Why Should We Learn Radiation Oncology Coding?

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Who Should Know Radiation Oncology Coding?

- Radiation Oncologist
- Department Administrator
- Billing Specialist/Expert
- Medical Physicist
- Radiation Dosimetrist
- Radiation Therapist

It depends who can answer the following

- IMRT, IGRT, SRS, SBRT, 3D Conformal, Isodose plan, FIF, MLC, Wedge, Mammosite, Savi … etc.
To Be a Competent Medical Physicist

- Knowledge of coding could change your career path.
- Should know every aspect of radiation oncology.
- It is fun and easy to learn coding.

What is CPT Code

- CPT (Current Procedural Terminology)
- Radiation Oncology
  - Codes from 77260-77799
  - Includes Simulation, External Beam Radiation, Brachytherapy, Proton Beam and Hyperthermia

- Professional Component (PC) – covers the work done by physician directly
- Technical Component (TC) – covers the cost of equipment, supplies and work done by support staff (physicist, dosimetrist and radiation therapist)
Most codes include two components
Some codes are purely technical
– 77336, 77370-77373, 77401-77418, G-code
Some codes are purely professional
– 77261-77263, 77427, 77431-77432, 77435
Some situations, billing is “Global” both PC and TC

Consultation
- Outpatient Consultation
  - 99241- 99245
  - Requires comprehensive history, examination and medical decision
- Inpatient Consultation
  - 99251- 99255

Clinical Treatment Planning
- This is not for computer treatment planning
- Specific for physician’s decision of radiation planning
- 77261 – Simple
- 77262 – Intermediate
- 77263 - complex
Simulation
- 77280 – Simulation simple
- 77285 – Simulation intermediate
- 77290 – Simulation complex
- 77293 – Motion management simulation
- 77295 – 3D simulation and isodose plan

Physics, Dosimetry, and Special Services
- 77300 – Basic dosimetry calculation
- 77306 – Isodose plan simple
- 77307 – Isodose plan complex
- 77321 – Special port plan
- 77331 – Special dosimetry
- 77336 – Continuing physics consultation
- 77370 – Special physics consultation

Treatment Devices
Design and Construction
- 77332 – Treatment devices simple
- 77333 – Treatment devices intermediate
- 77334 – Treatment devices complex
Treatment Delivery

- 77402: Treatment delivery > 1 MeV; simple
- 77407: Treatment delivery > 1 MeV; Intermediate
  - 2 separate tx areas, 3 or more ports
- 77412: Treatment delivery > 1 MeV; Complex
  - 3 separate tx areas, custom blocking
- 77417: Port films

Treatment Management

- 77427 – Treatment management for 5 treatments
- 77431 – For 1 or 2 fractions only
- 77470 – Special treatment procedure

IMRT

- 77301 – IMRT planning
- 77338 – IMRT MLC design and construction
- 77385 – IMRT treatment delivery (Prostate/Breast)
- 77386 – IMRT treatment delivery (All Others)
IGRT
- 77387 or 77421 – Stereoscopic X-ray guidance
- 77387 or 77014 – Computed tomography guidance (for placement of therapy fields)
- Only for 3D Conformal, IMRT, and Proton treatments

Special Situations
- 77295 and 77301 need more documentation (medical necessity)
- Once per treatment course:
  - 77295, 77301, 77261-77263, 77470, 77370
- Bundling codes
  - Example 77301
  - Do not bill on the same day as
    - 77014, 77263, 77280-77295, …
    - Typically billed alone

Example of Whole Brain Treatment
- 3 Gy x10 fractions, 6X, mask, MLC blocks, Rt/Lt Lateral fields, CT simulation
- Consultation: 99245
- Clinical treatment planning: 77263
- CT Simulation:
  - 77290 complex sim, 77334 treatment device (mask)
Whole Brain Treatment

- **Dosimetry**
  - 77307 Isodose plan complex, 77300x0 basic dosimetry MU calculation, 77334x2 treatment devices for MLC blocking
- **1st treatment**
  - 77280 verification simulation
- **Treatment delivery**
  - 77412x10: >1 MeV with custom MLC blocking

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Weekly Management – 77427 x2

Weekly Physics – 77336 x2

- Additional port film on 6th Tx - 77417
- Follow-up after completion of Tx - 99214

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Summary of Whole Brain Reimbursement (2015)

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**Total:** $997 $3628
Example of Lung Treatment

- Stage IIIB Lt Lung Treatment
- 4DCT motion study and 3D simulation
- 3 Fields (RAO, LAO with 6X and LPO with 18X), 2 Gy x20 fractions, OBI, Vacbag
- 7 Fields step and shoot IMRT boost with 6X, 2 Gy x 13 fractions, OBI
- Concurrent Chemotherapy
- Diode measurement for MU verification

Initial 3D Treatment

- Consultation: 99245
- Clinical treatment planning: 77263
- CT Simulation:
  - 77290 complex sim, 77334 treatment device (Vacbag)
- 4DCT: 77293 lung motion management

Initial 3D Treatment

- Dosimetry:
  - 77295 3D simulation with isodose plan, 77300x3 basic dosimetry MU calculation, 77334x3 treatment devices for MLC blocking
- 1st treatment:
  - 77280 verification simulation
  - 77331x2 special dosimetry for diode measurement
- Treatment delivery:
  - 77412x20: >1 MeV with custom MLC blocking
  - (77387 or 77421)x19: Stereo X-ray Guided OBI
IMRT Boost

