

**Veterans  
Administration**

April 10, 1985

In Reply Refer To: 589/115

U. S. Nuclear Regulatory Commission,  
Region III  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

ATTN: Medical Licensing

SUBJ: Kansas City Veterans Administration Medical Center,  
License No. 24-00496-06, Request for Amendment #53

1. We wish to make the following additions and changes to our  
license:

a. Paragraph 6, (Page 3, Amendment 51):

Increase the possession limit of GG (Iodine-125) and  
HH (Iridium-192) from 200 millicuries to 500 millicuries,  
each. Our Radiotherapists have asked for this change, in  
the remote case of a medical need for an amount above  
200 millicuries and the possibility of two cases being  
performed at the same time.

b. Add to Paragraph 6, (Page 3, Amendment 51):

II. Cesium-137	II. Seeds that have been	II. 500 mCi
	manufactured, labeled,	
	packaged and distributed	
	in accordance with a	
	specific license issued	
	pursuant to Section 32.74	
	of 10 CFR Part 32 or a	
	specific license issued	
	to the manufacturer by an	
	Agreement State pursuant	
	to equivalent State	
	regulations.	

c. Paragraph 9, (Page 4, Amendment 51): Add:

II. Interstitial treatment of cancer.

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REGION III

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24-00496-06 PDR

CONTROL NO. 78766

April 10, 1985

U. S. Nuclear Regulatory Commission  
Glen Ellyn, Illinois 60137

d. Condition 12, "Users", (Page 1, Amendment 52), Add  
along side the first user, Dr. Hamilton.

"Joe R. Kimmel, M.D., Ph.D.      Items G through Z., EE.  
and FF. for non-human use."

Dr. Kimmel is Dr. Hamilton's direct supervisor, and  
Dr. Kimmel is the Associate Chief of Staff for our  
"Research" Section. He is a member of the "Radiation  
Safety Committee". He approves, and directs each new  
radiation "Research Project" at this Medical Center. All  
routine Radiation Surveys (Reg. Guides 8.18 and 8.23) are  
conducted under his jurisdiction, as are inventory reports  
and personnel monitoring information.

Dr. Kimmel: (A.B., De Pauw University, 1943; M.D., John  
Hopkins School of Medicine, 1947; Ph.D., (Biochemistry),  
University of Utah, 1954.) See attached C.V. Dr. Kimmel's  
NRC Supplement A is attached, showing basic radioisotope  
training at Oak Ridge, Tennessee. He has continued working  
directly with these radioisotopes, including his most  
recent past assignment at Kansas University. (License No.  
18-C054-02, phone: 913-588-6126). His C.V. shows a total  
of 75 publications in this field. Dr. Kimmel's name  
should be listed on the KCVAMC license as "user".

e. Change Condition 12, (Page 2, Amendment 52):

"Eashwer K. Reddy, M.D.      Iodine-125 as seeds for  
interstitial treatment of cancer.  
  
Indium-192 as seeds encased in  
nylon ribbon for interstitial  
treatment of cancer.  
  
Cesium-137 encased in needles  
and applicator cells for  
topical, interstitial, and  
intracavitary treatment of  
cancer."

Dr. Reddy, a Radiation Therapist at Kansas University  
(University of Kansas Medical Center State License  
#18-C054-02) routinely conducts 20 to 25 of these Medical  
Procedures per year at Kansas University, using these  
isotopes. He is Board Certified by the American Board of  
Radiology in Therapeutic Radiology. (See attached photo-  
stat of Certification). He is listed in "American

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Association of Therapeutic Radiologists", 1983, and the "American College of Radiology". Dr. Reddy was previously authorized only for the use of Iodine-125 at KCVAMC, (Amendment #46, January 4, 1982). Dr. Reddy will perform I-125, Cs-137, or Ir-192 Medical Procedures only at KCVAMC. (See enclosed NRC Supplement A). No radioactive seeds will be maintained, or stored, at this Medical Center. All Radiation Safety requirements listed in U.S. Regulatory Guide 10.8, Appendix K & L, will be adequately conducted and recorded. These instructions are written in KCVAMC "Radiation Safety Instruction-5", entitled "Therapeutic Use of Radiopharmaceuticals and Sealed Sources", (March 1, 1985, Rev. 5).

The KCVAMC Nursing Instructor, a member of the "Radiation Safety Committee", has updated and distributed "Nursing Procedures". Personnel monitoring results of the film badges assigned to the nursing staff of our most recent Iridium-192 Medical Procedure (158 millicuries, 3,070 Rad, 20½ hours) indicated ZERO radiation exposure received by the nursing staff. Two rooms at this Medical Center are now in the process of being lined with lead.

f. License Condition 20, (Page 8, Amendment 51): Change the words "Iridium-192 seeds" to read "Iridium-192, Cesium-137, or Iodine-125 seeds".

g. Condition 12, (Page 1, Amendment 52): Delete the name of Charles R. Hartman, M.D. Dr. Hartman has resigned.

h. Condition 12, (Page 3, Amendment 52): Delete the name of George S. Lerman, M.D. Dr. Lerman has resigned.

i. Condition 23, (Page 5, Amendment 52): Add the date of this letter, "April 10, 1985".

