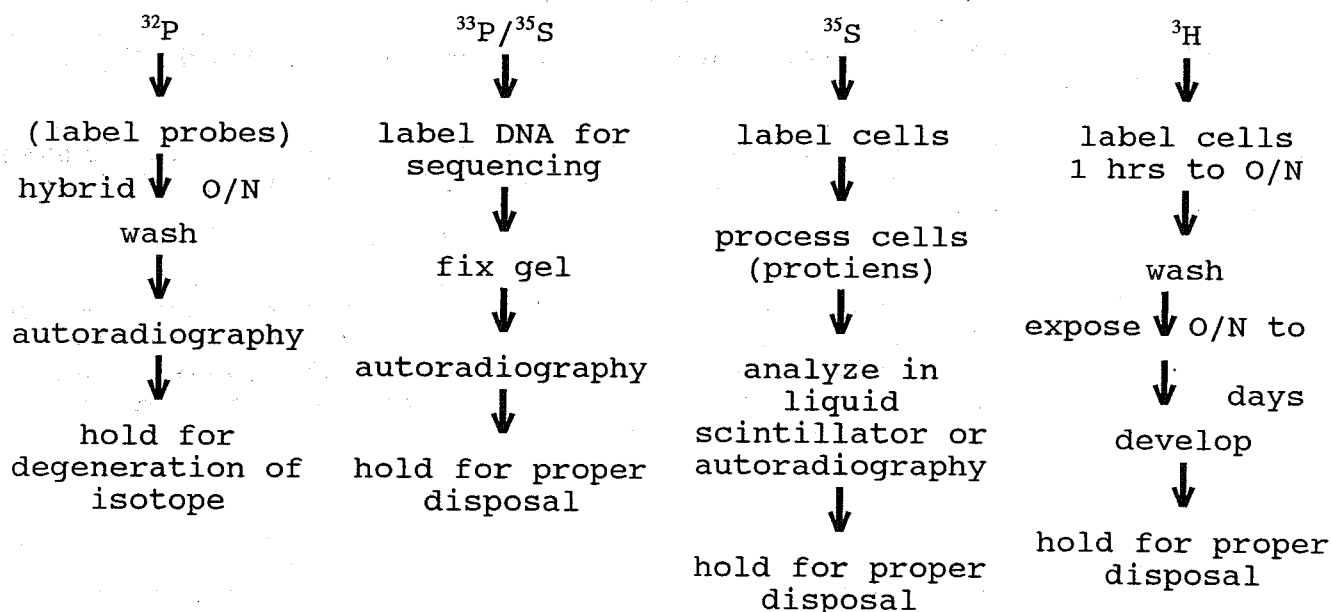


HEALTH PHYSICS RADIOACTIVE PROTOCOL

a. Principal User Kulesh, David A. Capt, USAF, BSC, Ph.D.	b. Telephone Number (202) 576-2868	c. Authorization Number 693
d. Coworkers Loraine H. Anderson Maj, USAF, BSC	e. Trainees	f. Technicians Bernard Wilson, SSgt, USAF Ericka J. Otis, Sgt, USAF
g. Radioisotope(s) ^{32}P , ^{33}P , ^{35}S , ^3H	h. Physical/Chemical Form ^{32}P -dNTP, ^{33}P -dNTP, ^{35}S -methionine ^{35}S -dNTP, ^3H -thymidine	i. Maximum Quantity per Experiment (mCi) 1mCi
j. Title of Project Oxygen tension effects on wound healing molecular mechanisms		
k. Beginning Date 15 Jun 93	l. Ending Date 15 Jun 95	m. Repetitive Study Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

n. Life Cycle of Radioisotope Utilized for Research Procedure (Use block/flow diagram to show what, how, where, how much isotope is used from receipt to disposal; emphasize major steps (incubate over night, run gel, autoradiography, etc.), including kinds and volumes of waste generated.)



o. Labeling and Transport of Radioactive Material: All radioactive solutions, tissues, animals and waste will be identified by proper labels. Transport of radioactive material between authorized work areas will be conducted in a manner that precludes the spread of contamination and inadvertent exposure of non-participating personnel.

