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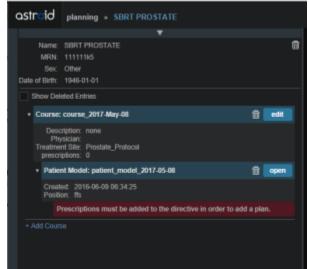
Overview

The Astroid patient data model uses a hierarchy of items to model the real world workflow patterns of the radiotherapy treatment process. Please refer to the **Heirarchy (Data Model) page** if you are not familiar with these concepts.

During patient creation (i.e. Importing) a patient record is created containing a *Course* and a *Patient Model*. During Import the required data for the Course and Patient Model are entered, however, the Course remains incomplete. The Course will still require physician directive information including the breakdown of the treatment *Prescriptions* and (optionally) the specification of *Clinical Goals*. Before creating a *Plan* this information must be entered. Once the Prescription is complete, plans can be created. The following sections provide a walk through for completing the *Course* information.

Completing the Course Prescription

- 1. From the *Patient list*, select a patient to be opened by clicking the patient row
- 2. The patient will open to the *patient overview* task and a message will appear telling the user to complete the Prescription information



- 3. The Prescription information is part of the Course, which can be edited by clicking on the blue *edit* button beside the Course label in the patient overview
- 4. The *Course* Prescription information is **mandatory** to fill out in order to proceed with planning and at a minimum one Prescription must be created (Clinical Goals are optional)
- 5. The *Course* contains some basic information as well as two blocks of data: *Clinical Goals* and *Prescriptions*
- 6. *Clinical Goals* are used fill in the "goals" (objectives) the physician would like to see achieved by the plan

1. To add a goal, simply select click *Add Structure* and select a desired structure (the choices in the structure drop down will be set by the treatment site template) to which goals should be

added

2. The user can create goals for tumor volumes as well as Organs at Risk (OAR) and can specify minimum dose, maximum dose, mean dose, and volume based (DVH) goal types

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3. The *Clinical Goals* will be used for reporting purposes to describe the physician's intent for the treatment; these do not affect the calculation or plan directly

 General 						
Description						
Goals						
PTV_5040						×
min:	50.4	Gy(RBE)	×			
max:	66	Gy(RBE)	×			
min mean:	Add					
max mean:	Add					
min DVH:	Add					
max DVH:	Add					
Rectum						×
max:	Add					
max mean:	33	Gy(RBE)	×			
max DVH:	Add					
Add Structure	Ŧ	Add Poin	t	•		
					ОК	Cancel

- 7. The second major part of the *Course* are the *Prescriptions*
 - 1. This is where the user will fill in the number of fractions and the prescription dose that specified by the physician
 - 2. Note that a phase **must** be created in order to start the planning process
- 8. Click New Phase under Phases to create a new empty phase
 - 1. The *Phase* label and description are free text fields that the user can enter to help identify a particular phase as needed
 - 2. A color may be selected for the Phase to aid in identification as well
 - 3. The number of fractions to be treated should entered and at least one *Prescription* value must be added (the choices available in the structure drop down will be only the targets from the selected treatment site template)

Name:		ROSTATE				
MRN:	111111	6				
Sec.	Other					
Date of Birth:	1946-01					
Show Dele	ated Entri	les				
• Course:	course_	2017-May-08				edit
	Name:	course_2017-M	lay-08			
	ription					
Desc	npeon:					
Phy	vsician:		-			
		Prostate_Protoc				
Clinic	al Goal	5				
PT	V_7920					×
	min:	79.2	Gy(RBE)	×		
	max	83.2	Gy(RBE)	×		
min		Add Statement				
mir						
max	K DVH:					
Re	ctum					×
	maxc					
max	mean:	33	Gy(RBE)	×		
max	K DVH:					
Add	1 Structur	re •				
Presc	riptions					
	Labelt	Original				
Desc	ription:					
	Color:					
Erz	actions:	28				
	ription:	79.2 Gy(RB		/ 7920	××	
- Test					· · ·	
		Add			_	
					Add	Cancel
					Done	Cancel
	e					

- 4. Once all Phase information has been entered, click the blue *Done* button to complete the Phase
- 9. Additional phases may be added at this point if needed (for example, for a treatment needing a base treatment and a boost)
- 10. The *Directive* should now be complete
 - 1. Click on the patient's name in the top row (breadcrumbs) to return back to the *Patient Overview*

Creating a Request

- 1. The *Snapshot* generally does not require editing at this time (see *Snapshots* for more information) so the user can now proceed on to creating a *Request*
- 2. To add a *Request* click on the blue *Add Request* link underneath the *Snapshot*
 - 1. This will create a default Request that treats all Fractions for all Phases in the Directive
 - 2. If this requires modification, then click on the blue open button to open the Request then

	clic	ĸ Edit	to	start	editing
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Na	ame:	Prostate_Bed TG2	44	
N	IRN:	002442		
	Sex:	Male		
Date of E	3irth:	1955-09-11		
Arch	ved:	No Archive		
• cours	e_20	17Jan17		Show Info
				edit
Add In	tent			
🔻 int	ent_c	urative_2017Jan17		Show Info
				open
Add	Dire	ctive		
•	direc	tive_2017Jan17		Show Info
				open
	• sn	apshot_2017Jan17		Show Info
				open
	Add	1 Request		
	•	request 1		Show Info
				open
		Add Plan		

3. Phases may be added, removed, or fraction counts modified using the provided controls (the user can choose whether all fractions [All] are going to be implemented in this phase or if just a certain number [Count]).

50.4 Gy(RBE) to	PTV_5040 in 28 fractions	×
Fractions:	All	
	Implement all fractions in this phase.	
	Count	
	Implement the following number of fractions.	
Add Phase	v	

- 4. When editing is complete, click the blue *Ok* button at the bottom of the column to save your changes
- 5. Now click on the patient name to go back to the *Patient Overview*

