

Creating a Plan

Once a Planning patient has been added, a new request and plan can be created.

1. From the *Patient list*, select the patient to open.
2. Open the patient by double clicking the patient row or selecting the *Open* button in the *preview UI*.
The *patient overview* will open up

The screenshot shows the 'astroid' planning interface for a patient named 'SBRT PROSTATE'. The patient's MRN is 111111k5, Sex is Other, and Date of Birth is 1946-01-01. There is a checkbox for 'Show Deleted Entries'. Below this, there are two expandable sections: 'Course: course_2017-May-08' and 'Patient Model: patient_model_2017-05-08'. The 'Course' section shows 'Description: none', 'Physician: none', 'Treatment Site: Prostate_Protocol', and 'prescriptions: 0'. The 'Patient Model' section shows 'Created: 2016-05-09 06:34:25' and 'Position: fls'. At the bottom, there is a red error message: 'Prescriptions must be added to the directive in order to add a plan.' and a '+ Add Course' button.

3. The user may choose (not mandatory) to change the name of a course or enter course info such as the doctors name (chosen from the dropdown) or a description of the course. This can be done by clicking on the blue *Edit* button under *Course*

The screenshot shows the 'course_2017Jan17' edit form. The patient's Name is 'Prostate_Bed TG244', MRN is 002442, Sex is Male, Date of Birth is 1955-09-11, and Archived is 'No Archive'. The 'course_2017Jan17' section is expanded, showing 'Name: course_2017Jan17', 'Description: ' (empty text area), and 'Physician: ' (dropdown menu). There is a 'New Physician' button and 'OK' and 'Cancel' buttons. Below this, there is an 'Add Intent' section with 'intent_curative_2017Jan17' and an 'Add Directive' section with 'directive_2017Jan17'. Both have 'Show Info' and 'open' buttons. At the bottom, there is a 'snapshot_2017Jan17' section with a 'Show Info' and 'open' button. A red error message at the bottom states: 'Phases must be added to the directive in order to add a request.'

4. The *Intent* information is retrieved from the information the user filled in while importing the patient; so nothing is needed done.
5. Open the *Directive* by clicking on the blue *Open* button
6. The *Directive* information is **mandatory** to fill out in order to proceed with planning.
7. The *Goals* is where the user will fill out what “goals” they would like to see achieved by the plan. The choices in the drop down will be set by the treatment site template that is chosen during the import process. The user can select doses for tumor volumes as well as Organs at Risk (OAR)
 1. These doses will be used for reporting what is the physicians intent with this plan. They doses do not effect the calculation.

The screenshot shows a software interface with a 'General' tab. It contains the following sections:

- Description:** A text input field.
- Goals:** A section titled 'PTV_5040' containing:
 - min: 50.4 Gy(RBE) [X]
 - max: 66 Gy(RBE) [X]
 - min mean: [Add]
 - max mean: [Add]
 - min DVH: [Add]
 - max DVH: [Add]
- Rectum:** A section containing:
 - max: [Add]
 - max mean: 38 Gy(RBE) [X]
 - max DVH: [Add]
- At the bottom, there are two dropdown menus: 'Add Structure' and 'Add Point'.
- At the very bottom right are 'OK' and 'Cancel' buttons.

8. The next part of the *Directive* to be filled out is the *Phases*
9. Choose *New Phase* under *Phases*
10. The *Phase* label is free text that the user will fill in.
11. This is where the user will fill in the number of fractions and the prescription that is desired.

Name: SBRT PROSTATE
 MRN: 11111115
 Sex: Other
 Date of Birth: 1946-01-01

☐ Show Deleted Entries

Course: course_2017-May-08 edit

Name: course_2017-May-08
 Description:
 Physician: New Physician
 Treatment Site: Prostate_Protocol

Clinical Goals

PTV_7920 ×
 min: 79.2 Gy(RBE) ×
 max: 83.2 Gy(RBE) ×
 min mean: Add Statement
 max mean: Add Statement
 min DVH: Add Statement
 max DVH: Add Statement

Rectum ×
 max: Add Statement
 max mean: 33 Gy(RBE) ×
 max DVH: Add Statement
 Add Structure

Prescriptions

New Prescription

Label: Original
 Description:
 Color: Orange Yellow Green Blue Purple Red
 Fractions: 28
 Prescription: 79.2 Gy(RBE) to PTV_7920 ×
 Add

Add Cancel
Done Cancel

+ Add Course

12. Multiple phases may be created at this point. An example would be a base plan and a boost.
13. The user should click the orange *Done* button when finished
14. At this point the user will need to click on the patient's name in the top row. This will bring the user back to the *patient overview*.
15. The user can then go to the *Snapshot* (see [Snapshots](#)) or add a *request*
16. To add a *Request* click on the blue *Add Request* underneath *Snapshot*. Then click on the blue *edit* button.

Name: Prostate_Bed TG244
 MRN: 002442
 Sex: Male
 Date of Birth: 1955-09-11
 Archived: No Archive

- ▼ course_2017Jan17 Show Info
 - edit
 - Add Intent
 - ▼ intent_curative_2017Jan17 Show Info
 - open
 - Add Directive
 - ▼ directive_2017Jan17 Show Info
 - open
 - ▼ snapshot_2017Jan17 Show Info
 - open
 - Add Request
 - ▼ request 1 Show Info
 - open
 - Add Plan

1. A phase *must* be chosen at this point. To do so click on the blue *Edit*

There are no phases for this request

Edit

2. Choose the phase from the drop down.

There are no phases for this request

Add Phase ▼

3. The next step is to 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 ▼

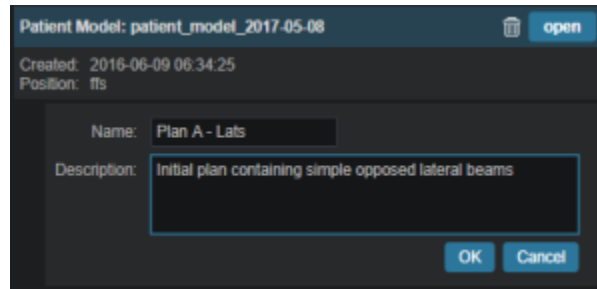
4. Click the orange *Done* button in the bottom right of the column. Then click on the patient name to go back to the *patient overview*
17. At this point the user should click on the blue *Add Plan* under the *Request*.

▼ Patient Model: patient_model_2017-05-08 open

Created: 2016-06-09 06:34:25
Position: fls

+ Add Plan

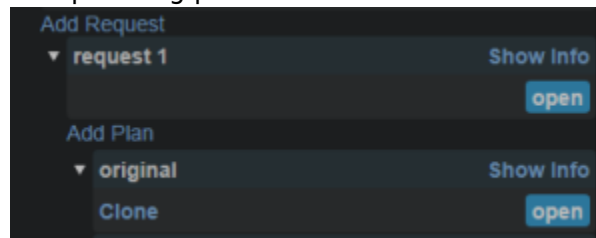
1. In the box that opens the user should name the plan and add any description they may want.



2. Click on the orange OK button when finished.

18. This will take the user back to the *patient overview*.

19. To open the plan and begin the planning process the user should click on the blue *Open* button.



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Last update: 2021/07/29 18:24

