

LORIN M. BROWN, M.D., P.C.
FAAOS, FACS, FAAP
PEDIATRIC & ADOLESCENT ORTHOPEDIC SURGERY
&
SPORTS MEDICINE

January 22, 2008

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

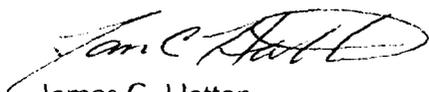
Dear Sir or Madam:

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

1. Please add Eugene Anandappa, M.D. as an authorized user for the materials listed under 10 CFR 35.200. For Dr. Anandappa's training and experience please reference the attached letter from the Radiation Safety Officer of Broad Scope Radioactive Material License #IL-01165-01, Children's Memorial Medical Center, Chicago, IL.
2. Please add Jon Randell Jester, M.D. and Steven R. Nudo, M.D. as an authorized users for the materials listed under 10 CFR 35.200. For the training and experience of these physicians please reference the attached Radioactive Material License #IL-02177-01, Future Diagnostics Group Joliet, LLC, Joliet, IL.

We hope this information is sufficient to grant our request for amendment. If you have questions or need additional information concerning this request please contact me at 800-383-0468.

Sincerely,



James C. Hatten
Radiation Safety Officer

/jms

Enclosures

RECEIVED JAN 25 2008

OFFICE:
1650 45TH STREET
MUNSTER, INDIANA 46321

OFFICE TELEPHONE NUMBERS
(219) 924-6544 (708) 895-9275
FAX (708) 895-6753

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



Children's Memorial Research Center

2300 Children's Plaza, Box 205
Chicago, Illinois 60614-3394
www.childrensmrc.org

*Affiliated with
Northwestern University's
Feinberg School of Medicine*

January 22, 2008

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:

Eugene Anandappa, M.D.

If you have any questions, please do not hesitate to contact me at 773-755-6312.

Sincerely,

Glenn P. Sullivan
Radiation Safety Officer

Cc: Robert Romano
Children's Memorial

DEPARTMENT OF NUCLEAR SAFETY

RADIOACTIVE MATERIAL LICENSE

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

Pursuant to the Illinois Radiation Protection Act and the rules and regulations in 32 Illinois Administrative Code promulgated thereunder, and in reliance on statements and representations heretofore 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 now or hereafter in effect and in 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 Installations Act.

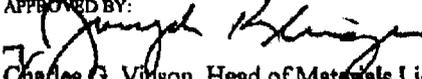
LICENSEE	LICENSE NUMBER	EXPIRATION DATE
Children's Memorial Medical Center 2300 Children's Plaza Chicago, IL 60614	IL-01165-01	December 31, 2007
	AMENDMENT NUMBER	
	15	

Attention: Philip V. Spina
Chief Administrative Officer, CMTER

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 and/or 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:	DATE	PAGE of PAGES
 Charles G. Vinson, Head of Materials Licensing IL 47-0058	May 12, 2003	1 7

STATE OF ILLINOIS
DEPARTMENT OF NUCLEAR SAFETY
RADIOACTIVE MATERIAL LICENSE

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

ITEM	RADIONUCLIDE	CHEMICAL and/or PHYSICAL FORM	MAXIMUM ACTIVITY* PER SOURCE	MAXIMUM POSSESSION 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 335.7010.
- 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

*[Ci-microcurie; mCi-milllicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; µg-microgram; kg-kilogram]

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Charles G. Vinson, Head of Materials Licensing	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 (CMIBR), 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.

mCi-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; µg-microgram; kg-kilogram
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Charles G. Vinson, Head of Materials Licensing
IL-473-0059

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STATE OF ILLINOIS
ILLINOIS EMERGENCY MANAGEMENT AGENCY
DIVISION OF NUCLEAR SAFETY

RADIOACTIVE MATERIAL LICENSE

1035 OUTER PARK DRIVE
SPRINGFIELD, ILLINOIS 62704

Pursuant to the Illinois Radiation Protection Act and the rules and regulations in 32 Illinois Administrative Code promulgated hereunder, and in reliance on statements and representations heretofore made by the 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 Agency now or hereafter in effect and to any conditions specified in the license.

<u>LICENSEE</u>	<u>LICENSE NUMBER</u>	<u>EXPIRATION DATE</u>
Future Diagnostics Group Joliet, LLC 254 Republic Avenue Joliet, IL 60435	IL-02177-01	January 31, 2008

AMENDMENT NUMBER
2

Attention: Jon Randell Jester, M.D.
Radiation Safety Officer

In accordance with letter dated December 13, 2004, License Number IL-02177-01 is amended in its entirety. Previous amendments are void.

