

# Mount Carmel Mercy Hospital

## DIAGNOSTIC RADIOLOGY

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## INTERVENTIONAL RADIOLOGY

BARU R. VEMURI, M.D.

## RADIATION PHYSICS & ELECTRONICS

LLOYD A. SMITH, B.S.

June 26, 1985

Materials Section  
US Nuclear Regulatory Commission  
Region III  
799 Roosevelt Road  
Glen Ellyn, IL 60137

RE: NRC License No. 21-00998-01

We would like to increase our possession limit of 25 mc. for I-192 to 50 mc. Dr. James Gamero, our Radiation Oncologist, has requested this change because a bi-plane implant sometimes requires more than 25 mc.

The use of this source has been approved by our Isotope Committee.

All radiation safety instructions and source handling requirements are enclosed.

Very sincerely yours,

*Kenneth D. McGinnis*  
Kenneth D. McGinnis, M.D.

KDM:nm

encl.

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| Applicant        | <i>July 16/85</i>  |
| Check No.        | <i>22934-445</i>   |
| Amount           | <i>235.25</i>      |
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| Received By      | <i>[Signature]</i> |

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PDR

*Barbara  
Warren*

Department of Radiology  
BRACHYTHERAPY PATIENT



IRIDIUM 192

STANDING INSTRUCTIONS FOR PATIENTS RECEIVING IRIDIUM IMPLANT THERAPY

1. The chart of this patient and the patient's room door should be labeled with a CAUTION sign. If either sign is missing please call the Radiotherapy Department.
2. A private room shall be provided for brachytherapy patients. A member of the Radiotherapy staff will write orders for transfer into a private room when necessary.
3. Hospital personnel shall avoid spending unnecessary time in close proximity to the patient (no more than 15 minutes per day at two feet from the location of the sources or two hours per day at six feet).
4. Visitors must stay at least six feet from the patient and visiting time is limited to 20 minutes per day per person. Persons under 18 years of age and pregnant females are to be excluded from this patient's room.
5. The patient shall remain in the room.
6. Dressings and excreta containing dressing in connection with this patient shall not be removed from the room until it has been checked by a Radiotherapist, the Radiotherapy resident on call, or by the Radiation Safety Officer.
7. If any Iridium Ribbons, or the Buttons used as anchors become loose or fall out, do not try to replace them. Call the Radiotherapy Department or the Radiotherapy resident on call.
8. The Radiotherapy staff member removing the radioactive sources will indicate the termination of treatment in the patient's chart and will remove the CAUTION signs from the chart and the patient's room door.

SPECIAL INSTRUCTIONS.

RADIOTHERAPY DEPARTMENT

6 927-3116

BRACHYTHERAPY PROGRAM FOR SEALED SOURCES

Ir-192 SEEDS

TERMINATION OF TREATMENT:

1. Return the seeds to the lead pig.
2. The patient and room must be surveyed by a qualified person to ensure that all the sources have been removed.
3. Fill out form RT-2 and place it in the patient's chart.
4. Remove the signs from the chart and door. Forms RT-1 and RT-3 should be removed from the chart and returned to the Radiation Therapy Department.
5. Collect the film badges from the nursing station and return them to the x-ray department.
6. Return the seeds to the storage room. Fill out the log book and form RH-103.
7. The seeds must be returned to the manufacturer as soon as possible.

Barbara G. Orton *bwo*

February 7, 1983

BRACHYTHERAPY PROGRAM FOR SEALED SOURCES

Ir-192 SEEDS

POSTING AND SURVEY:

1. Fill out a "Caution Radioactive Materials" sign and attach it to the patient's room door.
2. Attach a "Caution Radioactive Materials" sticker to the front of the patient's door.
3. Place a copy of the form "Standing Instructions for Patients Receiving Iridium Implant Therapy" in the patient's chart.
4. Provide the nursing station with temporary monitoring badges and a copy of form RT-4.
5. A survey of the patient's room must be carried out by a qualified person and Form RT-3 "Brachytherapy Radiation Survey Record" filled out and placed in the patient's chart.

Barbara G. Orton

February 7, 1983

BRACHYTHERAPY PROGRAM FOR SEALED SOURCES

Ir-192 SEEDS

UNPACKING AND INSPECTION:

1. Before unpacking, obtain a survey meter from the medical physicist. Survey the external surface of the package immediately. The radiation level on the external surface of the package should not exceed 200 millirem per hour, or at three feet from the external surface it should not exceed 10 millirem per hour.
2. Unpack the seeds and retain all packing materials and slips.
3. Place seed container behind L block and count the seeds to confirm agreement with the packing slip.
4. Return the seeds to the container and be sure the container is labelled with a radiation tag and is dated.
5. Fill in log book and fill in items 1-9 in form RH-103 "Accountability and Inventory of Sealed Sources".

Barbara G. Orton

February 7, 1983

