new CT
- Documentation of CT acquisition
- Documentation of CT findings supporting the change in anatomy or tumor volume

Wisconsin Physicians Service LCD states:

Additional simulations may be required when they are done to verify plan parameters before starting new portals or boosts. In those uncommon circumstances where there is a substantial change in either patient anatomy or tumor conformation where a second CT dataset is required to produce an accurate, efficacious and safe “cone-down” plan, a second 77295 charge may be appropriate. When the physician deems this to be the case, the medical necessity for the second 77295 simulation must be documented.
IMRT Planning

IMRT Plan
- 77301
IMRT Device
- 77338 or 77334 (compensator)
Secondary Calculations
- 77300
Respiratory Management
- 77293 (if applicable)

Key Documentation Requirements for IMRT Planning:
- Medical necessity = why IMRT?
- Dose objectives & constraints
- Approved IMRT Plan and QA
IMRT Calculations

- Required to be performed & documented for all IMRT cases prior to the start of treatment
- Supported by secondary, independent calculation
- Must be reviewed and approved by physician

CPT® Assistant, November 2009; page 3:

After the plan is complete, in a separate process, the physicist must perform basic dose calculations on each of the modulated beams. This evaluation is reported with code 77300, *Basic radiation dosimetry calculation, central axis depth dose calculation, TDF, NSD, gap calculation, off axis factor, tissue inhomogeneity factors, calculation of non-ionizing radiation surface and depth dose, as required during course of treatment, only when prescribed by the treating physician.* These patient-specific monitor unit computations verify through a second (independent of treatment planning computer) dose-calculation method that the computer has correctly performed the treatment planning calculations.
Clinical Example – IMRT

- Prostate with Vac Lok™
- Arc delivery via 2 arcs
- ROI contoured: tumor volume, bladder, rectum, femoral heads
- Daily stereoscopic guidance using fiducial markers
IGRT

**Professional Component**
- Physician review and opinion

**Technical Component**
- Acquisition and use of image

**Hospital Outpatient**
- Bundled with treatment delivery

**Physician or Freestanding**
- Separately reimbursed
Clinical Example – IMRT

- Prostate with Vac Lok™
- 5 field technique with compensators
- ROI contoured: tumor volume, bladder, rectum, femoral heads
- Daily stereoscopic guidance using fiducial markers
Clinical Treatment Planning 77263

Set Up Simulation 77290, 77334, 77014TC*

Dosimetry 77301

IGRT 77421
Treatment Delivery 0073T

QA (beam fluence) 77334 x 5

Secondary Calculations 77300 x 5

Physics 77336

Treatment Management 77427

Key Differences:
Treatment Devices
Treatment Delivery
# Modality Based Process

## Orders & Medical Necessity

- Clinical Treatment Planning

## Preparation

- Set Up Simulation & Imaging

## Dosimetry Planning

- Isodose
- 3D
- IMRT
- SRS/SBRT

## Treatment

- Verification Simulation & Treatment
- Verification Simulation & Treatment
- IGRT & Treatment
- Treatment
Key documentation requirements for SRS & SBRT:

- Medical necessity = why?
- Intent
- Potential for cure
- Performance status
In addition, for the planning services, hospitals must report the specific CPT code that accurately describes the service provided. The planning services may include but are not limited to CPT code 77290, 77295, 77300, 77334, or 77370, listed in Table 3 below.

Table 3 – CPT Codes that are Reportable for SRS Planning Services  
Effective January 1, 2014

<table>
<thead>
<tr>
<th>CPT Code</th>
<th>Long Descriptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>77290</td>
<td>Therapeutic radiology simulation-aided field setting; complex</td>
</tr>
<tr>
<td>77295</td>
<td>Therapeutic radiology simulation-aided field setting; 3-dimensional</td>
</tr>
<tr>
<td>77300</td>
<td>Basic radiation dosimetry calculation, central axis depth dose calculation, tdf, nsd, gap calculation, off axis factor, tissue inhomogeneity factors, calculation of non-ionizing radiation surface and depth dose, as required during course of treatment, only when prescribed by the treating physician</td>
</tr>
<tr>
<td>77334</td>
<td>Treatment devices, design and construction; complex (irregular blocks, special shields, compensators, wedges, molds or casts)</td>
</tr>
<tr>
<td>77370</td>
<td>Special medical radiation physics consultation</td>
</tr>
</tbody>
</table>
Treatment Delivery

