




CT SIMULATION FOR RADIATION THERAPY

- 一、 What is it: A CT simulation for radiation therapy follows your initial consultation at our department. It includes making an immobilizing device (Figure 1), a CT scan, and reference lines marking on your skin (Figure 2). Your body portion of the treatment site will be scanned and its images will later be used to design the optimal treatment plan for you. The plan ensures a precise irradiation delivery targeting the area of concern as well as sparing surrounding critical structures maximally.
- 二、 Please arrive 15-30 minutes early on the day of your appointment. It will give you adequate time to change into a hospital gown. Our staff will guide you to familiarize with the department. The you will then wait in our waiting area until the radiation therapist guides you to the CT simulation room
- 三、 What to expect: We will use oily ink pen to create the marks on your skin and the immobilizing device.
 1. Immobilizing device (mask or mold) : You will lie still while radiation therapists working on customizing immobilization device (mask or mold) for you. It is positioned on the table to hold you in place and give extra support to optimize the accuracy of your treatment. The device will be utilized keep you in the same position each and every time you are treated.
 2. CT scan: Your body portion of the treatment site will be scanned.
 3. Markers will be made on the immobilizing device and your skin to serve as reference lines and points that help our radiation therapists place you in the correct and exact position every day, ensuring your treatments are accurate and precise.

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| Figure 1 Mold and the position (Different postures according to the treatment plan) | | Figure 2 Markers will be made on the immobilizing device and your skin to serve as reference points |
|  |  | (The model in the photo is our staff)  |

- 四、 What happens after simulation:

The CT images obtained during your simulation will be used for your specific treatment plan. Our exquisite computer planning system allows for a 3-dimensional plan to be generated with the option to fuse your PET/MRI images to help with the localization and mapping the treatment site.
- 五、 Treatment planning process:
 1. Can vary and range from one to seven working days depending on the complexity and type of the treatment plan for you.
 2. Radiation therapy may start one to ten working days after the simulation.
 3. weekends and holidays off. On special condition or techniques, radiation may be delivered one to three times every week.
 4. After your simulation, you will be given an appointment card with the time and date at your first

The total fractions of treatments needed is determined by your radiation oncologist and can range between one to eight weeks depending on the goal of the radiation treatments and the treated site. Most of the radiation treatments are performed daily, 5 days a week from Monday to Friday with appointment for treatment.

5. Your appointment time will usually be the same throughout your course of treatment (examples: Daily at 2:15 pm or daily at 10:45 am). Routine treatments are scheduled from Monday through Friday on a daily basis between 8:00 am and 4:30 pm, except for holidays.
6. You have any question, please call telephone number: 02-77281031.

六、 Adapted from Reference: <https://www.nwhealthporter.com/what-to-expect-radiation>

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