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Fix Me!

Courses, Intents, Directives, Requests, and Plans

Overview

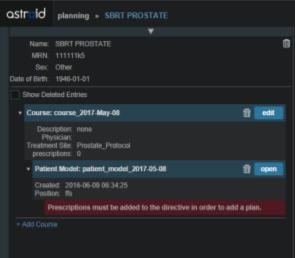
The Astroid patient data model uses a hierarchy of items to model the real world workflow patterns of the

radiotherapy treatment process. Please refer to the **Data Model page** not familiar with these concepts.

During patient creation (i.e. Importing) a patient record is created containing a *Course*, *Intent*, *Directive*, and *Snapshot*. During Import the required data for the Course, Intent, and Snapshot are entered, however, the Directive remains incomplete. The Directive contains the physician's prescription information including the breakdown of the treatment *Phases* and the specification of *Clinical Goals*. Before creating a *Request* or a *Plan* this information must be entered. Once the Directive is complete, a new request and plan can be created. The following sections provide a walk through for completing the *Directive* and creating *Requests* and *Plans*.

Completing the Directive

- 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 Directive Phase information

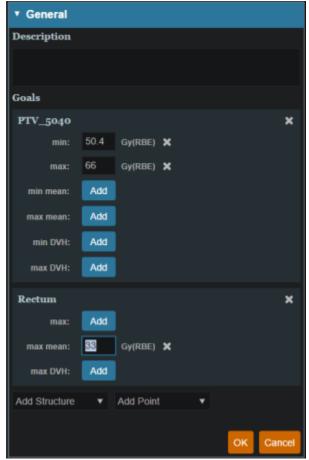


3. Before completing the *Directive* you may edit the *Course* or *Intent* by clicking on the appropriate blue *edit* or *open* button beside the desired item (this information is specified by the user while importing the patient, so this is typically unnecessary)

1/6

Name: Prostate_Bed TG244	
MRN: 002442	
Sex: Male	
Date of Birth: 1955-09-11	
Archived: No Archive	
course_2017Jan17 Sho	w Info
Name: course_2017Jan17	
Description:	
Physician: New Physicia OK Cancel	
Add Intent	
▼ intent_curative_2017Jan17 Sho	w Info
	open
Add Directive	
▼ directive_2017Jan17 Sho	w Info
	open
 snapshot_2017Jan17 Sho 	w Info
	open
Phases must be added to the directive in order to a request.	add

- 4. Now open the *Directive* by clicking on the blue *Open* button
- 5. The *Directive* information is **mandatory** to fill out in order to proceed with planning and at a minimum a Phase must be created with an appropriate *Prescription* for the case at hand
- 6. The *Directive* information is separated into two blocks of data: *Goals* and *Phases*
- 7. *Goals* are used fill in the "goals" (objectives) the physician would like to see achieved by the plan
 - 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
 - 3. The *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



- 8. The second part of the *Directive* is the *Phases*
 - 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
- 9. 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)

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	M	RN: 11	1111	6								
		ier: Ot	her									
Date	of Bi	itti: 19	46-01									
	Show Deleted Entries											
											_	_
	Cou	rse: cou	urse_	2017-May-	08						60	
		Na	me:	course_20	H7-N	lav-08						
						nay so						
		Descript	ion:									
		Physic	lanc									
							۲					
	Tre	atment S	site:	Prostate_P	rotoc							
	С	linical (Goal	s								
		PTV_7	920								>	5
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			1870	83.2		Gy(RE	101					
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				Add Staten Add Staten								
				Add Staten								
		max D/										
		Rectur										
											,	•
		max me	san:	33		Gy(RE	3E)	×				
		max D/	VH:									
		Add St	ructu	re	-							
	D.	escript	dame									
				The last								
		La	beit	Original								
		Descript	ion:									
			ilor:			••						
		Fractio	ons:	28								
		Prescript	ion:	79.2 G	MRE	E) to	PTV	/ 7920		×		
				Add		•						
										Add	Cancel	
										Done	Cano	81
* /												

- 4. Once all Phase information has been entered, click the blue *Done* button to complete the Phase
- 10. Additional phases may be added at this point if needed (for example, for a treatment needing a base treatment and a boost)
- 11. 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

	Na	me:	Prostate_Bed TG244				
	м	RN	002442				
		Sex:	Male				
D	ate of B	lirth:	1955-09-11				
	Archi	ved	No Archive				
•	cours	ourse_2017Jan17					
			edit				
	Add Int	ent					
	▼ inte	nt_	curative_2017Jan17	Show Info			
				open			
	Add	Dire	ective				
	• •	lired	ctive_2017Jan17	Show Info			
				open			
		' si	napshot_2017Jan17	Show Info			
				open			
		Ad	d 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 I	PTV_5040 in 28 fractions	×
Fractions: 💿	All	
	Implement all fractions in this phase.	
	Count	
	Implement the following number of fractions.	
Add Phase		

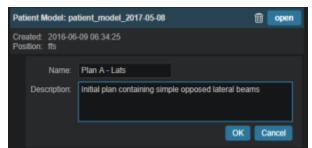
- 4. When editing is complete, click the blue *Ok* button at the bottom of the column to save your changes
- 5. Now click on the patient name to go back to the *Patient Overview*

Creating a Plan

- 1. The point has now been reached where a *Plan* can be created
- 2. Click on the blue Add Plan link under the Request to create a new plan

Patient Model: patient_model_2017-05-08	🗊 open
Created: 2016-06-09 06:34:25 Position: ffs	
+ Add Plan	

1. In the box that opens the user should name the plan and add any description they may want



- 2. Click on the blue OK button when finished and the Plan has been created
- 3. Open the plan and begin the planning process by clicking on the blue *Open* button next to the new plan

Ad	d F	Request		
•	re	quest 1		Show Info
				open
	Ad	d Plan		
	۲	original		Show Info
		Clone		open

1. Note that users are free to have as many plans as desired within a single *Request* however, each plan should be designed to fulfill the entire *Request* as only a single *Plan* per *Request* may be *Published* (approved) in the system

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