

# Defining Constraints



from here on down

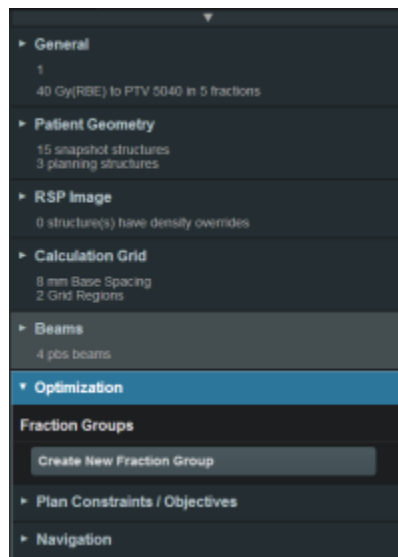
Constraints can be set

## About Fraction Groups

In the Fraction Group the user will put in the total target(s) dose, i.e. simultaneous integrated boost (SIB), as well as the total number of fractions. The user will then further break the into Beam Set groups where beams are assigned to a group and a specific number of fractions.

## Working with Fraction Groups

1. Select the Create New Fraction Group button



2. In the newly opened block the planner will:
  - choose the color the fraction will be denoted in
  - type in any descriptor that may be needed
  - enter the total number of fractions to be treated
  - enter the group constraints
    - group constraints encompass the whole fraction group

Create Fraction Group

Color: [Color Selection Bar]

Description: any descriptor the user feels needed

Fraction Count: 5

Group Constraints: PTV

Min: 40 Gy(RBE)

Max: 45 Gy(RBE)

Min Mean: add statement

Max Mean: add statement

Add Structure

Beam Set Groups

New Beam Set Group

- there can be more than one target entered at this stage

### 3. Select New Beam Set Group

- select the target and create a beam set that will be associated to that target
- there may be multiple beam sets associated to a target
- the constraints chosen at this point will just be associated to the particular beam set

Beam Set Groups

Target: s1 - Prostate + 0mm (in 3D)

Target: s1 - Prostate + 0mm (in 3D)

Beam Sets: beam set

d1 - G270 C0, 12 cm, no shifter

d2 - G90 C0, 12 cm, no shifter

d3 - G225 C0, 12 cm, no shifter

d4 - G135 C0, 12 cm, no shifter

d5 - G180 C0, 12 cm, no shifter

add beam

add beam set

Constraints: s1 - Prostate + 0mm (in 3D)

Min: 40 Gy(RBE)

Max: 45 Gy(RBE)

Min Mean: add statement

Max Mean: add statement

Add Structure

Done Cancel

New Beam Set Group

- the user may also have multiple beam set groups associated with multiple targets within a plan

**Beam Set Groups**

Target: PTV

Constraints:

structure	type	dose(Gy(RBE))
PTV	min	36
PTV	max	44

Beam Sets:

beam set

d1 - G270 C0, 12 cm, no shifter;

d2 - G90 C0, 12 cm, no shifter;

Edit Delete

Target: s1 - Prostate + 0mm (in 3D)

Target: s1 - Prostate + 0mm (in 3D)

Beam Sets:

beam set

d3 - G225 C0, 12 cm, no shifter; X

d4 - G135 C0, 12 cm, no shifter; X

d5 - G180 C0, 12 cm, no shifter; X

add beam

add beam set

Constraints: s1 - Prostate + 0mm (in 3D) X

Min: 40 Gy(RBE) X

Max: 46 Gy(RBE) X

Min Mean: add statement

Max Mean: add statement

Add Structure

Done Cancel

- the user needs to set the constraints for each beam set group. These constraints only apply to the associated beam set group

From:  
<https://apps.dotdecimal.com/> - **decimal App Documentation**

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