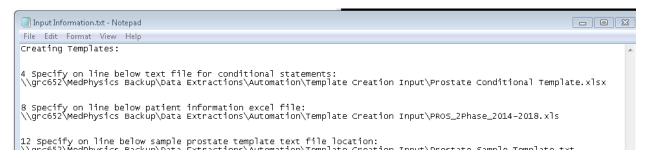
All examples done using prostate patients but can be adapted to other structures.

Setting up folder locations:

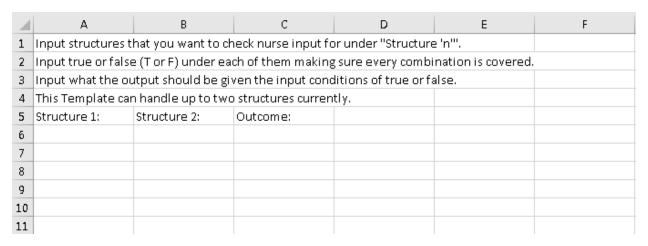
- 1. Go into \\grc652\MedPhysics Backup\Data Extractions\Automation
- 2. Open the Input Information text file.



3. Edit the directories under each description line if necessary, in order to get templates or extraction information files to where you want them to be.

Creating Patient Templates:

- 1. Go into \\grc652\MedPhysics Backup\Data Extractions\Automation\Template Creation Input
- 2. Open the blank conditional template excel file:



- **3.** Fill in the next blank row with basic structures as they should appear somewhere in nurse input within the system.
- **4.** Fill in the structure columns with every combination of T or F (true or false, respectively).
- **5.** Fill in the outcome column with what should be printed into each template given those conditions.

4	А	В	С	D	E	F
1	Input structures t					
2	Input true or false					
3	Input what the ou					
4	This Template car					
5	Structure 1:	Structure 2:	Outcome:			
6	PROS	PELB				
7	Т	Т	PELB			
8	Т	F	PROS			
9	F	Т	PELB			
10						
11						

6. In the same directory as previous open the excel file that Johnson's script extracts information from the database into:

1	Α	В	С	D	Е	F	G	Н
1	PatientId	Courseld	Plan_Name	VolumeCode	PrescribedDose	NoFractions	MLCPlanType	Body_Region
2	00039813	2	PROS	PROS	2	16	DynMLCPlan	PROS
3	00039813	1	PELB	PROS	2	23	DynMLCPlan	PROS
4	00056875	1	PROS	PROS	2	22	DynMLCPlan	PROS
5	00056875	2	PROS_BST 66Gy	PROS	2	11	DynMLCPlan	PROS
6	00056875	3	PROS_BST 78Gy	PROS	2	6	DynMLCPlan	PROS
7	00097298	2	PROS	PROS	2	16	DynMLCPlan	PROS
8	5 0097298	1	PELB/PROS	PROS	2	23	DynMLCPlan	PROS
9	00097298	2	PROSresim	PROS	2	13	DynMLCPlan	PROS
40	00404007	F i	DDOC	DDOC	7	40	DKill ODI	DDOC

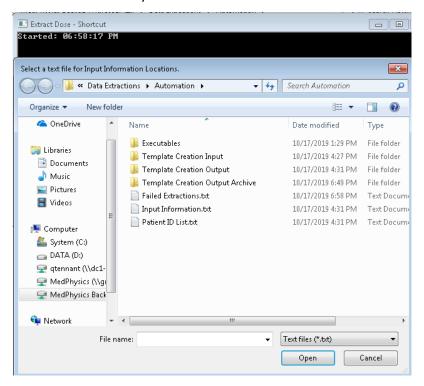
- 7. Only the columns titled 'PatientId', 'Courseld', and 'Plan_Name' are relevant, **BUT** they must be in the order outlined above and there must be a header in the first row of this file.
- **8.** Do a quick check of Patient IDs to make sure they are all 8-character strings of numbers only.
- **9.** The executable will not run on the very last patient ID if the row following it is blank, so put an 8-character string of 0's in the first column of that row.

485 00977035	2	PROSBED	PROS	2	10	DynMLCPlan	PROS
486 00980378	1	PELBPROSBED	PROS	2	23	DynMLCPlan	PROS
487 00980378	2	PROSBED	PROS	2	10	DynMLCPlan	PROS
488 00000000						_	
100							

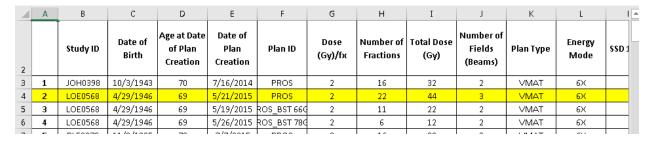
- **10.** From the Executables file run the Patient Template Creation executable.
- **11.** A directory window will prompt for the location of input information text file which was edited earlier. Select the relevant file.
- **12.** The templates will be created in the folder specified in Input Information.txt which can be edited individually if need be.
- 13. The Template Creation executable will also make a new archive folder within the Template Creation Output Archive each time it is run to have backups in case of emergency. Empty this folder when they are no longer needed. The executable will also create a Patient ID List text file in the Automation folder which patient IDs can be removed from if need be.
- **14.** To empty the Template Creation Output Archive folder run the Clear Templates Archive executable shortcut that is located within the Archive folder.

Running the Dose Extraction Executable:

- 1. From the executables folder run the Extract Dose executable.
- 2. A cmd window will pop up with the start time of running the executable along with a directory window to select which text file you want for the input information that was input in a previous section. Select your text file.



3. The program will begin running and pop up with the selected excel file for Patient Spreadsheet. It will automatically cycle through the Patient ID List.txt file along with selecting the patient specific template.



4. The program will also populate the Failed Extractions.txt file in the Automation folder with any errors for each patient along with a reason why.

```
Failed Extractions.bt-Notepad

File Edit Format View Help

Created 2019/10/17 06:58:17 PM

00039813 -- The PTV could not be found for plan PROS.
00039813 -- The PTV could not be found for plan PELB.
00039813 -- Structures,
PROS:

CTV_PELBPROS
PTV_PELBPROS
PTV_PELBPROS
PV_PELBPROS
PV_PELBPROS
PTV_PELBPROS
PTV_PELBPROS
PTV_PELBPROS
PTV_PELBPROS
PTV_PELBPROS
PT The PTV could not be found for plan PROS.
00056875 -- The PTV could not be found for plan PROS_BST 66Gy.
00056875 -- The PTV could not be found for plan PROS_BST 78Gy.
00056875 -- Structures,
PROS_BST 66Gy:
DDOS_BST 78GV:
```

- **5.** The program takes about 45 minutes to run on ~250 patients with varying numbers of plan IDs.
- **6.** Once it is finished it should pop up with the time that it was completed and prompt for a key press to exit.

Running Both Programs in one:

1. If you wish to run the patient template creation executable, then immediately run the dose extraction on those templates without editing anything then run the All In One executable from the Executables folder in Automation.