

## Information sheet – session 1

### INSTRUCTIONS

In this experiment, you will work with CTV mesorectum auto-delineations of 10 patients. You are asked to review these delineations, edit if needed and fill out the questionnaire. Please perform the tasks as you were in an online adaptive workflow and follow your patients order.

We kindly request to record your screen all the time while performing any tasks related to this experiment. We will use it to extract the time taken to perform the delineation task.

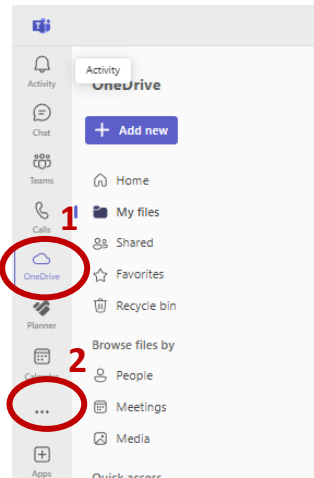
Please ensure that you complete all tasks independently, without any influence from other participants. Lastly, **it is crucial that you follow the instructions precisely for each case to avoid any potential differences in visualization.**

In the following, you will find three main sections.

1. **HOW TO ACCESS THE SHARED FOLDER:** instructions on how to access and use the shared folder, along with a description of its contents.
2. **HOW TO RECORD YOUR SCREEN:** instructions on how to start, end and save a video recording of the screen.
3. **TASKS:** step-by-step instructions for completing the required tasks for each case in this experiment.

## 1. HOW TO ACCESS THE SHARED FOLDER

1. Open *Teams*.
2. Go to *OneDrive* (1). If you do not find it, click on the three dots and search for it (2). Then open the shared file *Project uncertainty*.



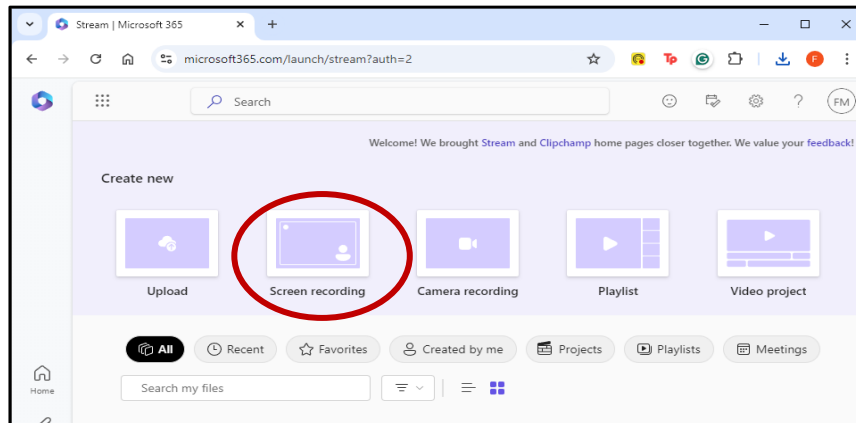
3. Select the folder *Phase 1* and then open the folder with your name. There you will find the questionnaire, a copy of this information sheet, and several folders. You will use the folder *Video recordings* to upload the recordings you create during the experiments and the folder *Questionnaire completed* to upload the questionnaire once you are done with this phase. You won't be using the folder *RTstruct&sessions*. I will take care of transferring your edited structures from Mirada to OneDrive.

My files > Project uncertainty > Phase 1 > Federica				
	Name	Modified	Modified By	File size
	Questionnaire completed	A few seconds a...	Federica Maruccio	0 items
	RTstruct&sessions	A few seconds a...	Federica Maruccio	0 items
	Video recordings	A few seconds a...	Federica Maruccio	0 items

