

BC CANCER-KELOWNA BRACHTHERAPY PENILE IMPLANT REMOVAL PROCEDURE

Summary of Changes

	NEW	Previous
BC Cancer		

BRACHYTHERAPY PENILE IMPLANT REMOVAL

1. Introduction

1.1. Introduction

Penile (Interstitial) High-Dose Rate (HDR) Brachytherapy is the delivery of radiation to treat cancer using surgically inserted treatment needles.

The dose of radiation is generally delivered twice daily over the course of one week, and requires admission to Kelowna General Hospital for the duration of the treatment schedule.

On the last day of treatment the patient returns to BC Cancer Kelowna for treatment and removal of the penile implant by the physician with nursing support and then return to KGH for patient discharge.

1.2. Focus

To provide a procedure for the removal of the template and needles upon the completion of the patients course of treatment

1.3. Health Organization Site Applicability

This Procedure applies to:

- BC Cancer Kelowna Brachytherapy program
- All nursing staff at BC Cancer Kelowna who participate in the removal of penile implants for brachytherapy

1.4. Need to Know

The nurse must review this procedure prior to assisting the physician in the implant removal procedure.

1. Patient will be booked to RT Medical Daycare on the last day of treatment for the removal. Removal may occur in the RT Medical Daycare rooms or in the Lake Treatment Unit.
2. Pre-procedure analgesia to be administered prior to the removal procedure by nursing staff at the host hospital (Kelowna General Hospital) or, with an order from the BC Cancer Kelowna Most Responsible Physician (MRP), by nursing staff at BC Cancer Kelowna.

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1.5. Equipment and Supplies

- a. Prostate Brachytherapy Tray
- b. Sterile gloves size 6.5 (Dr Crook's)
- c. Sterile gloves for nurse and fellow (if attending)
- d. Povidone Iodine package; hold, do not open unless required
- e. Sponge stick (steri-peel item, in OR cupboard); hold, do not open unless required
- f. Povidone bottle (use with q-tips)
- g. 3 x 8 Telfa dressing
- h. Paper tape
- i. Cling gauze
- j. #15 blade (single use)
- k. Sterile Q-tips (approx. 12-20)
- l. 10cc syringe
- m. Large wire cutters (call {vocera #} and they will be sent via tube - #513)
- n. Large basin for removal items
- o. 500 ml Normal Saline
- p. 1 pkg lap sponges
- q. 1 pkg (10 pack) 4x4 gauze
- r. Alcohol swabs
- s. Blue caps and wrench (supplied by RTT/Brachy CNL; stored in brachytherapy procedure room)
- t. Straight mosquito forceps x 2 (stored in OR cupboards, steri-peel)
- u. Sterile steel tray (stored in OR cupboard, wrapped in green)

2. Procedure

2.1. Steps and Rationale

Note: The removal procedure requires support from 2 nurses – 1 nurse to assist physician with sterile supplies for removal and 1 nurse to assist with non-sterile processes.

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1. Radiation Oncologist (RO) to loosen collettes with wrench:
 - All external needles (needles NOT in tissue) will be removed first
 - The Internal needles will be removed all at once with the grid (if possible) after cleansed with Povidone iodine
2. RO to place needles and grid in large basin and clean with sterile Q-tips soaked in Povidone
 - Ensure needles are well cleansed as they will be going back through patient tissue
3. RO to use #15 Blade and straight mosquitos to remove all the needle identification stickers
4. Nurse assisting to confirm with RO that all needles and collettes are accounted for.

Note: After removal mild bleeding is expected, the RO will apply pressure to area until hemostasis achieved.

5. RO to use 10cc syringe to deflate Foley balloon and remove Foley catheter
6. Review “After Treatment Care” (part of penile interstitial education package) with patient prior to discharge
7. Document as per organizational standards
8. Nursing/Clerical/RO to call Porter to transport back to KGH DCEX
9. Take instruments to dirty service room and marry instruments up into appropriate sets (set trays/containers are in the dirty service room awaiting completion of pts treatment).
 - a) Penile Interstitial HDR Brachy Set Tray (collettes, wrench and template) (Appendix A)
 - b) Penile Needle Tray (needles only) (Appendix B)
10. Wipe HDR connector end of each needle with disinfectant wipe and apply new blue caps
 - This ensures moisture does not get inside needle where radiation is delivered
11. Apply spray cleanse to reusable instrument sets before and send to the Kelowna General Hospital (KGH) Medical Device Reprocessing (MDR)