2013

- **77371** - Radiation treatment delivery, stereotactic radiosurgery (SRS), complete course of treatment of cranial lesion(s) consisting of 1 session; multi-source Cobalt 60 based
- **G0173** - Linear accelerator based stereotactic radiosurgery, complete course of therapy in one session
- **G0251** - Linear accelerator based stereotactic radiosurgery, delivery including collimator changes and custom plugging, fractionated treatment, all lesions, per session, maximum five sessions per course of treatment
- **G0339** - Image-guided robotic linear accelerator-based stereotactic radiosurgery, complete course of therapy in one session or first session of fractionated treatment
- **G0340** - Image-guided robotic linear accelerator-based stereotactic radiosurgery, delivery including collimator changes and custom plugging, fractionated treatment, all lesions, per session, second through fifth sessions, maximum five sessions per course of treatment

2014

- **77371** - Radiation treatment delivery, stereotactic radiosurgery (SRS), complete course of treatment of cranial lesion(s) consisting of 1 session; multi-source Cobalt 60 based
- **77372** - Radiation treatment delivery, stereotactic radiosurgery (SRS), complete course of treatment of cranial lesion(s) consisting of 1 session; linear accelerator based
- **77373** - Stereotactic body radiation therapy, treatment delivery, per fraction to 1 or more lesions, including image guidance, entire course not to exceed 5 fractions

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Clinical Example – SRS

- Single fraction brain metastasis
- Aquaplast mask and Accuform headrest for positioning
- ROI contoured: tumor volume, eyes, brain stem and optic nerves
- Treatment fields are RSIO, LSIO, right lateral and vertex
Clinical Treatment Planning
77263

Set Up Simulation
77290, 77334 x 2, 77014TC*

Dosimetry
77295, 77300 x 4, 77334 x 4

Physics
77336

Treatment Management
77432

Treatment Delivery
77372

Key Points:
• 77372 and 77432 include image guidance
• Timeline may affect billable codes
7. Stereotactic radiosurgery (SRS) treatment delivery (CPT codes 77371-77373) includes stereotactic guidance for placement of the radiation therapy fields for treatment delivery. CPT codes 77014 (computed tomography guidance for placement of radiation therapy fields) and 76950 (ultrasonic guidance for placement of radiation therapy fields) should not be reported additionally for guidance for placement of the radiation therapy field for SRS treatment delivery.
Clinical Example-SBRT

- 5 fraction stereotactic course to a solitary lung lesion
- Stereotactic body frame and Vac Lok™
- 4D CT and respiratory motion management
- ROI contoured tumor volume, heart, left and right lung and spinal cord
- Arc delivery via 2 arcs with daily CBCT
Clinical Treatment Planning
77263

Set Up Simulation
77290, 77334 x 2, 77014TC*

Dosimetry
77295, 77293, 77300 x 2, 77334 x 2

Physics
77336

Treatment Management
77435

Treatment Delivery
77373

Key Points:
• 77373 and 77435 include image guidance
• Same treatment code will be billed each fraction
Electronic Brachytherapy

- **0182T** High dose rate electronic brachytherapy, per fraction
  - No professional fees established
  - Do not report with other brachytherapy treatment delivery codes
  - Billable once per fraction
  - Category III CPT code
- Temporary set of tracking codes for new and emerging technologies
- For data collection purposes in the FDA approval process or to substantiate widespread usage
Clinical Example-Electronic Brachytherapy

- Electronic brachytherapy to 3 skin lesions
- Simulation completed to demarcate treatment area and select applicator size
- Treatment areas treated concurrently
Clinical Treatment Planning
77263

Set Up Simulation & Applicator
77290, 77332

Physics
77336 (1 per 5 fxs)

Treatment Delivery (per fx)
77300 x 3
0182T x 1

Key Points:
• Calculation billable per time/dose correction
• Tx Delivery billable once per fraction