APPROVED BY
RCC
AUG 16 1990

JUL 13 1990

This Application is given
interim approval until the
next meeting of the RCC
which is scheduled for: **AUG 9**

APPLICATION FOR AUTHORIZATION TO USE RADIOACTIVE MATERIAL -- NON-HUMAN USE

1. APPLICATION FOR:	<input checked="" type="checkbox"/> NEW AUTHORIZATION 693	<input type="checkbox"/> RENEWAL OF AUTHORIZATION NUMBER	<input type="checkbox"/> AMENDMENT TO AUTHORIZATION NUMBER
2. APPLICANT'S NAME (Last, First, MI) (Principal User) Anderson, Lorraine H		3. APPLICANT'S MAILING ADDRESS (Include Organization) AFIP/CPW-P Bldg 54, Rm G075 Division of Altitude & Hyperbaric Physiology	
TELEPHONE NUMBER 576-2868			

(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)

4. List all CO-WORKERS Harrison, Charles M, Maj Marzella, Louis Yin, Gu-En	5. List all TRAINEES	6. List all TECHNICIANS
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7. LOCATIONS WHERE MATERIAL WILL BE USED: (Building and Associated Rooms)

Bldg 54, G014 + G075

8. LOCATIONS WHERE MATERIAL WILL BE STORED: (Building and Associated Rooms)

Bldg 54 G014

9. RADIOACTIVE WASTE DISPOSAL SINK IN ROOM:

D. RADIOACTIVE MATERIAL DATA

A. RADIOISOTOPE	B. CHEMICAL AND/OR PHYSICAL FORM (Sealed or Unsealed)	C. POSSESSION LIMIT	D. USE
Sr - 90	Microspheres, Unsealed	0.5 m Ci	Blood Flow Studies
Sr - 85	"	"	"
Ce - 141	"	"	"

DATE: 3 July 90

Authorization Review Process
Branch Input

Auth # New (693)

	A	B	COMMENTS
1	X	2PMB	T+E for Harrison, Called 3 July / received 5 July 90
2	NA	2PMB	
3	X	2PMB	
4	NA	2PMB	6-014 on 645 / transferred to 693 from 645
5	NA	2PMB	
6	X	2PMB	
7	X	2PMB	538's & 40-10 & Terms & Cond. being forwarded
8	X	2PMB	
9	NA	2PMB	
10	X	198	
11	X	198	
12			
13			
14			
15			

Index of Numbers and Symbols used above:

- (1) - Forms (WRAMC 1661R, 1662R, 1643) (Completed/typed)
- (2) - Protocol (Required for: 3-H, 32-P, 125-I, 131-I, and all others deemed necessary by - amounts, activity, or use. (Reference NBS Handbook #92)
- (3) - Isotopes (within limits for NRC License/personnel qualifications)
- (4) - OPS Branch room pre-survey
- (5) - OPS Branch room final survey
- (6) - TS Branch instrumentation assignment
- (7) - Training - WRAMC Form 538 (Completed by users annually)
- (8) - Training - WRAMC Form 1643 (Training and Experience Form)
- (9) - Fort Detrick - Auth#'s 541, 618, 619, 620, 621
- (10) - TS Branch Bioassay
- (11) - TS Branch Personnel dosimetry

- (A) - (X) when complete, (O) when pending, and () when pending completed
- (B) - Initial of branch representative when complete or pending issues are resolved
- (C) - Comments

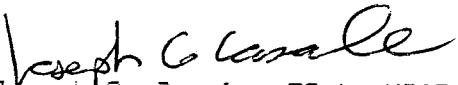
AFIP/CPW-P (6-2868)

02 Aug 90

MEMORANDUM FOR: Health Physics

SUBJECT: Health Physics Survey

The Division of Altitude and Hyperbaric Physiology located at AFIP will not be using any Radioactive materials until Jan 91. We are awaiting approval and funding of protocols from the US Air Force. When the Division starts using Radioactive materials we will contact you.


Joseph G. Casale, TSgt, USAF
NCOIC, Division of Altitude and
Hyperbaric Physiology

HSHL-H-HP (385-11h) 1st End

LTC Myers/ab/427-5104

Health Physics Officer, WRAMC

SEP 11 1990

FOR Hyperbaric Physiology, ATTN: Loraine H. Anderson, CPT

Authorization 693 put on administrative hold status per phone conversation with CPT Anderson 16 August 90.

APPROVED BY
RCC

NOV 15 1990

DATE



PETER H. MYERS
LTC, MS
Health Physics Officer

This Application is given
interim approval until the
next meeting of the RCC
which is scheduled for: NOV 90

DATE: 16 AUG 90

Authorization Review Process
Branch Input

Auth # 693

	A	B	COMMENTS
1	X	ZMB	Admin. Hold
2	NA	ZMB	...
3	NA	ZMB	
4	NA	JK	
5	NA	JK	
6	NA	JK	
7	NA	ZMB	
8	NA	ZMB	
9	NA	ZMB	
10	NA	JK	
11	NA	JK	
12			
13			
14			
15			