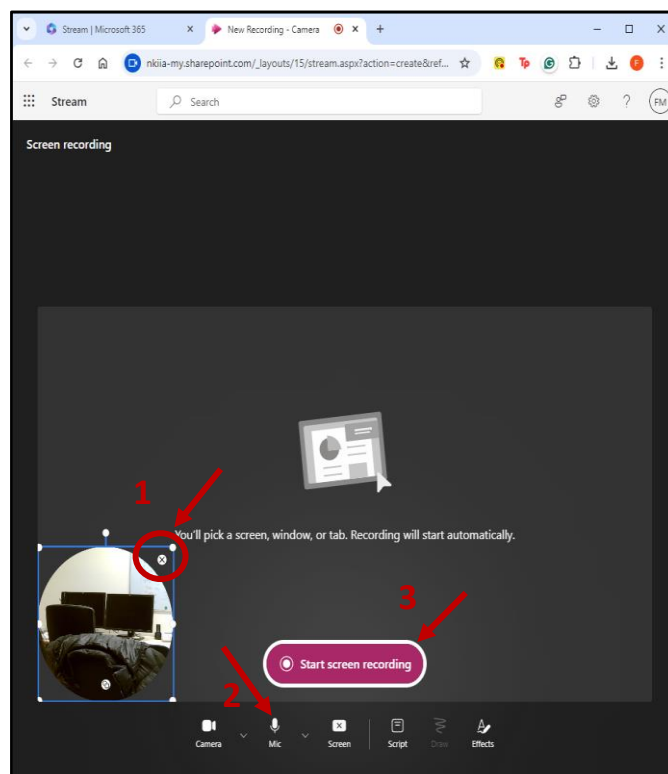
## 2. HOW TO RECORD YOUR SCREEN

### Start a video recording

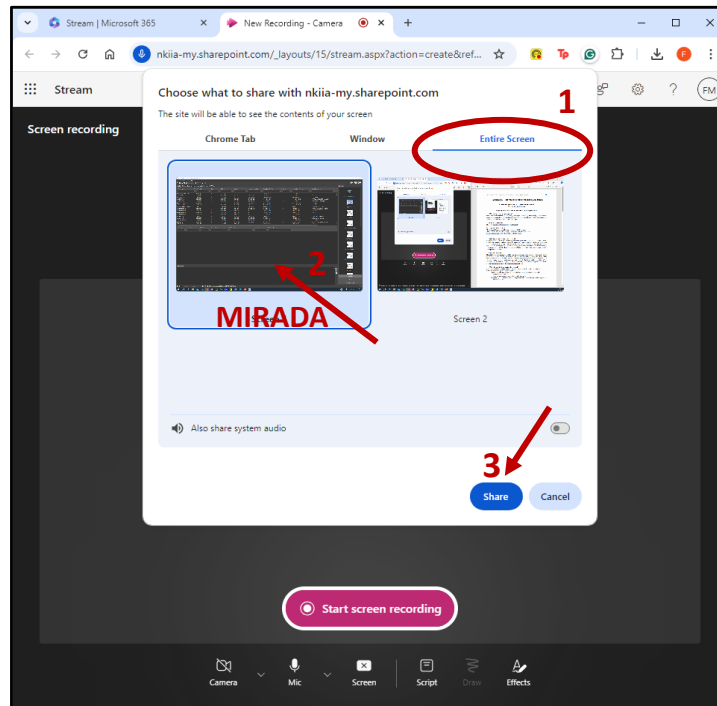
1. Open the screen recording website (<https://www.microsoft365.com/launch/stream?auth=2>) and press *Screen recording*.



2. Close the camera window by clicking on the x (1) and disable the microphone (2). Then click on *Start screen recording* (3).



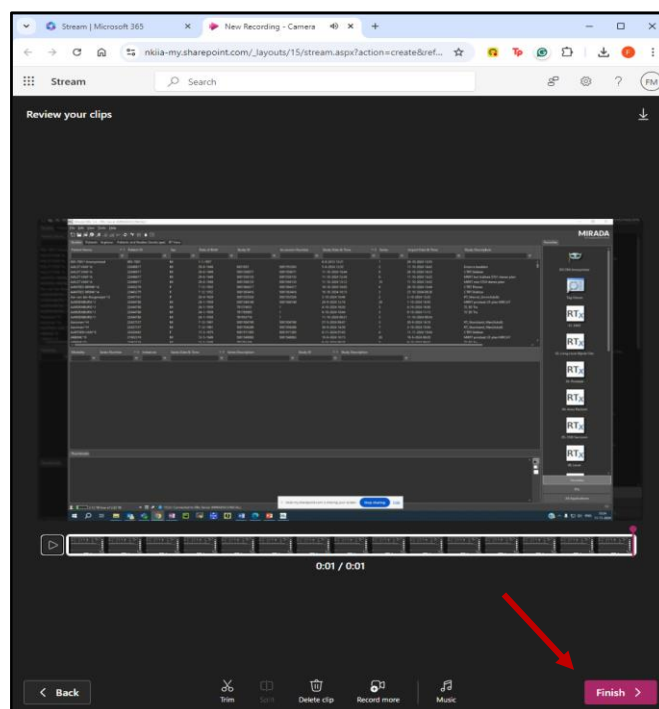
3. Choose entire screen (1), then select the screen where Mirada is open and will be used (2). (If still not open, please launch the program). Click *Share* (3).



