Defining the Dose Grid

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The calculation grid resolution/size used affects the accuracy of the dose distribution. In Astroid you have the ablity to vary the grid size dependent on the structure. The calculation grid base resolution is set to the patiient. By using a larger grid in areas that are not critical to the calculation you have the ability to speed up the calculation. The default grid size is 8mm set to the patient. Whatever grid size you set to the patient you may scale down by in powers of 2 in the areas of critical structures and regions of interest.

Importing the DICOM directory to thinknode is accomplished using a python script as described below.

Importing using Python

Note: This guide requires the user to be familiar with python and the existing .decimal python libraries.

1. From the .decimal GitHub repository open and edit the post_dicom_patient_rks.py python file.
2. Ensure the thinknode.cfg file is set appropriately for your user, account, and realm.
3. Edit the following line to point to the directory in which the DICOM patient files are located (note: all DICOM files in this directory will be uploaded):

```
# Post patient data into ISS
obj_list_id = dicom.make_dicom_object_from_dir(iam, 'F:/Datasets/demo-patient/prostate')
```

4. Run the script and allow the patient to upload to thinknode ISS. After the DICOM patient is uploaded to ISS, an RKS entry will be created for the patient for the Planning App to recognize it as a newly imported patient.

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

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Last update: **2021/07/29 18:25**