

*If you have  
any questions,  
please talk with  
your physician  
or nurse.*

## Radiation Therapy to the Brain

You and your physician have chosen radiation therapy as part of your cancer treatment. This handout describes:

- What to expect
- How to care for yourself during treatment
- How to reduce side effects and increase your comfort during treatment

Most often, your physician will prescribe 10 to 30 radiation treatments. The radiation treatment itself is just like having an X-ray. It is not painful and you will not feel anything.

### Treatment schedule

The treatments take place Monday through Friday (no weekends or holidays). Your therapist will work with you to set up daily appointment times, each lasting 15 to 30 minutes. While the actual treatments take only a few minutes, it is best to allow 1 hour for:

- X-rays
- Meetings with your physician or nurse
- Any unexpected delays

You will have X-rays as prescribed by your physician to make sure you are in the right position on the table during your treatment. Your physician does not use the X-rays to diagnose problems or assess treatment effects.

You will meet with your physician at least once a week on \_\_\_\_\_.  
During these visits, your physician will check your treatment and side effects. You may discuss any concerns you have with your treatment during this time.

### Common side effects

Radiation is a very specific treatment. It affects only the area where the beams are aimed. As a result, you can expect to have side effects only in the treated area. The side effects add up over time. This means that at first you will feel no effect, but you may get new or worsening side effects as you get more treatments. You can expect most of the effects listed below to start after 10 to 15 radiation treatments. Once you finish your radiation therapy, your symptoms may last up to 7 to 14 days.

### ***Neurological effects***

Please tell your physician or nurse if you have any of the following:

- Worsening headaches
- Vision changes
- Hearing changes
- Change in your mental status (loss of alertness, confusion, memory loss, behavior changes)
- Changes in your balance

This could be due to brain swelling, a common short-term side effect. Your physician may prescribe medications to decrease the swelling.

### ***Nausea and vomiting***

Some patients may have nausea with or without vomiting. Let your physician or nurse know if you have any nausea or vomiting. There are medications that your physician can prescribe for you.

### ***Skin changes***

During radiation you may notice some changes to the skin on your forehead, ears and scalp. Skin in these areas may become dry, itchy, darker in color or reddened.

To ease discomfort and protect your skin, follow these guidelines:

- Clean the area with baby shampoo or bath soap for sensitive skin. Some suggested soaps are: Dove® for Sensitive Skin or Neutrogena® Unscented. Avoid shampoo or soaps that are scented or anti-bacterial.
- Use lukewarm water. Hot water can further irritate the skin.
- Gently clean using a soft cloth or your hand.
- Pat your skin dry. Do not rub.
- Do not shave the area being treated with radiation.
- Do not use heating pads or ice packs on the treated area.
- For head coverings, choose cotton or soft knit fabrics.

If you are concerned about the changes to your skin, please talk with your physician or nurse.

Your physician or nurse may also suggest special creams or lotions to help moisturize your skin in the treatment area, such as Aquaphor® or Miaderm®. **Do not put any skin creams or lotion on your treatment area in the 2-hour window before your treatment. Doing so can cause your skin to be more sensitive to the effects of radiation.**

### ***Hair loss***

During radiation to your brain, you may start to lose hair after 10 to 15 treatments. Hair loss depends on the:

- Size of the treatment area
- Amount of radiation that you receive
- Use of other treatments, such as chemotherapy

Your physician or nurse will let you know if your hair loss is likely to be permanent. If the loss is expected to be short-term, you will start to see hair grow back about 2 to 3 months after you finish your therapy. It may take 6 months to 1 year for your hair to fully grow back. You may notice a change in your hair texture and/or color.

When you are outside, always cover your head to protect your scalp from sun and wind. If you are interested in a wig, please ask your nurse for resources.

### ***Fatigue***

Fatigue is a common side effect of radiation treatment. Daily trips for treatment combined with the effects of radiation may make you more tired. Patients most often feel lower energy levels after about 10 treatments.

Staying active and keeping a consistent sleep schedule can help improve energy levels. Try not to over-exert yourself. If you become tired, plan for rest periods during your day.

If you have any questions, please talk with your physician or nurse.