

LORIN M. BROWN, M.D., P.C.

FAAOS, FACS

PEDIATRIC & ADOLESCENT ORTHOPEDIC SURGERY & SPORTS MEDICINE

April 20, 2007

U.S. Nuclear Regulatory Commission
Radioisotopes Licensing Division
Region III
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4352

RE: Amendment to NRC Radioactive Materials License #13-32269-01, Lorin M. Brown, M.D., P.C. in Munster, Indiana

Dear Sir or Madam:

We wish to amend the above referenced radioactive materials license to reflect the following changes:

1. We request that James Hatten be designated as the Radiation Safety Officer for this facility. His delegation of authority letter is attached. For Mr. Hatten's training and experience please reference Radioactive Materials License #13-15151-01, LaPorte Hospital in LaPorte, Indiana where he is currently listed as the Radiation Safety Officer.
2. James Hatten will be the Temporary Radiation Safety Officer to provide coverage for this license while providing training to Lynn Wiabel as the Radiation Safety Officer Delegate. This training and delegation should take approximately 6 months to complete.
3. Please add the following physicians as authorized user for the materials listed in 10 CFR 200:
 - a. Richard Shore, M.D.
 - b. Cynthia Rigsby, M.D.
 - c. Ellen Benya, M.D.
 - d. James Donaldson, M.D.

For training and experience of the above physicians please reference the attached letter from the Radiation Safety Officer/Chairman of the Broad Scope

OFFICE:

1950 45TH STREET, SUITE 200
MUNSTER, INDIANA 46321

OFFICE TELEPHONE NUMBERS

(219) 924-6544

FAX (219) 922-8502

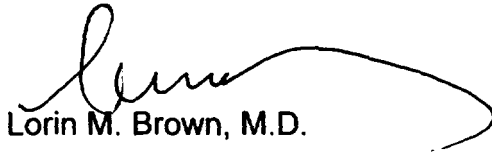
RECEIVED APR 25 2007

ATTENDING SURGEON - THE CHILDREN'S MEMORIAL HOSPITAL
ASSISTANT PROFESSOR OF CLINICAL ORTHOPEDIC SURGERY - NORTHWESTERN UNIVERSITY MEDICAL SCHOOL

Radioactive Materials License from Children's Memorial Institute for Education
and Research, IL-01165-01.

If you have any questions or need further information concerning this matter please
contact Lynn Wiabel, Nuclear Medicine Department, at (219) 924-5035 or James
Hatten, at (815) 370-6538.

Sincerely,

A handwritten signature in black ink, appearing to read 'Lorin M. Brown', with a long, sweeping horizontal flourish extending to the right.

Lorin M. Brown, M.D.

JCH/jjz

Enclosures

The Children's Memorial Institute for Education and Research
2300 Children's Plaza, Box 242, Chicago, Illinois 60614-3394
773.880.4663 Fax 773.880.6773



Children's Memorial Foundation

Children's Memorial Institute for
Education and Research

Children's Memorial
Home Health, LLC

March 19, 2007

Lorin M. Brown, M.D., P.C.
Pediatric and Adolescent Orthopedic Surgery
& Sports Medicine

Re: Radioactive Materials License No. IL-01165-01

Dear Ms. Wiabel:

This letter is to inform you that the following physicians are authorized users for Nuclear
Medicine Procedures and authorize Lynn Wiabel CNMT to do injections at Dr. Lorin Brown
M.D., P.C.'s office:

Richard Shore, M.D.
Cynthia Rigsby, M.D.
Ellen Benya, M.D.
James Donaldson, M.D.

If you have any questions, please do not hesitate to contact me at 773-880-4663.

Sincerely,

Glenn P. Sullivan
Radiation Safety Officer

Cc: Robert Romano
Children's Memorial

Jim Hatten
SAHIC



A Member of the
McGaw Medical Center of
Northwestern University

DEPARTMENT OF NUCLEAR SAFETY

RADIOACTIVE MATERIAL LICENSE

DIVISION OF RADIOACTIVE MATERIALS
1035 OUTER PARK DRIVE
SPRINGFIELD, ILLINOIS 62704

Permittee to the Illinois Radiation Protection Act and the rules and regulations in 32 Illinois Administrative Code promulgated thereunder, and as reliance on statements and representations hereinafter made by licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess and transfer radioactive material(s) listed herein, and to use such radioactive material(s) for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the Illinois Department of Nuclear Safety user or holder as a condition to any conditions specified in the license. This document confirms that the licensee has registered the sources of radiation listed below in accordance with Section 2 of the Radiation Installation Act.