ITEM	RADIONUCLIDE	CHEMICAL and/or 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.		As needed
C	Any in 32 Ill. Adm. Code 335.4010	Any radiopharmaceutical identified in 32 Ill. Adm. Code 335.4010, excluding gases and generators.		As needed
D	Y-90	Ibritumomab Tiuxetan (Zevalin)	32 mCi	32 mCi

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

Bq-Becquerel; mCi-milliecurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; µg-microgram; kg-kilogram

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Charles G. Vinson, Supervisor of Materials Licensing

January 19, 2005

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SDNS,PLM-004.02 (4/91)

**STATE OF ILLINOIS
TEMA DIVISION OF NUCLEAR SAFETY
RADIOACTIVE MATERIAL LICENSE**

ISSUER	LICENSE NUMBER	AMENDMENT NUMBER	EXPIRATION DATE
Structure Diagnostics Group Joliet, LLC	IL-02177-01	2	January 31, 2008

CONDITIONS

1. Radioactive material shall be used only at the licensee's facilities located at 254 Republic Avenue, Joliet, Illinois in accordance with statements, representations and procedures listed in other conditions of this license
2. Radioactive material is authorized for use by, or under the supervision of, the following individual(s) for the materials and uses indicated:

Arif Azam, M.D.	A., B. and C.
Robert T. Bockel, M.D.	All
David C. Choe, M.D.	A., B. and C.
Danial A. Frankel, M.D.	All
- Jon Randell Jester, M.D.	A., B. and C.
Michael A. Micaletti, M.D.	A., B. and C.
- Steven R. Nudo, M.D.	A., B. and C.
Gragory J. Ostrowski, D.O.	All
Franklin Tan, M.D.	A., B. and C.

The Radiation Safety Officer for this license is Jon Randell Jester, M.D.

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. This monitoring must be performed to ensure that decontamination was effective or decay reduced the levels adequately. Records of monitoring 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 Agency, an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission to perform such services
6. Except as otherwise specifically provided by this license, radioactive material to be administered to humans shall be procured in prepackaged, pre-calibrated form from a supplier who manufactures, labels, packages, or repackages the product in accordance with all applicable state and federal laws and rules related to appropriate pharmaceutical controls for assay, identity, quality, purity, sterility and nonpyrogenicity

Bq-Becquerel; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; µg-microgram; kg-kilogram

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STATE OF ILLINOIS
 IEMA DIVISION OF NUCLEAR SAFETY
 RADIOACTIVE MATERIAL LICENSE

<u>TENSEE</u>	<u>LICENSE NUMBER</u>	<u>AMENDMENT NUMBER</u>	<u>EXPIRATION DATE</u>
ature Diagnostics Group Joliet, LLC	IL-02177-01	2	January 31, 2008

7. Investigational New Drugs (IND) labeled with radioactive material shall not be used in human beings until the individual user has filed with the Federal Food and Drug Administration the required documentation in accordance with 21 CFR 312.1, and the exemption has not been terminated.
8. The licensee is authorized to receive, possess and transfer depleted uranium in amounts not greater than 999 kg for use as shielding material.
9. Notwithstanding the distribution requirements of 32 Ill. Adm. Code 335.1090, the licensee may receive, possess, and use naturally-occurring or accelerator-produced radioactive material (NARM) specifically authorized by this license and distributed by a supplier located in a non-Licensing State.
10. Sealed sources containing radioactive material shall not be opened.
11. The licensee may use the Calcorp, Inc. "Calicheck" device or the Atomic Products Corp. "Lineator" device for linearity tests of their dose calibrator(s). Such tests shall be performed in strict accordance with the procedures contained in the device manufacturer's instruction manual. A copy of the appropriate device manufacturer's instruction manual shall be maintained at the licensee's facility if one of these devices is used.

The licensee is authorized to store waste containing, or comprised of, radioactive material with a physical half-life of less than 90 days for "decay-in-storage" before disposal with the following provisions:

- A. Radioactive waste to be disposed of shall be held for decay a minimum of ten half-lives.
- B. Pursuant to 32 Ill. Adm. Code 340.510(a) and (b), radiation surveys shall be performed prior to disposal of the waste to ensure that the waste's radioactivity cannot be distinguished from background radiation levels. The package/container surface shall be surveyed with an appropriate radiation detection survey instrument set on its most sensitive scale, with no interposed shielding between the detector and the waste, in a low background radiation environment. Records of monitoring shall be maintained to include: date of disposal; date placed in storage; manufacturer, model and serial number of the survey instrument used; background radiation levels; measured radiation levels; and identity of the individual performing the monitoring. All radiation labels shall be removed or obliterated.
- C. Nothing in this condition relieves the licensee from complying with other applicable federal, state, and local regulations governing any other toxic or hazardous property of these materials.

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

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Charles G. Vinson, Supervisor of Materials Licensing

January 19, 2005

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FORM HL M-004-02 (8/91)

**STATE OF ILLINOIS
IEMA DIVISION OF NUCLEAR SAFETY
RADIOACTIVE MATERIAL LICENSE**

<u>NAME</u>	<u>LICENSE NUMBER</u>	<u>AMENDMENT NUMBER</u>	<u>EXPIRATION DATE</u>
Core Diagnostics Group Joliet, LLC	IL-02177-01	2	January 31, 2008

13. The licensee shall have radiation survey instrument(s) used to establish compliance with 32Ill. Adm. Code calibrated by a person specifically authorized by the Agency, an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission to perform such services. Records of radiation survey instrument calibrations shall be maintained for Agency inspection.

14. Except as specifically provided otherwise by the license, the licensee shall possess and use radioactive material described in all schedules of this license in accordance with statements, representations and procedures contained in, referenced in, or enclosed with the documents listed below. The regulations contained in 32 Ill. Adm. Code: Chapter II, Subchapters b and d shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations. The most recent statements, representations and procedures listed below shall govern if they conflict with previously submitted documents.
 - A. Application dated September 3, 2002.
 - B. Letter with attachments dated December 10, 2002.
 - C. Letters dated January 21, 2003 and January 5, 2005.

REV:MEB/je

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

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200 North Cedar Road
New Lenox, Illinois 60451



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Region III
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