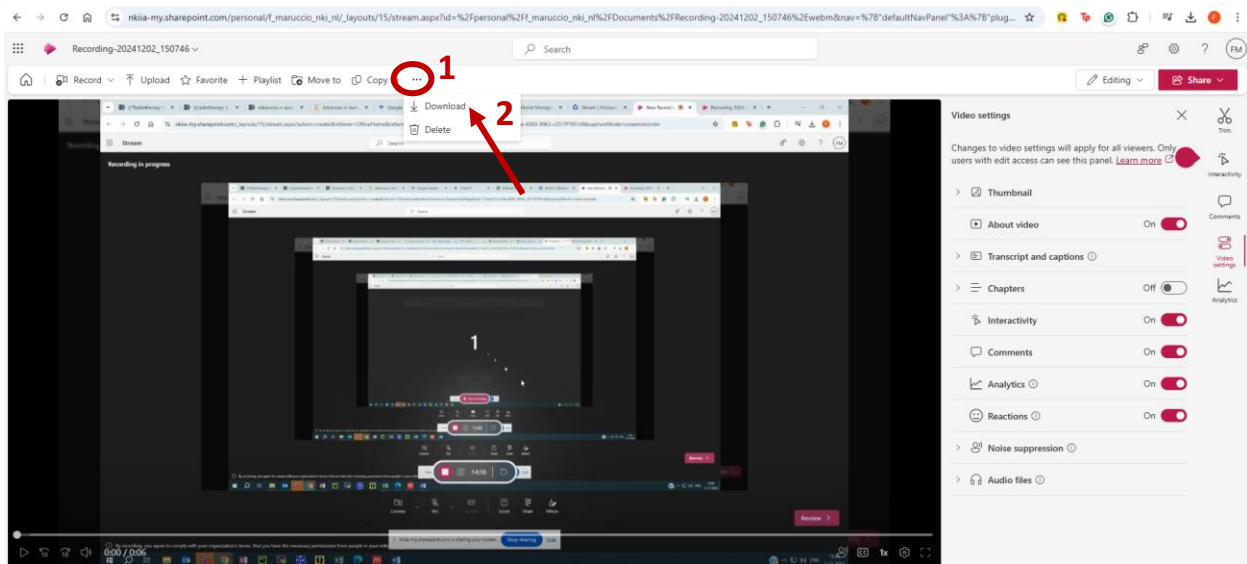
4. All the tasks you perform on this screen will be recorded. **Please, pay attention to not moving the Mirada window to another screen while recording. It is important that the recording captures the delineation task.** Now you are ready to start editing!

### End a video recording

5. When you are done with the tasks **for that patient**, go to the screen recording tab and click *Review* to check the video recording. If everything is okay, click *Finish*.



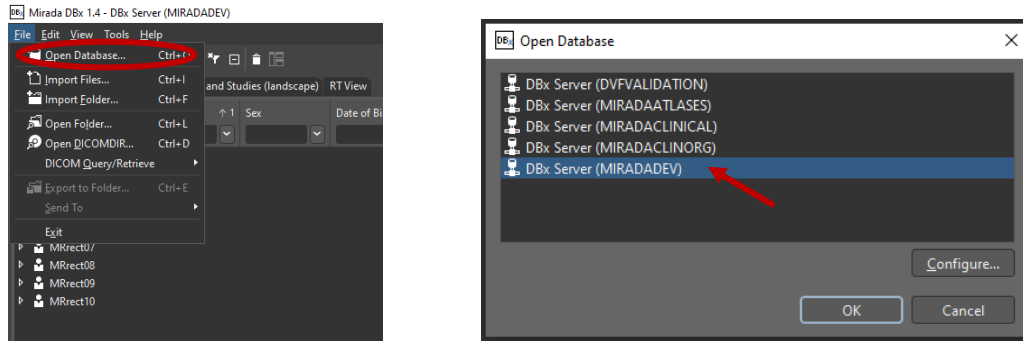
6. Download the video recording by clicking on the three dots above the video (1) and then selecting 'Download' (2). The download will appear in your Download folder. Please rename the file as 'Video\_phase1\_<your name\_<patient\_number>' and copy it to the shared folder.



