Astroid Patient Data Model

The following page describes the hierarchy of data used to manage patient data records within the Astroid planning environment.

Hierarchy

- Patient
    - Course [0,1,...,N]
        - Course data stuff here 🔧 Fix Me!
        - Intent [0,1,...,N]
            - Intent data stuff here 🔧 Fix Me!
            - Directive [0,1,...,N]
                - Clinical Goals
                    - Clinical Goals data stuff here 🔧 Fix Me!
                - Phase
                    - Prescription
                        - Prescription data stuff here 🔧 Fix Me!
    - Conceptual Structure List [0,1,...,N]
    - Conceptual Point List [0,1,...,N]
    - Snapshot [0,1,...,N]
        - Imaging Data
        - Structure Data [0,1,...,N]
            - Active Variant
            - Variant List [0,1,...,N]
        - Request [0,1,...,N]
            - Plans [0,1,...,N]
                - Image Calibration
                - Points [0,1,...,N]
                - Structures [0,1,...,N]
                - Calculation Grid
                - Treatment Room
                - Beams [1,...,N]
                    - Snout
                    - Devices & Spot Options
                    - DRRs
                - Fraction Groups [1,...,N]
                    - Target
                    - Constraint [0,1,...,N]
                    - Target Dose Constraints [1,...,N]

- Target
- Constraint [0,1,...,N]
- Beamset [1,...,N]
  - Constraint [0,1,...,N]
  - Beam [1,...,N]
- Constraints [0,1,...,N]
- Objectives [0,1,...,N]
- Dose Results

Descriptions

- Patient
  - A person receiving medical treatment.
- Course:
  - A prescribed regimen to be followed for a specific period of time.
- Intent:
  - The purpose of the treatment.
- Directive:
  - The prescription for the course of treatment.
- Snapshot:
  - Overview of targets and organs at risk.
- Request:
  - The date of implementation of the number of fractions. Can be all fractions or a specific number of fractions.
- Plan:
  - All aspects of the patient planning take place here. Such as patient geometry, calcualtion grid, beams and optimization.

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