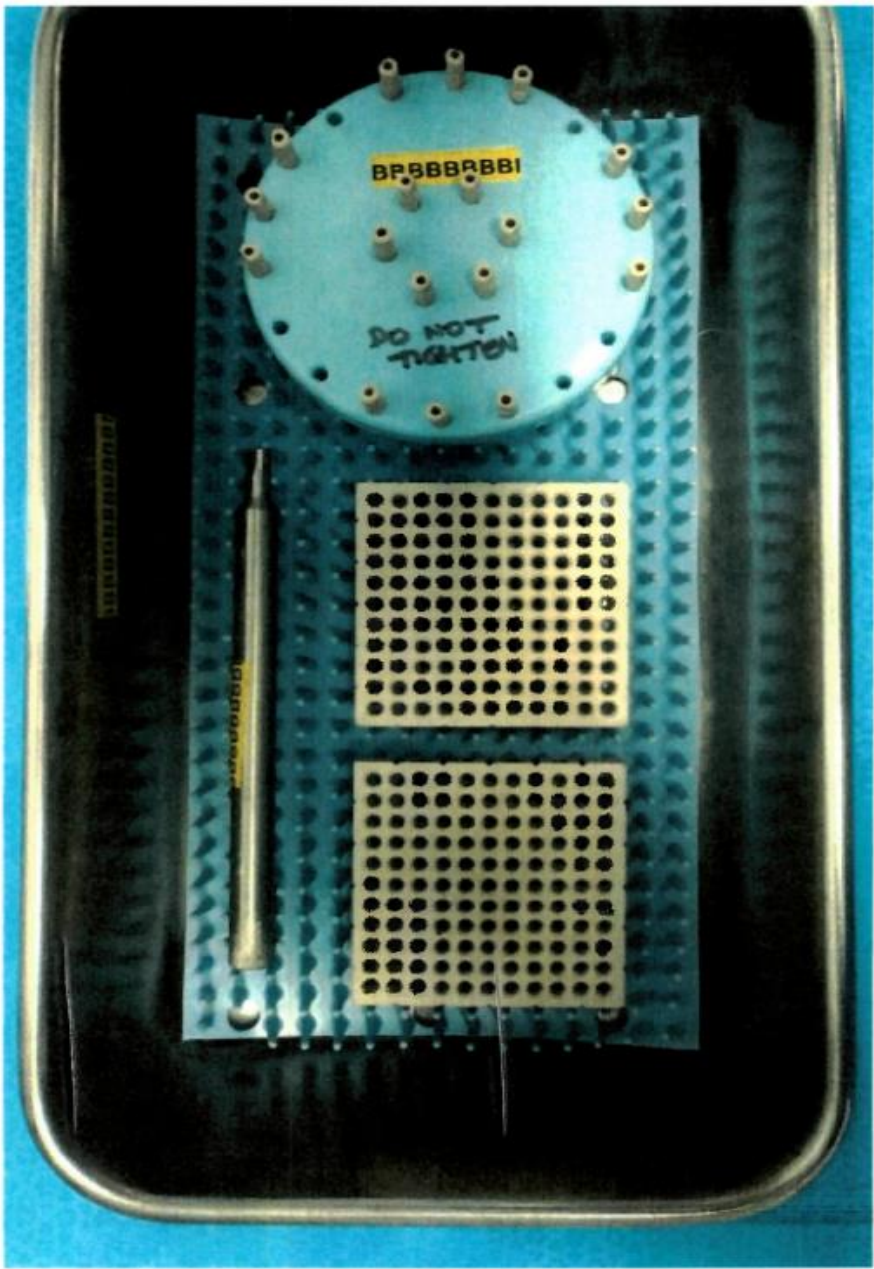
3. Appendices

See next page.

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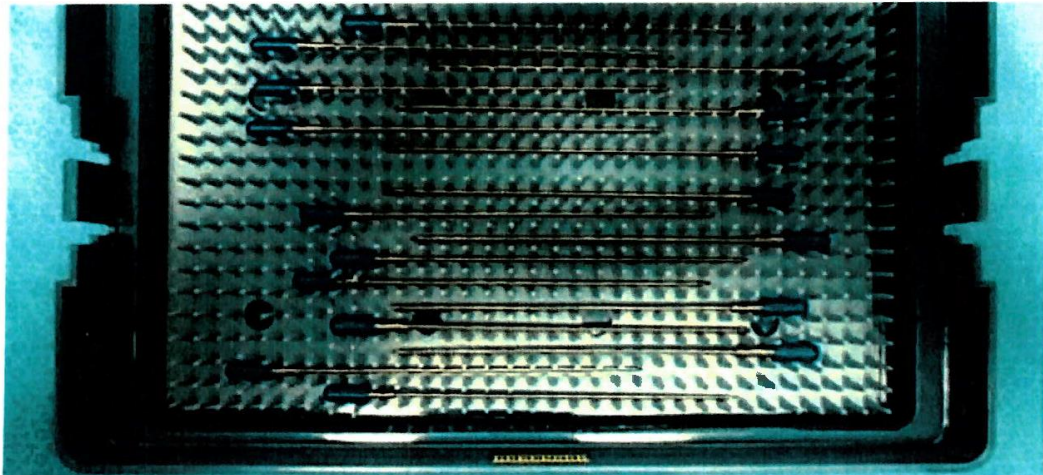
Appendix A: Penile Interstitial HDR Brachy Set Tray



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Appendix B: Penile Needle Tray (needles only)



**Needles will arrive from CCSI with Blue Caps attached.
Leave on for washing - remove for sterilization.
Place NEW caps in paper autoclave bag in pan.**

**MDR
Instructions**

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First Issued:	March 2020		
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Posted Date:	08-JAN-2021		
Version:			
Revision:	Name of Reviser	Description	Date
	H. Cooke		20-APRIL-2020
	Rochelle Neid	Addition on equipment images	31-DEC-2020