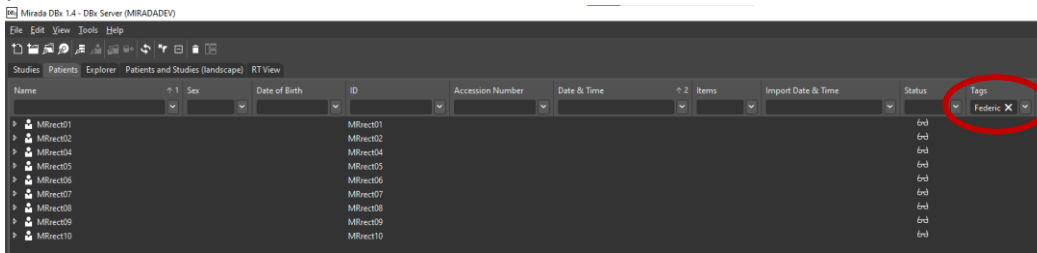
**Note:** We kindly suggest testing the recording system the first time you use it by going through all the previous steps before starting the actual experiment.

### 3. TASKS

1. Download the Word file *Questionnaire1* from the shared folder and open it.
2. Open Mirada and choose the database *MIRADADEV*.

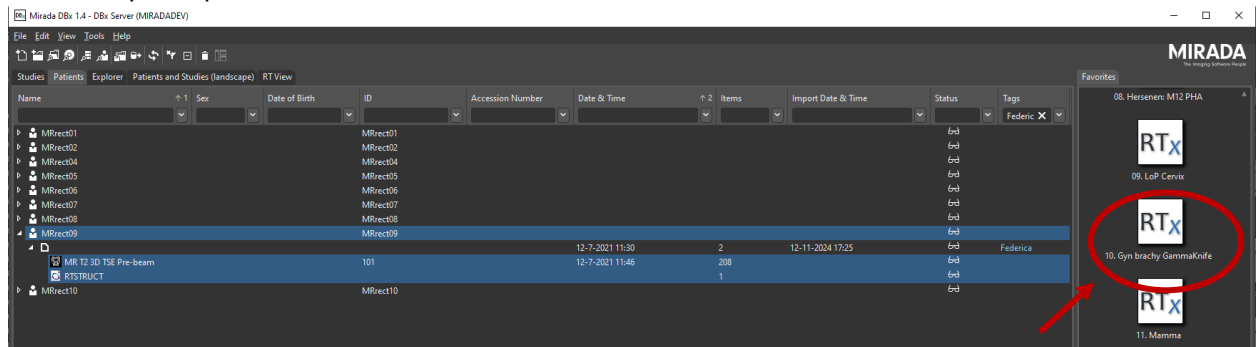


3. Search for the data with the tag *Federica* using the *Tags* searching bar. You should see a list of 10 patients called *MRrect*.



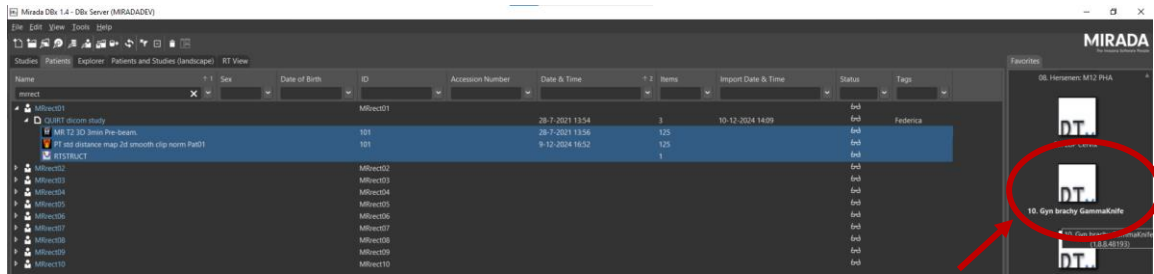
4. Start the screen recording. (Refer to section *How to record*, steps 1-4).

5.
  - In case of a patient with only DL contour available:  
Open the patient by selecting both the MR image and the RTSTRUCT and choosing the **Gyn brachy Gammaknife viewer**, as shown in the image below. Ignore the sessions saved by the other participants.



