DICOM
Second Generation Radiotherapy
Supplement 199
RT Radiation Records
Following the introduction of four RT Radiation IODs in Supplements 175 and 176 that are used to define a radiotherapeutic “treatment plan” by providing device-specific treatment parameters, this Supplement provides the capability to record the treatments performed on the devices by introducing RT Radiation Record IODs along an RT Radiation Record Record Set. In addition, a Manual RT Radiation Record is also added in cases where the device-specific recording failed or is not available. The RT Radiation Record IODs primarily re-use the macros and modules defined for the RT Radiation IODs.
RT Radiation Record IODs for recording modality-specific treatments:
- C-Arm Photon-Electron Radiation Record IOD
- Tomotherapeutic Radiation Record IOD
- Robotic Radiation Record IOD

An RT Radiation Record for manual recording:
- Manual Radiation Record IOD

A Record Set IOD for recording the partial/complete delivery of a Treatment Fraction:
- RT Radiation Record Set IOD
2nd Gen Overview

Supplement 175
RT Radiation Set

Supplement 176
Treatment Modalities
C-Arm Photon-Electron RT Radiation Record IOD
Tomotherapeutic RT Radiation Record IOD
Robotic RT Radiation Record IOD
Manual RT Radiation Record IOD

Supplement 199
Treatment Records
RT Radiation Record Set
C-Arm Photon-Electron RT Radiation Record IOD
Tomotherapeutic RT Radiation Record IOD
Robotic RT Radiation Record IOD
Manual RT Radiation Record IOD

Generic Definitions for all RT Radiation IODs
For details regarding the underlying RT Radiation concepts and description of the treatment modalities please review the presentations for Supplement 175 and 176.
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