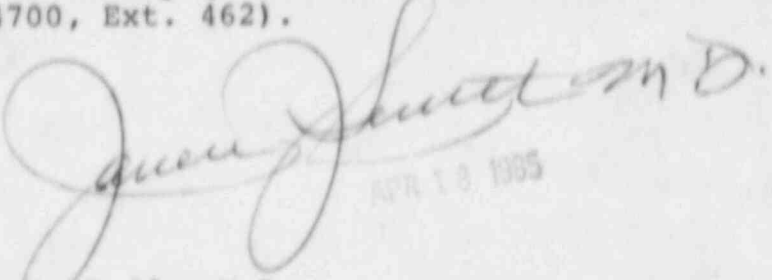
2. This Amendment Request No. 53 has been approved by the Radiation Safety Committee. Please refer any questions to Mr. Carroll D. Hampleman, RSO, (816-861-4700, Ext. 462).

  
JONATHAN F. PITTS  
Director

Enclosures:

1. Supplement A - Eashwer K. Reddy, M.D.
2. Certification photostat: Eashwer K. Reddy, M.D.
3. Supplement A - Joe R. Kimmel, M.D., Ph.D.
4. Curriculum Vitae - Joe R. Kimmel, M.D., Ph.D.

3.

  
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JONATHAN F. FITTS  
Director

CONTROL NO. 78166

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2. Certification photostat: Eashwer K. Reddy, M.D.
3. Supplement A - Joe R. Kimmel, M.D., Ph.D.
4. Curriculum Vitae - Joe R. Kimmel, M.D., Ph.D.

**TRAINING AND EXPERIENCE  
AUTHORIZED USER OR RADIATION SAFETY OFFICER**

1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER  Eashwer K. Reddy, M.D.		2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE		
3. CERTIFICATION				
SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C		
American Board of Therapeutic Radiology	Therapeutic Radiology	June 1975		
4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES				
FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING		
		LECTURE/ LABORATORY COURSES (Hours) C	SUPERVISED LABORATORY EXPERIENCE (Hours) D	
a. RADIATION PHYSICS AND INSTRUMENTATION	Equivalent Requirements			
b. RADIATION PROTECTION	For American Board of Radiology has been met			
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY				
d. RADIATION BIOLOGY				
e. RADIOPHARMACEUTICAL CHEMISTRY				
5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)				
ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
Co-60	10000 Ci	Residency, Memorial Hospital; New York	1971 - 1975	Clinical
Cs-137	500 mCi			
Ir-192	500 mCi			
I-125	100 mCi	University of Kansas Medical Center	1975 to present	Clinical
P-32	50 mCi			

CPH  
4/85

# The American Board of Radiology

Organized through the cooperation of the  
American College of Radiology, the American Roentgen Ray Society,  
the American Institute of Radiology, the Radiological Society of North America,  
the Union of Radiology of the American Medical Association  
and the American Society of Therapeutic Radiologists  
to certify radiologists that

**Fashner Kanthala Reddy, M.D.**

has passed an accepted course of graduate study  
and clinical work, has met certain standards and qualifications and  
has passed the examinations conducted under the authority of

the American Board of Radiology

On this seventh day of June, 1975

thereby demonstrating to the satisfaction of the Board  
that he is qualified to practice the specialty of

**Therapeutic Radiology**

Robert H. Cooley  
President

C. Allen Lord  
Secretary



TRAINING AND EXPERIENCE  
AUTHORIZED USER OR RADIATION SAFETY OFFICER

## 1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER

Joe R. Kimmel, M.D., Ph.D.

2. STATE OR TERRITORY IN  
WHICH LICENSED TO  
PRACTICE MEDICINE

## 3. CERTIFICATION

SPECIALTY BOARD  
ACATEGORY  
BMONTH AND YEAR CERTIFIED  
CAmerican Society Biological  
Chemists

## 4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES

FIELD OF TRAINING  
ALOCATION AND DATE(S) OF TRAINING  
B

## TYPE AND LENGTH OF TRAINING

LECTURE/  
LABORATORY  
COURSES  
(Hours)  
CSUPERVISED  
LABORATORY  
EXPERIENCE  
(Hours)  
Da. RADIATION PHYSICS AND  
INSTRUMENTATIONOak Ridge, Tenn., Feb. 1951  
Isotope techniques course  
Included training in  
categories b, c, d.

