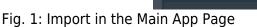
DICOM Patient Import

In order to begin planning in the .decimal ElectronRT app you must first have patients set up. The easiest way to do so is to import existing DICOM files.

Importing a New Patient

If you have a set of Ct Images and structures you can import them directly into a new patient through the "Import Patients" menu.



Selecting the "Import New Patient" option will open the Importing UI.

Import DICOM Files

ielect file(s) for import

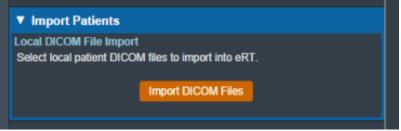
Use recursive folder search

Here you may either browse your computer or copy the path to the folder that contains the CT images
and structures you wish to import.

A No valid DICOM files are present in the selected folde

Then the import will process:

Fig. 2: Import Directory Input



	Importing DICOM Files. Please wait	
<u> ۲</u>		
	Step: Writing Course data to disk (Step 2 of 2)	

Fig. 4: Import Loading screen

If there are no Errors while importing you will be taken to a confirmation page for your import.

Patient: :	ECT Nose		
MRN:	Nose		
- POL_3 - POL_4 - Lt Parotic			

Fig. 5: Import Finalized

If there are errors please refer to the Common Errors section below.

Common Errors

Missing/Undefined External Structure

If the imported DICOM Structure Set does not have a structure flagged as *RT ROI Interpreted Type* (3006,00A4) EXTERNAL you will be directed to specify the external patient structure before the import resumes. The patient external structure must be set to the defining boundary of the patient's outer surface, and not a rind skin structure.

Note: You will be warned if the selected external structure is not the structure with the largest volume. This is to prevent incorrect structure selection (e.g.: when a 'External' and 'Skin' structure both exist, and the 'Skin' structure is a rind. If the user selects the 'Skin' structure the warning will state the 'External' structure has a larger volume, since that's the correct representation of the patient structure.

Please refer to and add	ess the following error(s):
External structure no	t found in the structure set. Please select a structure to use as the
external structure.	trouise in the subclure set, prease service a subclure to use as the
	v

Fig. 6: Missing External Error

The drop down menu will have a list of the structures in the imported set. You will be able to select one as the external for this course then confirm your choice by pressing "Set External"

Please refer to and addre	ss the following error(s):	
external structure not external structure.	found in the structure set. Please select a structure to use as the	•
External	Set External	

Fig. 7: Set External Dialog

Importing an Existing Patient

If the files you have selected to import coincide with the MRN of a patient that already exists in the app you will receive this error.



Fig. 9: Existing Patient Error

You have three options provided to resolve the error:

- Import to a New Course
- Re-Import Structures
- Do Nothing

Import to a New Course

Importing to a new course will simply complete the import but instead of affecting existing courses or plans for the patient the app will create a new course for this patient using the new import.

lease refer to and address th	e following error(s):	
Patient MRN already exists	in database.	
Series UID found in existing	course. Please select an option for impo	ort.
Import To A New Course	•	
Imported CT images and st	ructure set will be added to a new course	. OK

Fig. 10: Importing as a New Course

Re-import Structures

Re-Importing structures can be used if your goal is to update or add structures to your existing patient.

Please refer to and address the following error(s):		
Patient MRN already exists in database. Series UID found in existing course. Please select an option fo Reimport Structures	r Import.	
Errors Found During Import		
Please refer to and address the following error(s):		

Fig. 11: Re-Import Structures

After selecting this option, you will be presented with a list of the structures in the import.

For each you may select one of three options:

- Do not Re-import: skips this structure for the re import.
- **Replace existing geometry**: replaces the existing structure with the imported one.
- **Import as new structure**: Imports the structure as brand new not affecting the existing one. Also, if the structure does not exist currently it creates it as normal.

lease refer to and address the following error(s):		
Patient MRN already exists in database. Series UID found in existing course. Please s Reimport Structures •	elect an option for import.	
irrors Found During Import		
lease refer to and address the following error(s):		
ידי	Do Not Reimport	•
2TV 6840	Do Not Reimport	•
R Parotid	Do Not Reimport	•
Cord	Do Not Reimport	•
Cord+5	Do Not Reimport	•
Ant avoid	Do Not Reimport	•
Post avoid	Do Not Reimport	•
t Eye	Do Not Reimport	•
t Eye	Do Not Reimport	•
External	Do Not Reimport	•
IOLUS 1CM	Do Not Reimport	

Fig. 12: Re-Importing Structure List

Once you have made your decision for each structure you must select "Re Import Structures" to finalize your changes.

nose		Do Not Reimport 🔹
90 % (Trial_1)_1	Replace Existing Geometry 🔹
Structure:	90 % (Trial_1)_1 •	
Electron Bolu	8	Replace Existing Geometry •
Structure:	Electron Bolus •	
		Re-Import Structures
		Cancel

Fig. 13: Finalize Re-Import

Do Nothing

This is the simplest action, selecting to do nothing will cancel your import and return you to the main menu.



Fig. 14: Do Nothing

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Permanent link: https://apps.dotdecimal.com/doku.php?id=electronrt:userguide:tutorials:dicom_import&rev=1595449614

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