- In case of a patient with both DL contour and uncertainty map available:

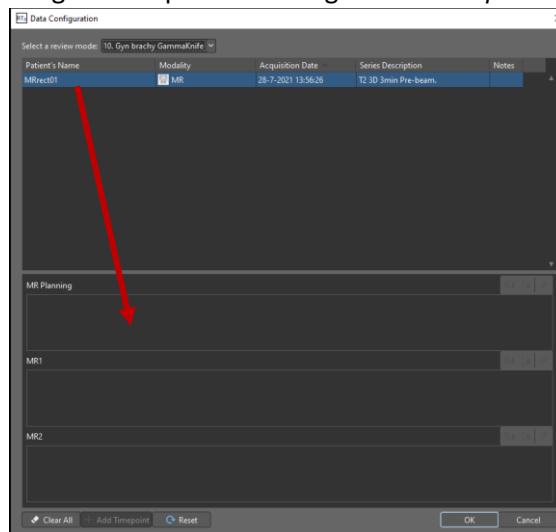
Open the patient by selecting the MR image, the RTSTRUCT and the uncertainty map and choosing the ***Gyn brachy GammaKnife viewer***, as shown in the image below. Ignore the sessions saved by the other participants.



6.

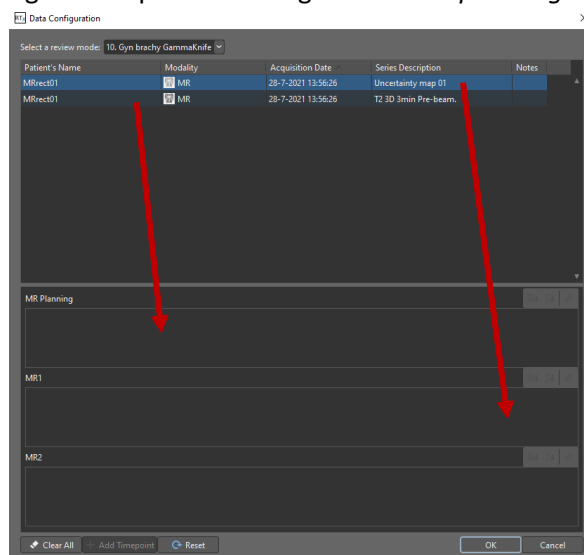
- In case of a patient with only DL contour available:

Drag and drop the MR image to the *MR planning* box.



- In case of a patient with both DL contour and uncertainty map available:

Drag and drop the MR image to the *MR planning* box and the uncertainty map to *MR1* box.

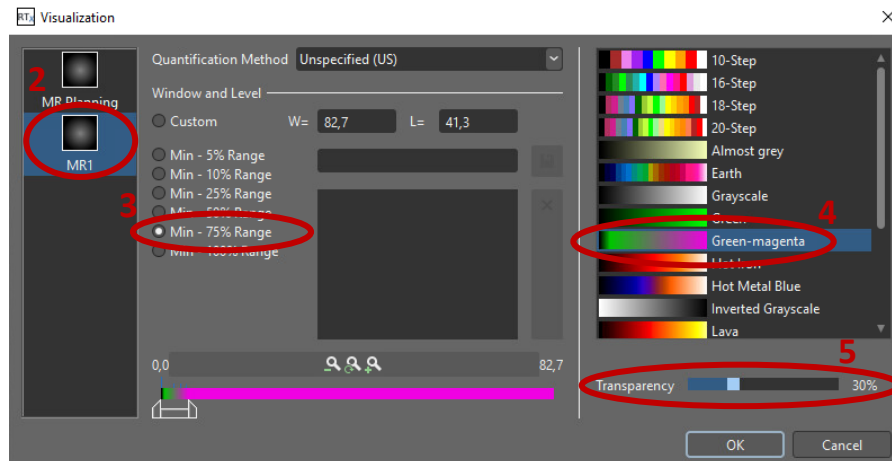
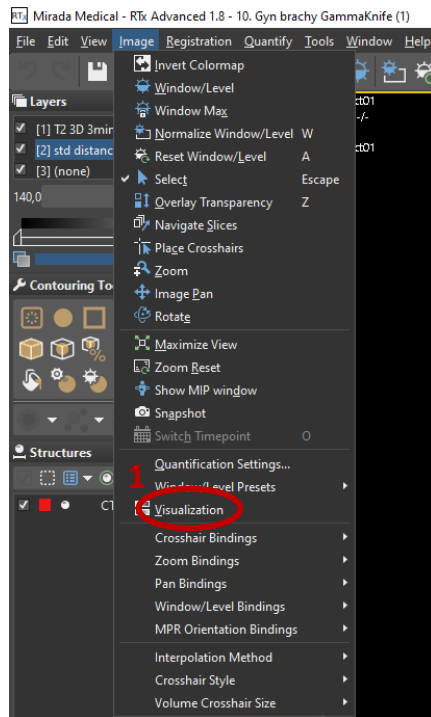


7. Only in case of a patient with both DL contour and uncertainty map available:

Open the **visualization** tool by clicking on *Image* in the taskbar (1). Then:

- select **MR1** (2)
- select **Min-75% Range** for the intensity values (3)
- choose the **green-magenta** colorbar (4)
- change the **transparency to 30%** (5)
- Click **OK**.