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DEPARTMENT OF DEFENSE
ARMED FORCES INSTITUTE OF PATHOLOGY
WASHINGTON, DC 20306-6000

REPLY TO
ATTENTION OF

FROM: AFIP/CPW-P

15 Mar 91

MEMORANDUM FOR: Health Physics

SUBJECT: Radiation Training

1. Dr Louis Marzella and Dr. Gu-En Yen will not attend the Introductory Principles of Radiation Protection Course. Their protocol has not yet been funded so they are still located at University of Maryland in Baltimore.
2. Please remove Dr Charles M. Harrison as a coworker under our authorization (693) as he will no longer be working with us. As a result, he will not attend the IPRP course in May.
3. We wish to continue the administrative hold of our authorization, pending receipt of funding.

LORAIN H. ANDERSON, Capt, USAF, BSC
Associate Chief, Division of Altitude
and Hyperbaric Physiology

HSHL-H-HP (385-11h) 1st End

Mr. David W. Burton/ab/427-5107

Health Physics Officer, WRAMC

MAR 26 1991

FOR: Division of Altitude and Hyperbaric Physiology,
ATTN: CPT Loraine Anderson

PETER H. MYERS
LTC, MS
Health Physics Officer

This Application is given
interim approval until the
next meeting of the RCC
which is scheduled for: JUNE 91

APPROVED BY
RCC

MAY 23 1991

DATE

DATE: 19 MAR 91

Authorization Review Process
Branch Input

Auth # 69B

	A	B	COMMENTS
1	X	JWB	
2	NA	JWB	
3	NA	JWB	
4	NA	AB	
5	NA	AB	
6	NA	AKC	
7	NA	JWB	
8	NA	JWB	
9	NA	JWB	
10	NA	AKC	
11	NA	AKC	
12			
13			
14			
15			

Index of Numbers and Symbols used above:

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- (C) - Comments

SGRD-UWI-B

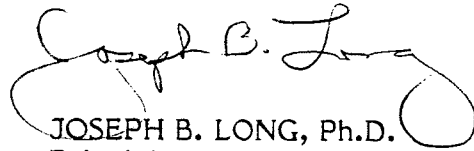
20 July 1990

MEMORANDUM FOR: Health Physics Office
Forest Glen Section, WRAMC

SUBJECT: Request add summer students to trainee status.

1. Request that Rakeesh Chandra, [REDACTED] and Thang Duc Dang, [REDACTED], who are summer student hires in our laboratory, be added as Trainees on Auth # 645. Both students are older than 18 years. Please enroll them in the Principles of Health Physics and Rad Protection course scheduled for July.

PERSONAL INFORMATION
WAS REMOVED BY NRC.
NO COPY OF THIS
INFORMATION WAS
RETAINED BY THE NRC


JOSEPH B. LONG, Ph.D.
Principle User, Auth. 645
Neuropharmacology Branch
Department of Medical Neurosciences
Division of Neuropsychiatry

HS HL-H-HP (385-11h) 1st End


LTC Myers/ab/427-5104

Health Physics Officer, WRAMC

SEP 11 1990

FOR Neuropharmacy, ATTN: Dr. Joseph B. Long

As per your request room G-014 at AFIP has been transferred to Ms Loraine Anderson, Authorization 693.


PETER H. MYERS
LTC, MS
Health Physics Officer

This Application is given
interim approval until the
next meeting of the RCC
which is scheduled for: NOV 90

DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL

HS HL-HP

SUBJECT

Research Protocol for Isotope Named in the
Application for Use of Radioactive Material
Authorization # _____

TO Health Physics Officer
WRAMC

FROM

AFIP/CPW-P

DATE

CMT 1

a. Principal User

Capt Lorraine H Anderson

Telephone Number

576-2868

Authorization Number

b. Investigator & Auth#
(If different than (a.))

Louis Marzella
Gu-En Yin

c. Trainee & Auth#

d. Technician & Auth#

e. Radioisotope

Sr-85
Sc-46
Ce-141

Physical/Chemical form

Microspheres

Maximum Quantity to be used
per Experiment in millicuries
(mCi)

0.02 mCi / animal

f. Title of Project:

Development of Hyperbaric Oxygen
Treatment Protocol Which Optimizes
Blood Flow to Tissues

Maximum Quantity to be used
for Entire Project (if known)
in millicuries (mCi)

12 mCi

g. Beginning Date:

Jan 91

h. Ending Date:

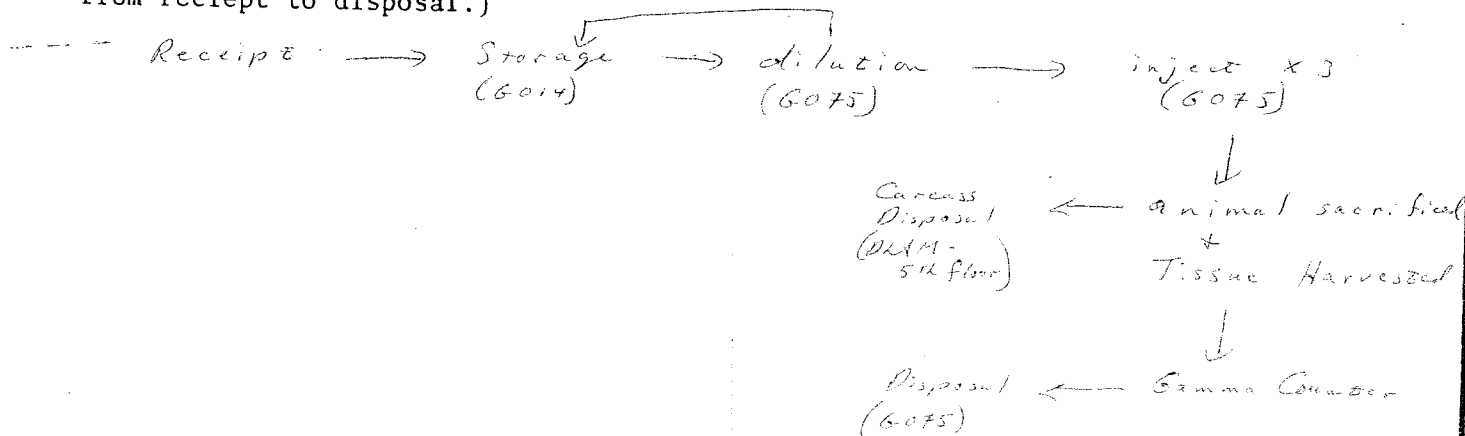
Jan 92

i. Repetitive Study

Yes No

j. Life Cycle of Radioisotope Utilized for Research Procedure:

(Use block/flow diagram to show (where, how much, whose, etc.,) isotope travel
from receipt to disposal.)



k. Labelling and Transport of Radioactive Material

All radioactive solutions, tissues, animals and waste will be identified by proper label, in accordance with Health Physics Condition No. 4. Transport of radioactive material between authorized work areas and waste disposal sites will be conducted in a manner that precludes the spread of contamination and inadvertent exposure to non-participating personnel.

l. Laboratory Animal Usage

Species

*Sprague - Dawley
RATS*

Bldg# *54*

Room#

G075

m. Disposition of Animals

☐

Not Applicable

☒

Animals will be sacrificed and carcasses will be disposed of as radioactive waste.

☐

Other (Specify)

n. Isotope Utilization Locations

Building #

Room #

Max. Amt (mCi)

Location 1

54

G075

Location 2

54

Location 3

Location 4

o. Isotope Storage Location

Building # *54*

Room # *G014*

Max. Amt. (mCi) *2*

p. Isotope Waste Storage Locations

(1) Biological: Bldg# *54*

Room# *Radioactive Carcass Storage Facility, 5th Fl.*

(2) All other: Bldg# *54*

Room# *G075*

☐

All radioactive waste will be transferred to the Health Physics collection point, WRMC (Bldg 2 (NMTF) - loading dock) (1330 to 1430) Wednesday of each week.

☒

All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Bldg 40 - Room B079) Open Monday, Wednesday, & Friday 1030 to 1130.

☐

All radioactive waste will be transferred to the Health Physics collection point, WRAIR (Forest Glen Section) every Wednesday afternoon.

q. Radioactive Waste Disposal

All radioactive waste will be transferred to Health Physics Office in accordance with Health Physics Condition No. 4.

r. Room Survey

All room surveys will be conducted in accordance with Health Physics Condition No. 2.

s. Personnel Dosimetry

Whole Body ☒

Wrist Badge ☐

TLD Ring ☐

will be requested in accordance with Health Physics Condition No. 1.
Assigned dosimetry monitors will be worn by all participating personnel.

- t. Are there any significant non-radiation personnel hazards associated with experiments; (Biological, Explosive, Toxic substances, High Intensity Optical sources, Microwaves, or Electrical) that would effect Health Physics personnel during there routine inspections of these areas.

☒ No

☐ Yes(Please specify)

The Research Protocol enumerated above and on the previous pages is designed to ensure that occupational radiation exposures and release of radioactive effluents to the environment will be "as low as reasonably achievable" (ALARA) during all phases of the research procedure.

Lorain H. Anderson 24 June 90
Signature Date