User manual for use of bolus

# Introduction

Patient-Specific Bolus is a technique used in radiation therapy to provide customized radiation dose to a specific area of the body. It is a temporary material placed on the skin surface, which helps to shape the radiation beam and deliver a precise dose to the target area. This manual provides information about the use of patient-specific bolus in radiation therapy.

# Preparation

Before using patient-specific bolus, the following steps need to be taken:

1. The treatment plan for radiation therapy should be designed by the radiation oncologist.
2. The bolus should be selected based on the patient's anatomy and the radiation dose required for the target area.
3. The patient should be positioned on the treatment table as per the treatment plan.
4. The treatment area should be cleaned and dried.

**If there are wounds or broken skin on the surface area, please cover this. Do not place bolus on wounds or broken skin.**

# Application

The following steps should be followed for the application of patient-specific bolus:

1. The bolus should be placed on the skin surface covering the target area.
   1. If necessary, the bolus can be cut in the red areas marked on the picture for easier application. (**See picture**)
2. The bolus should be fastened with tape to the skin to prevent it from moving during treatment.

# During Treatment

During treatment, the following steps should be taken:

1. The radiation therapist should ensure that the bolus and the treatment area are in the correct position.
2. The radiation therapist should monitor the patient during treatment to ensure that the bolus and treatment area do not move.
3. The patient should remain still during treatment to ensure that the radiation beam is delivered accurately.

# Removal

After treatment, the following steps should be taken to remove the bolus:

1. The tape used to attach the bolus to the skin surface should be carefully removed.
2. The bolus should be gently removed from the skin surface.
3. The treatment area should be cleaned and dried.

If the patient has finished treatment the bolus is disposed of. If the patient needs more treatment save and store the bolus.

# Disposal

When the patient has finished all radiation treatments the bolus needs to be disposed of. Cut off the ID on the bolus and cut it into smaller pieces using scissors. Dispose of it in the trash.

# Conclusion

Patient-Specific Bolus is an important technique used in radiation therapy to provide a precise dose of radiation to the target area. By following the steps outlined in this manual, radiation therapists can ensure that patient-specific bolus is used safely and effectively.