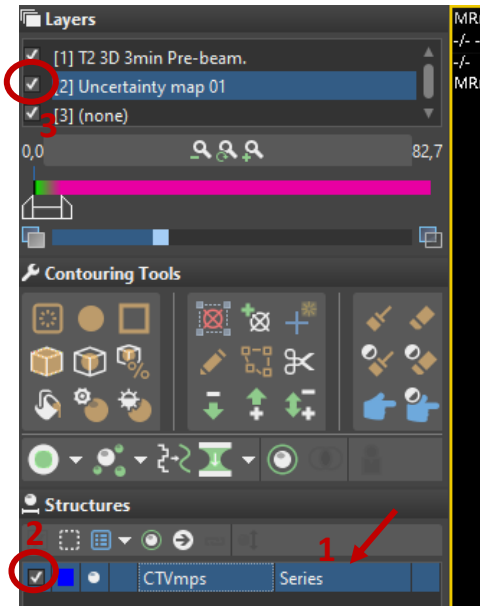
**Please follow these steps precisely for each patient.**



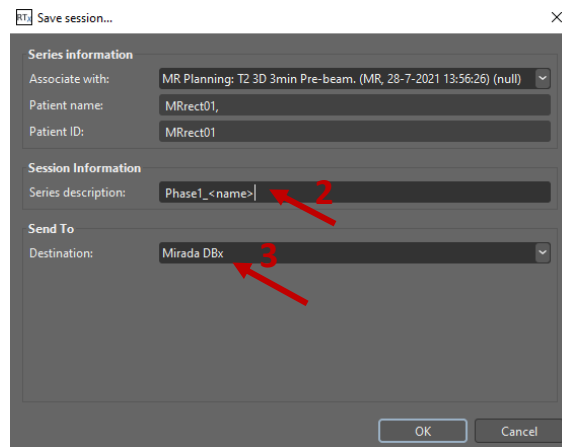
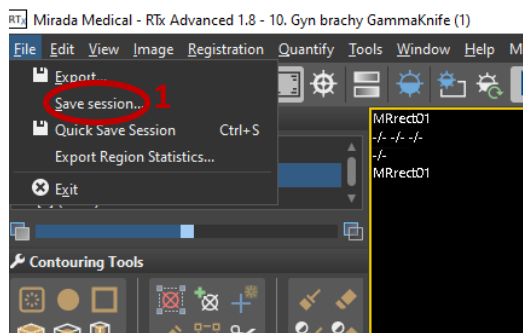
(In case Mirada opens in registration mode instead of the standard viewer, press 'Back to layout' and then perform step 7).



8. Select the CTV in the *Structures* box (1) and edit if needed by using the contouring tools. You don't need to copy the structure, you can directly edit the CTV as it is. You can select/deselect the visualization of the automatic delineation (2) and of the uncertainty map (3), if present. You can use the *space bar* as well to select/deselect the uncertainty map visualization.



9. Once you are done with this patient, save the whole session (1) typing '*Phase1\_<your name>*' in the series description (2) and selecting *Mirada DBx* as a destination (3).



10. In the Word file *Questionnaire1*, answer the two questions (Q1 – Q2) in Table 1 related to this patient, for example, row P1.

Patients	Q1. How do you <u>rate the unedited</u> model's prediction? (1 - 4)	Q2. How <u>confident</u> are you in your final decision? (1 - 5)
	<ol style="list-style-type: none"><li>1. Not acceptable: re-delineation needed</li><li>2. Acceptable: usable but many slices (&gt;5) corrected</li><li>3. Good: limited number of slices (2-5) corrected</li><li>4. Excellent: almost no modification</li></ol>	<ol style="list-style-type: none"><li>1. Totally unconfident</li><li>2. Somewhat unconfident</li><li>3. Indecisive</li><li>4. Somewhat confident</li><li>5. Fully confident</li></ol>
P1		

11. Stop the video recording and save it (Refer to section *How to record*, steps 5-6).
12. Repeat steps 4-11 for all the 10 patients following your assigned patients order.

In case of any questions, please reach out to *Federica Maruccio* via Teams or email ([f.maruccio@nki.nl](mailto:f.maruccio@nki.nl)).