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Radiotherapy, Eye (眼部放射治療)

Radiotherapy (Eye)

I. Introduction

Radiotherapy involves the use of high-energy X-rays or electron beams to destroy the tumour while trying to preserve normal tissues as far as possible. Although radiation also affects normal cells in the area treated, their ability to recover is usually better than that of tumour cells.

II. Procedure

- You will not experience any pain during the treatment procedure.
- Before each session, our staff will make sure that you are in the correct position for treatment. You will then stay in the treatment room alone for a few minutes while radiotherapy is being delivered.
- You will be closely monitored through a closed-circuit television system. You can speak to us using the intercom if necessary.

III. Risks and Side Effects

- Although radiotherapy is an effective treatment for your disease, it can cause shortterm and long-term side effects. Our medical and nursing staff will offer appropriate treatment to help you complete the course of radiotherapy.
- Some of the common and potentially severe side effects are discussed below. Each patient reacts differently and may experience none, some, or all of the complications to a varying degree of severity. If other types of treatment such as chemotherapy are given in conjunction with radiotherapy, some of the side effects may be exacerbated. Complications are also more common in patients who have had previous surgery/ radiotherapy in the area being currently treated with radiotherapy.

A. Short-Term Side Effects

These may occur during radiotherapy, but usually disappear several weeks after the completion of treatment.

Common

- 1. Tiredness, nausea and decreased appetite.
- 2. Irritation of the eyes or inflammation of the conjunctiva and cornea.
- 3. Skin dryness, reddening, irritation or darkening in the area treated.
- 4. Temporary loss of eyelashes, eyebrow or hair inside the radiation field.



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Uncommon

- 1. Skin blistering or peeling.
- Postoperative irradiation: Impaired wound healing.

B. Long-Term Side Effects

These may appear several months to several years after radiotherapy and may persist.

Common

- 1. Skin dryness, thickening and colour change in the area treated.
- 2. Dry eyes or excessive tearing.
- 3. Cataract.
- 4. Ulceration of the cornea.
- 5. Visual impairment or blindness.
- 6. Scarring of the eyelids which may lead to irritation or problems with closure. Surgery may be required.

Uncommon

- Swelling of the treated area. This usually subsides several months after treatment but may persist in some patients.
- 2. Permanent loss of eyelashes, eyebrow or hair inside the radiation field.
- 3. Ectropion (Eyelids folding outwards) or entropion (eyelids folding inwards).
- 4. Damage to brain tissue.
- If the nose or paranasal sinuses are in the radiation field: Damage to the lining of the nose and nasopharynx with a tendency to infection and bleeding, narrowing of the nasal passages, permanent changes in or loss of smell sensation, chronic or recurrent sinus inflammation.

Rare

- 1. Shrinkage of eyeball.
- 2. Severe damage to the eyes requiring surgical removal.
- 3. Severe radiation injury to bone, soft tissue or cartilage in the treated area causing chronic pain, infection or ulceration. Surgery may be required.

Note:

- Radiation-induced tumours may occur, but this is rare.
- The growth of irradiated areas may be affected in children.
- On rare occasions, patients may develop severe life-threatening complications due to radiotherapy and die.
- It is possible that the intended treatment outcome cannot be achieved, and the disease



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may not be alleviated or may recur/ progress in the future.

• Despite all precautions, unpredictable and unpreventable adverse outcomes may occur after treatment. Please kindly ensure that you understand the pros and cons of radiotherapy before deciding on undergoing the latter.

IV. Before the Treatment / Preparations Required

- 1. The treatment plan and radiotherapy schedule depend on the type and location of the tumour, as well as your health condition. Your doctor will discuss the details with you and explain how you can cope with the treatment side effects.
- 2. Sometimes skin tattooing or a special mould will be required to improve treatment accuracy.
- 3. Our staff will take written, photographic and radiographic records of your treatment for radiotherapy planning and future reference. These records may be used for research or scientific publications but your confidentiality will be maintained at all times.
- 4. Avoid applying ointment or cream on the area treated before attending your radiotherapy session. No other preparation is required unless specific instructions have been given by our staff.

Note:

- Radiotherapy can cause teratogenicity (i.e. lead to abnormal fetal development). During radiotherapy, both male and female patients (if applicable) should take contraceptive measures.
- Radiotherapy may affect the function of your pacemaker. Please let us know if you have a cardiac pacemaker.

V. After the Treatment

- 1. You may feel tired or experience other side effects with radiotherapy. Please consider having a friend or relative accompanying you to the hospital if possible.
- 2. Our doctors will assess you on a regular basis and take appropriate measures to minimise your side effects.
- 3. If you feel unwell during the treatment period, please inform our staff.

VI. Follow-up

- 1. The time taken for recovery varies from person to person, some people can go back to work shortly after the completion of treatment.
- 2. After completing the whole course of radiotherapy, a follow-up appointment will be arranged to assess your response to treatment and to look out for complications.



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Please attend your appointment as scheduled.

3. Please ensure that you follow precisely the instructions given to you regarding medications (if applicable).

VII. Remarks

The list of complications is not exhaustive and other unforeseen complications may occasionally occur. The risk of some complications may actually be higher for certain patient groups. For further information, please contact your doctor.