LICENSEE
Children's Memorial Medical Center
2300 Children's Plaza
Chicago, IL 60614

LICENSE NUMBER
IL-01165-01

EXPIRATION DATE
December 31, 2007

AMENDMENT NUMBER
15

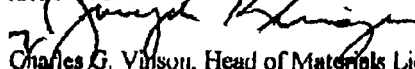
Attention: Philip V. Spina
Chief Administrative Officer, CMICR

In accordance with letter with attachments dated February 18, 2003, License Number IL-01165-01 is amended in its entirety. Previous amendments are void.

ITEM	RADIOISOTOPE	CHEMICAL NAME/ PHYSICAL FORM	MAXIMUM ACTIVITY* PER SOURCE	MAXIMUM POSSESSION LIMIT
A.	Any in 32 Ill. Adm. Code 335.2040	Any calibration or reference source identified in 32 Ill. Adm. Code 335.2040.		As needed
B.	Any in 32 Ill. Adm. Code 335.3010	Any radiopharmaceutical identified in 32 Ill. Adm. Code 335.3010.		1 Ci per isotope
C.	Any in 32 Ill. Adm. Code 335.4010	Any radiopharmaceutical identified in 32 Ill. Adm. Code 335.4010.		1 Ci per isotope
D.	Any in 32 Ill. Adm. Code 335.5010	Any radiopharmaceutical identified in 32 Ill. Adm. Code 335.5010.		1 Ci per isotope
E.	Any in 32 Ill. Adm. Code 335.7010	Any radioactive material identified in 32 Ill. Adm. Code 335.7010.		As needed
F.	Any in 32 Ill. Adm. Code 330.220(f)(1)	Prepackaged kits.		200 μ Ci per isotope

* μ Ci-microcurie, mCi-millicurie, Ci-Curie; MBq-Megabecquerel, GBq-Gigabecquerel, TBq-Terabecquerel; g-gram, μ g-microgram, kg-kilogram

APPROVED BY:


Charles G. Vinson, Head of Materials Licensing
11-47-0055

DATE

May 12, 2003

PAGE OF PAGES

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STATE OF ILLINOIS
DEPARTMENT OF NUCLEAR SAFETY
RADIOACTIVE MATERIAL LICENSE

ISSUE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
Children's Memorial Medical Center	IL-01165-01	15	December 31, 2007

ITEM	RADIOISOTOPE	CHEMICAL and PHYSICAL FORM	MAXIMUM ACTIVITY* PER SOURCE	MAXIMUM PERMISSION LIMIT
G.	Cs-137	Sealed Source - MDS Nordion Model C-3000 or C-3001	1524 Ci	3048 Ci
H.	Any radio- nuclide with Atomic Numbers 1-83 inclusive except as noted below:	Any	1 Ci per isotope	5 Ci
	H-3			3 Ci

AUTHORIZED USE:

- A. For use as calibration and reference sources.
- B. Any medical use identified in 32 Ill. Adm. Code 335.3010.
- C. Any medical use identified in 32 Ill. Adm. Code 335.4010.
- D. Any medical use identified in 32 Ill. Adm. Code 335.5010.
- E. Any medical use identified in 32 Ill. Adm. Code 335.6010.
- F. *In vitro* testing.
- G. For use in MDS Nordion Gammacell 1000 Elite (Type I) irradiator for the irradiation of medical specimens and research material.
- H. For research and development as defined in 32 Ill. Adm. Code 310.20, including in-vivo animal studies or instrument standardization and calibration.

CONDITIONS

*µCi-microcurie; mCi-millicurie; Ci-Curie; MHz-Megahertz; GHz-Gigahertz; TBq-Terabecquerel; g-gram; µg-microgram; kg-kilogram

APPROVED BY:	DATE:	PAGE OF PAGES
Charles G. Vinson, Head of Materials Licensing IL 473-0059	May 12, 2003	2 7

STATE OF ILLINOIS
DEPARTMENT OF NUCLEAR SAFETY
RADIOACTIVE MATERIAL LICENSE

LICENSEE	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
Children's Memorial Medical Center	IL-01165-01	15	December 31, 2007

