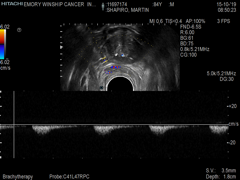
Image acquisition

Buttons are properly labeled by physicists previously, so reach out to them whenever having problem. Confirm settings with physicists in case of any change/difference. Also reach out to Erika or Simone when help is needed and physicists not available.

1. Simone identifies potential patients to enroll and send out email with info.
2. If this is a case in OR, sonographer contacts POD to give 1-2 day heads up and figure out arrangement and navigation to OR.
3. If this is a case in clinic, sonographer shows up according to Simone’s email and wait for the patient to be consented.
4. For clinic case, once the pt is consented and ready for procedure, sonographer enters the room to set up machine. Step 4 and 5 can also be done before the patient enter the room. Plug in (use the outlet/ socket on the wall facing the door) and start the machine if it’s not set up by nurses.
5. In OR, sonographer set up machine following physicist’s instructions.
6. Type in pt info (Simone provided in the previous email in Step 1) while the team’s setting up the patient.
7. **Probe setting: brachytherapy**, refer to the following image to confirm setting.
8. Remind the physician your goal is to do **3D B-mode** (**2mm per frame for procedures in clinic and LDR in OR, 1mm per frame** with Dr. Patel) **first and then Doppler**. 
9. If this is the **first visit**, **wait for the physician to say ready**. If this is a **second or follow up visit**, **show the physician selected images color printed images with the estimated location based on available 3D B-mode images captured during previous visits**.
10. When the physician is ready to capture, **turn grid on** (2nd page of probe setting) and let him confirm the **prostate is centered**. And then **turn off grid**.
11. **Capture 3D B-mode images** (2mm per frame for procedures in clinic and LDR in OR, 1mm per frame with Dr. Patel) **from base to apex**.
    1. **The physician handles the step and sonographer capture**.
    2. Usually the physician gives the signal “**okay**”, sonographer say “**next**” **when the current frame is saved**.
    3. Physician move the stepper and repeat step b.
    4. Finish B-mode.
12. **Capture Doppler images for left and right sides**.
    1. First **turn on the color flow and let the physician choose the pulsing signal**.
    2. Then **turn on doppler to capture the signal** (**press update to see the signal and then save the image**).
    3. Repeat a and b if another doppler is needed.
13. Always try to get **two for each side for first visit** and then **at least one for each side for later on visits**. **During visit I, let the physician find the best signal**. For second or follow up visit, try to get to the location shown in the aforementioned physician selected images. If failed to reproduce previous location, tell the physician to find the best he can.
14. Leave the scene when finish. Simone will transfer images so you can access via VDT.

实验笔记

手术室需要申请scrubs。

hitachi 是欧洲风格记名字

Ｂ mode brightness gain to 60 by rotating the freeze button, this is for new system. For old system, set it to 30.

Change plane to **sagital by pressing U1** at the left bottom button

Store the image by pressing the **store button** on the right bottom for new system, click the **save** button at the right bottom side for **old system.**

Turn the **grid** on and off by going to the second page of brachytherapy and select brachytherapy for new system, **for old system, go to the left top and find the guide button to click**.

**Color flow by pressing the button CF**

Doppler by pressing the **PW and turn the Doppler auto trace on**

**Sample volume can be adjusted by pushing the bottom up or down below the sample volume on the screen.**

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