- Dosimetry
  - 77301 IMRT planning, 77300x7 basic dosimetry MU calculation, 77338 MLC design for IMRT
- 1st boost treatment
  - 77290 verification complex simulation
- Treatment delivery
  - 77386x13: IMRT treatment delivery
  - (77387 or 77421)x12: Stereo X-ray Guided OBI

Weekly Management – 77427 x7
Weekly Physics – 77336 x7
Concurrent Chemotherapy - 77470
Additional port film weekly - 77417 x7
Follow-up after completion of Tx - 99214

Summary of Lung Treatment
Reimbursement (2015)

<p>| Code | Description                  | units | PD (|250|) | TC  |
|------|------------------------------|-------|------|-----|
| 99245| Consultation                 | 1     | ??? |     |
| 77253| Radiation therapy planning   | 1     | $166 |     |
| 77260| Simulation complex           | 2     | $215 | $430 |
| 77338| MLC design for IMRT          | 1     | $104 | $328 |
| 77300| Basic Dosimetry              | 10    | $35  | $86 |
| 77331| Special Dosimetry            | 2     | $45  | $90 |
| 77295| Treatment devices            | 4     | $54  | $86 |
| 77290| 3D simulation&amp; Isodose plan  | 1     | $223 | $262 |
| 77290| Basic Dosimetry              | 10    | $320 | $395 |
| 77290| Simulation simple             | 1     | $36  | $205 |
| 77366| IMRT treatment delivery      | 13    | $335 | $13 |</p>
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Every procedure needs order
Every code needs documentation

References

“2015 CPT Standard Edition”
“The 2015 Radiation Oncology Coding Resource”, ASTRO publication
https://www.cms.gov/apps/physician-fee-schedule
Billing Consultations

- American Medical Accounting & Consulting (AMAC), Inc.
- Churchill Consulting Inc.
- Revenue Cycle Inc.
- As many as 30 companies provide billing/collection services

Special Procedures

- Brachytherapy
  - HDR Tandem and Ring
  - HDR Mammosite/Savi

- Stereotactic Body Radio Therapy (SBRT)

Brachytherapy Codes

- 77750: Infusion or instillation of radioelement solution (Sr-89, P-32, or I-131)
- 77761-77763: LDR Intracavitary radiation source application
- 77776-77778: LDR Interstitial radiation source application
- 77785: HDR 1 channel
- 77786: HDR 2-12 channels
- 77787: HDR over 12 channels
- 77789: Surface application (Sr-90 eye applicator)
- 77790: Supervision, handling, and loading of radiation source
Brachytherapy Planning (Isodose) Codes

- 77316: Brachytherapy isodose plan; simple; 1-4 sources or HDR 1 channel
- 77317: Intermediate; 5-10 sources or HDR 2-12 channels
- 77318: Complex; over 10 sources or HDR over 12 channels

Special Procedure
HDR Tandem & Ring

- Consultation: 99245
- Clinical treatment planning: 77263

1st Fraction

- Placement of HDR applicator: 57155
- CT Simulation:
  - 77332 treatment device simple (HDR applicator)
- Complex Procedure: 77470
- Dosimetry
  - 3D Simulation/planning: 77295
  - Special Physics Consultation: 77370
- HDR Treatment
  - HDR treatment (2-12 channels): 77786
2nd Fraction

- Placement of HDR applicator: 57155
- CT Simulation:
  - Simulation Complex: 77290
- Dosimetry:
  - Brachytherapy isodose plan complex: 77317
- HDR Treatment:
  - HDR treatment (2-12 channels): 77786

Mammosite/Savi

- Consultation: 99245
- Clinical treatment planning: 77263
- CT Simulation/Dosimetry:
  - 3D simulation: 77295
  - Complex Procedure: 77470
- Special Physics Consultation: 77370

Mammosite/Savi

- Day 1: AM Treatment:
  - Simple Simulation: 77280
  - Basic Dosimetry: 77300
  - HDR Treatment: 77785 (1 channel) or 77786 (2 or more channels)
- Day 1: PM Treatment:
  - Simple Simulation: 77280
  - Basic Dosimetry: 77300
  - HDR Treatment: 77785 (1 channel) or 77786 (2 or more channels)
- Repeat AM/PM charges for day 2-5
- Weekly Physics: 77336x2
Stereotactic Radiation Treatment
- 77371: Cobalt 60 based radiosurgery (SRS); single fraction
- 77372: Linac based radiosurgery; single fraction
- 77373: Body radiation therapy per fraction; not to exceed 5 fractions
- 77432: Stereotactic cranial lesion treatment management
- 77435: Stereotactic body radiation therapy management

Stereotactic Body RadioTherapy (SBRT)
- Consultation: 99245
- Clinical treatment planning: 77263
- CT Simulation/Dosimetry
  - Simulation complex: 77290
  - Treatment Device Complex: 77334 (Bodyfix)
  - Complex Procedure: 77470
- Dosimetry
  - IMRT planning: 77301
  - Basic Dosimetry: 77300
  - MLC design for IMRT: 77338
  - Special Physics Consultation: 77370

Stereotactic Body RadioTherapy (SBRT)
- Treatment:
  - Stereotactic body radiotherapy delivery: 77373 x # of fractions (up to 5)
  - Stereo body radiotherapy management: 77435
  - Weekly physics: 77336
Frequently Asked Questions

- Can we charge 77301 again when we replan the IMRT?
- Where is the physics IMRT QA charge for IMRT?
- Should we charge special physics consultation 77370 for routine IMRT?
- Can we charge Field in Field (FiF) just like IMRT?

Questions?