1. A. Radioactive material shall be used at the licensee's facilities located at 2300 Children's Plaza, Chicago, Illinois, in accordance with statements, representations and procedures listed in other conditions of this license.
- B. Radioactive material listed in License Schedule Item H, shall be used at the licensee's facilities located at the Children's Memorial Institute for Education and Research (CMIER), 2300 Children's Plaza, Chicago, Illinois.
2. A. The use of radioactive material in or on humans shall be by a physician, as defined in 32 Ill. Adm. Code 310.20, who meets the training and experience requirements specified in Subpart J of 32 Ill. Adm. Code 335, and have been approved by the licensee's Radiation Safety Committee, Eugene Anandappa, M.D., Chairman.
- B. Radioactive materials for non-human use shall be used by, or under the supervision of, individuals approved by the licensee's Radiation Safety Committee, Eugene Anandappa, M.D., Chairman in accordance with statements, representations, and procedures listed in other conditions of this license.
- C. The licensee shall maintain documentation of all individuals designated to use or supervise the use of radioactive material under this license.
3. The Radiation Safety Officer for this license is Glenn P. Sullivan.
4. The licensee shall decontaminate or restrict access to each area described in 32 Ill. Adm. Code 335.2080(d) for which removable radioactive contamination is found to exceed 2000 dpm/100 cm². Confirmatory surveys must be performed to ensure that decontamination was effective or decay reduced the levels adequately. Records of each survey must contain the information specified in 32 Ill. Adm. Code 335.2080(f).
5. A. Each sealed source possessed under this license shall be tested for leakage and/or contamination as specified in 32 Ill. Adm. Code 340.410. Tests for leakage and/or contamination shall be performed by persons specifically licensed to provide such services.
- B. This license does not authorize analysis of leak test samples. However, the licensee is authorized to collect leak test samples for analysis by persons specifically authorized by the Department, an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission to perform such services.

²²Na, ²⁴Na, ²⁶Al, ³²P, ³³S, ³⁵S, ³⁶S, ⁴⁰K, ⁴⁵Ca, ⁴⁷Ca, ⁴⁸Ca, ⁴⁹Ca, ⁵¹Cr, ⁵²Cr, ⁵⁴Cr, ⁵⁹Fe, ⁶⁰Co, ⁶³Ni, ⁶⁴Ni, ⁶⁵Ni, ⁶⁷Ni, ⁶⁸Ni, ⁶⁹Ni, ⁷⁰Ni, ⁷²Ni, ⁷⁴Ni, ⁷⁶Ni, ⁷⁸Ni, ⁸⁰Ni, ⁸²Ni, ⁸⁴Ni, ⁸⁶Ni, ⁸⁸Ni, ⁹⁰Ni, ⁹²Ni, ⁹⁴Ni, ⁹⁶Ni, ⁹⁸Ni, ¹⁰⁰Ni, ¹⁰²Ni, ¹⁰⁴Ni, ¹⁰⁶Ni, ¹⁰⁸Ni, ¹¹⁰Ni, ¹¹²Ni, ¹¹⁴Ni, ¹¹⁶Ni, ¹¹⁸Ni, ¹²⁰Ni, ¹²²Ni, ¹²⁴Ni, ¹²⁶Ni, ¹²⁸Ni, ¹³⁰Ni, ¹³²Ni, ¹³⁴Ni, ¹³⁶Ni, ¹³⁸Ni, ¹⁴⁰Ni, ¹⁴²Ni, ¹⁴⁴Ni, ¹⁴⁶Ni, ¹⁴⁸Ni, ¹⁵⁰Ni, ¹⁵²Ni, ¹⁵⁴Ni, ¹⁵⁶Ni, ¹⁵⁸Ni, ¹⁶⁰Ni, ¹⁶²Ni, ¹⁶⁴Ni, ¹⁶⁶Ni, ¹⁶⁸Ni, ¹⁷⁰Ni, ¹⁷²Ni, ¹⁷⁴Ni, ¹⁷⁶Ni, ¹⁷⁸Ni, ¹⁸⁰Ni, ¹⁸²Ni, ¹⁸⁴Ni, ¹⁸⁶Ni, ¹⁸⁸Ni, ¹⁹⁰Ni, ¹⁹²Ni, ¹⁹⁴Ni, ¹⁹⁶Ni, ¹⁹⁸Ni, ²⁰⁰Ni, ²⁰²Ni, ²⁰⁴Ni, ²⁰⁶Ni, ²⁰⁸Ni, ²¹⁰Ni, ²¹²Ni, ²¹⁴Ni, ²¹⁶Ni, ²¹⁸Ni, ²²⁰Ni, ²²²Ni, ²²⁴Ni, ²²⁶Ni, ²²⁸Ni, ²³⁰Ni, ²³²Ni, ²³⁴Ni, ²³⁶Ni, ²³⁸Ni, ²⁴⁰Ni, ²⁴²Ni, ²⁴⁴Ni, ²⁴⁶Ni, ²⁴⁸Ni, ²⁵⁰Ni, ²⁵²Ni, ²⁵⁴Ni, ²⁵⁶Ni, ²⁵⁸Ni, ²⁶⁰Ni, ²⁶²Ni, ²⁶⁴Ni, ²⁶⁶Ni, ²⁶⁸Ni, ²⁷⁰Ni, ²⁷²Ni, ²⁷⁴Ni, ²⁷⁶Ni, ²⁷⁸Ni, ²⁸⁰Ni, ²⁸²Ni, ²⁸⁴Ni, ²⁸⁶Ni, ²⁸⁸Ni, ²⁹⁰Ni, ²⁹²Ni, ²⁹⁴Ni, ²⁹⁶Ni, ²⁹⁸Ni, ³⁰⁰Ni, ³⁰²Ni, ³⁰⁴Ni, ³⁰⁶Ni, ³⁰⁸Ni, ³¹⁰Ni, ³¹²Ni, ³¹⁴Ni, ³¹⁶Ni, ³¹⁸Ni, ³²⁰Ni, 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&
SPORTS MEDICINE

