

Higher-Level Radiation Oncology Treatment Events derived from Lower-Level CPT Codes

¹ PRESENTER: Michael Gurley¹,
Arieh Gelman², Rimma Balenkaya³,
Tatyana Sandler⁴

¹ OHDSI Oncology Workshop

INTRO:

CPT codes are a common structured source of patient data for radiation oncology treatment. In OHDSI a radiation oncology treatment can be comprised of 72 lower-level clinical patient entries in the PROCEDURE_OCCURRENCE table across 11 CPT codes. Through an aggregation to a higher-level event that is not record in the PROCEDURE table, several use cases can be addressed such as: more inclusive treatment representation to an oncology professional and data more amenable to analysis. For the representation of higher-level events, the level of granularity of modality and technique recommended by the American Society for Radiation Oncology (ASTRO) is the minimum data elements for radiation oncology consensus paper was assessed against what can be derived and aggregated from CPT codes.

METHODS

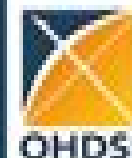
1. Curate relevant CPT codes.
2. Reconcile past efforts of modality and technique assignments to the lower-level CPT codes¹⁰.
3. Identified ASTRO's minimum relevant defined data standards for modality and technique of a radiation oncology treatment¹¹.
4. Assessed CPT codes assignments of higher-level treatment in step 2 against the modalities and techniques defined by ASTRO in step 3 to determine extent of coverage using CPT codes.

RESULTS

Overall, the results show that CPT codes support a small subset of modalities and techniques represented in ASTRO's data elements. For a larger set, there are varying levels of details. To use ASTRO's data elements for higher-level event representation, expanding the value sets of modality and technique to cover use cases with less information available about a treatment event. For example, when there is a CPT code for an 'external beam radiotherapy' without additional details, addition of a higher-level event to capture 'external beam radiotherapy' is needed.

There are challenges in deriving higher-level Radiation Oncology treatment Events from CPT codes with the level of detail recommended by ASTRO.

Radiation oncology procedure	Derivable from CPT		
	Yes	Partial	No
Modality			
External beam radiation therapy (EBRT)			
Protons	X		
Electrons			X
Photons (LINAC)		X	
Photons (isotope source)		X	
Neutrons	X		
Carbon			X
Brachytherapy			
Low dose rate	X		
High dose rate	X		
Pulse dose rate			X
Radiopharmaceuticals	X		
Electronic brachytherapy	X		
MV arrays			
Intraoperative radiation therapy			X
Superficial		X	
Orthovoltage		X	
Technique			
Passive scattering			X
Scanning beam intensity modulated proton therapy			X
Scanning beam multi-field optimization			X
Scanning beam single-field optimization			X
2-dimensional (2D)			X
Intraoperative radiation therapy	X		
1 dimensional (1D)	X		
Intensity modulated radiation therapy (IMRT)	X		
Intracranial stereotactic	X		
Interstitial permanent		X	
Interstitial temporary		X	
Intracavitary permanent		X	
Intracavitary temporary		X	
Sealed			X
Unsealed			X
Intracavitary	X		



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Coding Guidelines For Radiation Therapy

Katrin Zwirgmaier



Coding Guidelines For Radiation Therapy:

2022 Navigator® Radiation Oncology Revenue Cycle Coding Strategies LLC,2021-12-06 This industry leading reference manual is one of Revenue Cycle Coding Strategies most popular products year after year It provides comprehensive information about coding for radiation oncology services and is a must have if you work in a radiation oncology practice cancer center or hospital radiation therapy department The manual covers all phases of treatment from the initial visit to post treatment follow up and all treatment modalities including external beam IMRT radiosurgery and brachytherapy Each section of the manual discusses documentation requirements coding guidelines bundling issues and coverage restrictions as well as compliance issues such as physician supervision clinical trials standing orders and ABNs Please see the Table of Contents for a full listing of topics It also includes Frequently Asked Questions and samples of physician documentation [ICD-10-CM/PCS Coding: Theory and Practice, 2025/2026 Edition - EBK](#) Elsevier Inc,2024-08-23 Learn facility based coding by actually working with codes ICD 10 CM PCS Coding Theory and Practice provides an in depth understanding of inpatient diagnosis and procedure coding to those who are just learning to code as well as to experienced professionals who need to solidify and expand their knowledge Featuring basic coding principles clear examples and challenging exercises this text helps explain why coding is necessary for reimbursement the basics of the health record and rules guidelines and functions of ICD 10 CM PCS coding NEW Revisions to ICD 10 codes and coding guidelines ensure you have the most up to date information available 30 day access to TruCode Encoder Essentials gives you experience with using an encoder plus access to additional encoder practice exercises on the Evolve website ICD 10 CM and ICD 10 PCS Official Guidelines for Coding and Reporting provide fast easy access to instructions on proper application of codes Coverage of both common and complex procedures prepares you for inpatient procedural coding using ICD 10 PCS Numerous and varied examples and exercises within each chapter break the material into manageable segments and help reinforce important concepts Illustrations and examples of key diseases help in understanding how commonly encountered conditions relate to ICD 10 CM coding Strong coverage of medical records provides a context for coding and familiarizes you with documents you will encounter on the job Illustrated full color design emphasizes important content such as anatomy and physiology and visually reinforces key concepts Evolve website offers online access to additional practice exercises coding guidelines answer keys coding updates and more [ICD-10-CM/PCS Coding: Theory and Practice, 2023/2024 Edition - E-Book](#) Elsevier Inc,2022-08-13 Learn facility based coding by actually working with codes ICD 10 CM PCS Coding Theory and Practice provides an in depth understanding of inpatient diagnosis and procedure coding to those who are just learning to code as well as to experienced professionals who need to solidify and expand their knowledge Featuring basic coding principles clear examples and challenging exercises this text helps explain why coding is necessary for reimbursement the basics of the health record and rules guidelines and functions of ICD 10 CM PCS coding 30 day access to TruCode Encoder Essentials

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Table of Contents Coding Guidelines For Radiation Therapy

1. Understanding the eBook Coding Guidelines For Radiation Therapy
 - The Rise of Digital Reading Coding Guidelines For Radiation Therapy
 - Advantages of eBooks Over Traditional Books
2. Identifying Coding Guidelines For Radiation Therapy
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Coding Guidelines For Radiation Therapy
 - User-Friendly Interface
4. Exploring eBook Recommendations from Coding Guidelines For Radiation Therapy
 - Personalized Recommendations
 - Coding Guidelines For Radiation Therapy User Reviews and Ratings
 - Coding Guidelines For Radiation Therapy and Bestseller Lists
5. Accessing Coding Guidelines For Radiation Therapy Free and Paid eBooks
 - Coding Guidelines For Radiation Therapy Public Domain eBooks
 - Coding Guidelines For Radiation Therapy eBook Subscription Services
 - Coding Guidelines For Radiation Therapy Budget-Friendly Options

6. Navigating Coding Guidelines For Radiation Therapy eBook Formats
 - ePub, PDF, MOBI, and More
 - Coding Guidelines For Radiation Therapy Compatibility with Devices
 - Coding Guidelines For Radiation Therapy Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Coding Guidelines For Radiation Therapy
 - Highlighting and Note-Taking Coding Guidelines For Radiation Therapy
 - Interactive Elements Coding Guidelines For Radiation Therapy
8. Staying Engaged with Coding Guidelines For Radiation Therapy
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Coding Guidelines For Radiation Therapy
9. Balancing eBooks and Physical Books Coding Guidelines For Radiation Therapy
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Coding Guidelines For Radiation Therapy
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Coding Guidelines For Radiation Therapy
 - Setting Reading Goals Coding Guidelines For Radiation Therapy
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Coding Guidelines For Radiation Therapy
 - Fact-Checking eBook Content of Coding Guidelines For Radiation Therapy
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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