160

## b. RADIATION PROTECTION

c. MATHEMATICS PERTAINING TO  
THE USE AND MEASUREMENT  
OF RADIOACTIVITY

## d. RADIATION BIOLOGY

e. RADIOPHARMACEUTICAL  
CHEMISTRY

## 5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)

## ISOTOPE

## MAXIMUM AMOUNT

## WHERE EXPERIENCE WAS GAINED

## DURATION OF EXPERIENCE

## TYPE OF USE

<sup>14</sup>C

5 mCi

Univ. of Utah

4 years

biochemical  
research<sup>131</sup>I

1-2 mCi

Univ. of Utah  
Univ. of Kansas Medical  
School

5 years

Radioimmunoassay  
(RIA)<sup>125</sup>I

5 mCi

Univ. of Kansas Medical  
School

15 years

RIA

## Curriculum Vitae

Joe R. Kimmel

Born: May 3, 1922, DuQuoin, Illinois.

SS# 333-18-1381

Degrees: A.B., DePauw University, 1943.

M.D., Johns Hopkins School of Medicine, 1947.

Ph.D., (Biochemistry) University of Utah, 1954.

## Post-Doctoral Trainings:

Rotating Intern, Salt Lake County General Hospital, 1947-48.

Intern in Medicine, Salt Lake County General Hospital, 1948-49.

American Cancer Society Fellow (Biochemistry, University of Utah),  
1949-50; 1952-54.Medical Resident and Assistant Director, Metabolic Research Facility,  
U.S. Naval Hospital, Oakland, California, 1950-52.

## Positions Held:

Research Instructor, Biochemistry, University of Utah, College of  
Medicine, 1954-55.Assistant Research Professor of Biochemistry, University of Utah,  
College of Medicine, 1955-59.Associate Research Professor of Biochemistry, University of Utah,  
College of Medicine, 1959-60.Associate Professor of Biochemistry, University of Utah, College of  
Medicine, 1960-62.Associate Professor of Biochemistry and Pediatrics, University of  
Utah, College of Medicine, 1962-64.Professor of Biochemistry, Director of McIlvain Laboratories, Kansas  
University Medical Center, 1964 to present.Associate Dean for Faculties and Academic Affairs, Kansas University  
Medical Center, 1970-74.Associate Chief of Staff/Research, Veterans Administration Medical  
Center, Kansas City, Missouri, 1983 to present.

## Membership in Societies:

Sigma Xi

American Society of Biological Chemists

American Association for Advancement of Science

American Association of University Professors

Alpha Omega Alpha

Endocrine Society

## Awards:

Henry Strong Denison Scholar, Johns Hopkins University School of  
Medicine, 1946-47.

Research Career Development Award - U.S. Public Health Service, 1959-64.

Classes of 1972-73 Teaching Excellence Award 1970.

Jayhawker M.D. Award, 1971.

### Teaching Experience:

General Biochemistry for medical students - Lectures on protein chemistry, nitrogen metabolism, and biochemical genetics.

Advanced Biochemistry - I have been a major participant in the following courses for graduate students offered by the Biochemistry Department:

- Endocrinology
- Metabolism
- Laboratory Techniques
- Protein Chemistry

Correlation Clinics - These were given both at the University of Utah and at the University of Kansas. They were a series of clinics designed to demonstrate to first year medical students that biochemistry can actually be applied at a clinical level.

### Administrative Experience:

Department of Biochemistry, University of Utah and University of Kansas. Medical Curriculum Committee, Graduate Student Selection Committees, Student Advisory Committees, Promotion Advisory Committees.

Medical School Committees, University of Utah and University of Kansas. Education Committee (Chairman 1971-75), Medical Student Admissions Committee, Library Committee, Faculty Steering Committee, Academic Committee (special programs). Committee to draft original Faculty Assembly By-laws at KUMC (appointed by Dr. G. Wolf) 1969-71. All KU Committee on patent and copyright policy 1972-74.

### Current Research Interests:

Aspects of protein structure which are essential for function. Pancreatic hormones, insulin, glucagon, somatostatin, and pancreatic polypeptide. The latter peptide hormone was discovered in my laboratory.

Genetic abnormalities in human protein.

Research has had continuous support from the National Institute of Health since 1961.

### Civic Activities:

Member, Board of Directors Kaw Valley Division, Kansas Heart Association, 1969-79, President, 1977-78.

Member, Board of Directors Kansas City Youth Symphony, 1973-81, President 1979-81

# BIBLIOGRAPHY

1. Binkley, F., Fujii, S. and Kimmel, J.R.: Metabolism of Glutathione, II. Determination of Glutathione and Products of its Hydrolysis in Blood (1950) *J. Biol. Chem.* 186, 159-162.
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14. Kimmel, J.R., and Smith, E.L.: The Properties of Papain (1957) *Advances in Enzymol.* 18.

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25. Margoliash, E., Kimmel, J.R., Hill, R.L. and Schmidt, W.R.: Amino Acid Composition of Horse Heart Cytochrome (1962) *J. Biol. Chem.* 237, 2148.
26. Kimmel, J.R., Kato, G.K., Paiva, A.C.M. and Smith, E.L.: Tryptic Digest of Papain. I. Isolation and Sequence of Some Peptides from the Oxidized Protein. (1962) *J. Biol. Chem.* 237, 2525.
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