

Michigan  
Osteopathic Medical  
Center, Inc.

5705 Woodward Avenue  
Detroit, Michigan 48202  
(313) 494-0400

March 16, 1981

W. L. Fisher  
Technical Inspection Branch  
U.S. Nuclear Regulatory Commission  
Region III  
799 Roosevelt Rd.  
Glen Ellyn, Illinois 60137

Gentlemen:

In response to your letter dated February 26, 1981, the following information is provided as requested for each item of noncompliance.

Item #1: A thorough search of the department files did not locate a dose calibrator activity linearity check for the second quarter of 1980. The individual who would have been responsible for completing this study has unfortunately since moved out of state and is not available for questioning.

Subsequent quarterly activity linearity checks will be conducted and reviewed by either the Radiation Safety Officer or our nuclear medicine consultants, Nuclear Medicine Associates. Any discrepancies in performance will be followed by disciplinary action.

Confirmation that activity linearity checks have been conducted as required has been done since the inspection date.

A geometry check on the dose calibrator was conducted on January 19, 1981, four days following the inspection date. A copy is enclosed for your reference. The present conditions of our license require that this test be conducted at the time of installation and following chamber or liner repair. Since the license was renewed in November of 1979 and since the dose calibrator was already in use at that time, the geometry test had not been performed. The enclosed study will serve as a baseline evaluation for future tests.

Item #2: Daily surveys of the dose preparation and injection areas were initiated January 16, 1981. The importance of conducting and recording G-M surveys and wipe tests was stressed to department personnel. Performance of these surveys will be checked

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by our nuclear medicine consultants and/or Radiation Safety Officer. Disciplinary action will be taken if any discrepancies are found.

Item #3: It was understood by contractual agreement that all unused patient doses and residual byproduct materials would be returned to the radiopharmacy supplier for disposal. Unfortunately, this was not adequately clear at the time of the inspection.

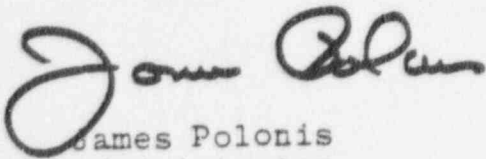
Accordingly we have placed on file a written policy stating same, a copy of which is attached. This was placed in the front of the byproduct disposition records on January 16, 1981, so it would be available for review.

Item #4: Our department has recently made some major changes in technical and consulting personnel. In the process of reorganization, some records had been misfiled or lost. In particular, the personnel exposure records cited in this item had been maintained but were apparently misplaced and not available for the inspection. We have since obtained copies of the specified reports from our film badge vendor. These are attached for your reference. Please excuse the quality, since the attached are second or third generation copies of the originals.

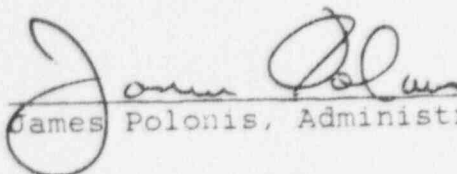
In the future, records will be maintained in a more orderly manner and will be checked periodically by our consultants and/or Radiation Safety Officer.

If any additional information is needed, please contact my office.

Sincerely,

  
James Polonis  
Administrator

I, James Polonis, Administrator-East Hospital, MOMCI, affirm that the above statements are true.

  
James Polonis, Administrator-East

**Michigan  
Osteopathic Medical  
Center, Inc.**

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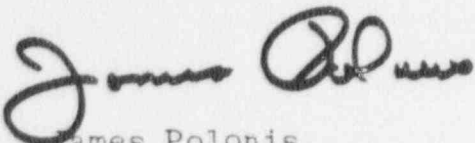
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If any additional information is needed, please contact my office.

Sincerely,

A handwritten signature in dark ink, appearing to read "James Polonis", with a stylized flourish at the end.