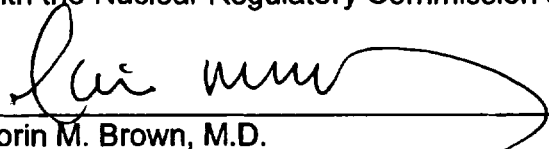
Delegation of Authority

Memo To: Radiation Safety Officer

From: Lorin M. Brown, M.D.

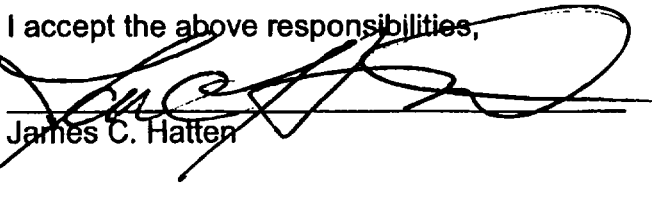
Subject: Delegation of Authority

You, James C. Hatten, have been appointed Radiation Safety Officer and are responsible for ensuring the safe use of radiation. You are responsible for managing the radiation protection program; identifying radiation protection problems; initiating, recommending, or providing corrective actions; verifying implementation of corrective actions; stopping unsafe activities; and ensuring compliance with the rule. You are hereby delegated the authority necessary to meet those responsibilities, including prohibiting the use of radioactive material by employees who do not meet the necessary requirements and shutting down operations where justified by radiation safety. You are required to notify management if staff do not cooperate and do not address radiation safety issues. In addition, you are free to request amendment changes and raise issues with the Nuclear Regulatory Commission at anytime.



Lorin M. Brown, M.D.

I accept the above responsibilities,



James C. Hatten

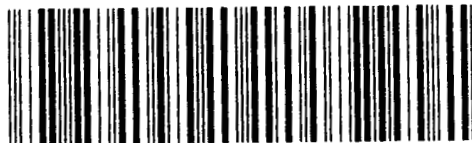
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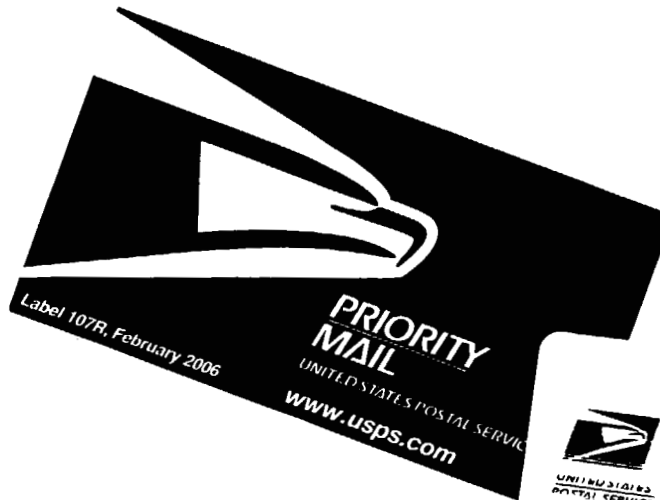
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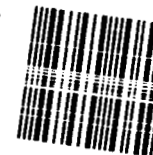
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