James Polonis  
Administrator



## DOSE CALIBRATOR GEOMETRY EVALUATION



Nuclear Medicine Associates  
9726 Park Hill Ave  
Cleveland (Ohio) 44125

FACILITY Michigan Osteopathic Medical Ctr LOCATION Detroit, Michigan

DEPARTMENT Nuclear Medicine ATTENTION Ann Kaufman

MANUFACTURER Picker DATE January 19, 1981

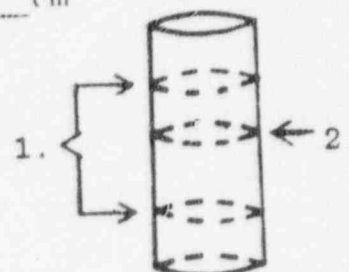
SOURCE Tc-99m 390uCi SETTING 1116

This test was performed using geometrical configuration of activity approximating a point source. The source was inserted into the chamber along its central axis until the maximum activity response was displayed. The source was then moved in the chamber to points above and below the maximum response point until displayed readings of 90% were found. This test included a four quadrant point source response at the periphery of the isoresponse zone. In routine assays, measurements will be made with all activity within the 90% iso-response zone of the chamber. Measurements taken from entry port.

A.1. 90% Iso-response zone 9 cm to 16 cm

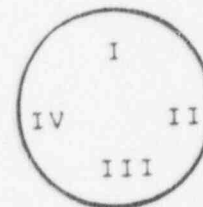
2. 100% Iso-response level 15 cm

COMMENTS:



B. Four Quadrant Point Source Response

DEPTH	% In QUADRANTS
(90%) 9 cm	I: 107.5
	II: 108.3
	III: 103.7
	IV: 106.6
(100%) 15 cm	I: .99
	II: 1.00
	III: .98
	IV: .99
(90%) 16 cm Max Depth	I: 102.4
	II: 1.00
	III: 1.02
	IV: 1.00



COMMENTS:

Frank T. Bloe  
CONSULTANT

<b>Subject:</b> DISPOSAL OF RADIO-PHARMACY SUPPLIED MATERIALS Implemented by Administrative Procedure: N/A Dept. Code: _____ Procedure Code: _____	Dept: <u>NUCLEAR MEDICINE</u> Dept. Code <u>N.M.</u> Policy Code <u>100</u> Page <u>1</u> of <u>1</u> Pages Approved <u>J. J. Polonis</u> Date <u>3/10/81</u>
<b>Scope:</b> EAST HOSPITAL NUCLEAR MEDICINE DEPARTMENT	Supersedes <u>N/A</u> Dept: Code _____ Policy Code _____ Effective Date <u>March 10, 1981</u> Review Date <u>March 10, 1984</u>

### I. PURPOSE

To establish the requirement to maintain records of by-product material transferred from the Nuclear Medicine Department to an authorized recipient.

### II. POLICY

All by-product materials ordered through the local radiopharmacy (Pharmatopes) are to be disposed of by returning them to the radiopharmacy, including all unused doses. Residual materials left after patient administrations, such as in contaminated syringes and needles, are also to be returned.

This disposal policy is in compliance with the agreement between Pharmatopes and our hospital. It is also in compliance with the conditions of our current Nuclear Regulatory Commission (NRC) license as stated under Item #8 "Waste Disposal Procedures," in the license application.

### III. RESPONSIBILITY

The Supervisor, Nuclear Medicine, is directly responsible for assuring compliance with this policy.



**Searle Analytic Inc.**  
Subsidiary of G. D. Searle & Co.  
Film Badge Division  
Box 367, Oakton Street Station  
Des Plaines, Illinois 60018  
Telephone (312) 298-6600  
Telex 72 6463



10

Currently Nuclear Chicago

10

Shipped To:

ART CENTER HOSPITAL  
ART NUCLEAR MEDICINE  
5439 WOODWARD AVE  
CITY OF MI 48202

ART CENTER HOSPITAL  
ART NUCLEAR MEDICINE  
5435 WOODWARD AVE  
EVANSTON, ILL 60201

Customer Number	Report Printed	Report Date	Expt	Standard Exposure Period
69507	03/03/76		1	1 hr. 15 min.
Process Number	Film Received			
2426	02/12/76	<p><b>Important</b> See reverse side for complete explanation of report data.</p>		

When making inquiries about this exposure report, refer to the customer and process number.

[illegible]

Please keep the receipt for your copy.

Extended Range x HG

Searte Analytic Inc.

Subsidiary of G. D. Searle & Co.  
Film Badge Division  
Box 367 Oakton Street Station  
Des Plaines, Illinois 60018  
Telephone (312) 798-6600  
Telex 72-6443



See also: **Agitation**

Formerly Nuclear-Chicago

**Address To:**

ART CENTRE HOSPITAL  
ART NUCLEAR MEDICINE  
5439 MONMOUTH AVE  
REYNOLDS NY 14208

ANY CENTRE HOSPITAL  
ANY NUCLEAR MEDICINE  
SAYS WOODWARD AVE  
DETROIT MI 48202

Customer Number	Report Printed	Notification Date	Freq	Standard Frequency for Product
69987	03/18/76		1	1 MONTH
Reported Number	Film Received	Important See reverse side for complete explanation of report data		
8473	03/02/76			

THESE RESULTS ARE IN ACCORD WITH THE FINDINGS OF OTHER STUDIES THAT HAVE SHOWN THAT THE USE OF A SINGLE-STEP PROCESS IS MORE EFFECTIVE THAN A TWO-STEP PROCESS IN IMPROVING STUDENT PERFORMANCE.

[illegible]







1997

G. O. Imports & Co.  
Farm Badge Division  
Box 367 Oakton Street Station  
Oak Plains Illinois 60018  
Phone Toll Free (800) 323-8018  
In Illinois Collect (312) 306-8800  
Telex 72 843



100

Ordered To:

RAY CENTER MONITORING  
RAY NUCLEAR WEAPONS  
CLUBS MONITORING  
PROPERTY MONITORING

ART CENTER HOSPITAL  
ART NUCLEAR MEDICINE  
ARTS WOODWARD AVE  
ARTIST HILTOP

94127170

Film Received

577

**important**  
See reverse side for certificate  
expiration of return date

1968-1969

[illegible]



Searle Service

1111 Searle & Co.  
1111 Searle & Co.  
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1111 Searle & Co.

# Radiation Exposure Report

Form No. SAN 1

Customer Number	05597	Report Printed	05/29/76	Notification Limit	1	Standard Exposure Period	1 MONTH
Person Number	0379	Film Received	05/14/76	Important See reverse side for complete explanation of report data.			

Shipped To:

ART CENTRE HOSPITAL  
ART NUCLEAR MEDICINE  
9435 WOODWARD AVE  
DETROIT MI 48202

To:

ART CENTRE HOSPITAL  
ART NUCLEAR MEDICINE  
9435 WOODWARD AVE  
DETROIT MI 48202

When making inquiry about this exposure report,  
refer to the exposure and person number.

Current Monitoring Period		Quarter to Date		Year to Date		Life Time		Unused		Birth		Service	
Start Date (Badge Date)	X - G	End	Feet	Feet	Feet	Whole Body	Skin	Whole Body	Whole Body	Whole Body	Date and Sex	Start Date	
06/01/75	1	0	0	0	0	12	13	14	15	16	16	20	
06/01/75	1	0	0	0	0	12	13	14	15	16	16	05/02/75	
06/01/75	1	0	0	0	0	12	13	14	15	16	16	10/07/75	
06/01/75	1	0	0	0	0	12	13	14	15	16	16	06/07/75	
06/01/75	1	0	0	0	0	12	13	14	15	16	16	05/02/75	

Searis Service

1000 Searis & Co.  
Film Badge Division  
Box 367 Oakton Street Station  
Des Plaines, Illinois 60018  
Phone Toll Free (800) 323-6016  
In Illinois Collect (312) 266-6600  
Telex 72 6423  
Fully Accredited Chicago

Radiation Exposure Report

See of Approval

To: **DETROIT MI 48202**  
**DET CENTRE HOSPITAL**  
**ATT NUCLEAR MEDICINE**  
**5435 WOODWARD AVE**

Shipped To:  
**DET CENTRE HOSPITAL**  
**ATT NUCLEAR MEDICINE**  
**5435 WOODWARD AVE**  
**DETROIT MI 48202**

Exposure Number	Report Printed	Notification Date	Freq	Standard Exposure Period
69987	07/01/76		1	1 MONTH
Exposure Number	Film Received	Important See reverse side for complete explanation of report data		
637	06/07/76			

When making inquiries about this exposure report,  
refer to the exposure and group number.

Name		Social Security Number	Current Monitoring Period				Quarter to Date				Year to Date				Life Time Whole Body	Unusual Possession Date	Birth Date and Sex	Service Start Date
1	2	3	Start Date (Badged Date)	M - G	Days	Feet Measured	Feet %	Sum (7 + 8 + 9)	Whole Body	Skin	Whole Body	Whole Body	Whole Body	Whole Body	Whole Body	Whole Body	Whole Body	Whole Body
1	2	3	07/01/76	7	0	0	10	11	12	13	14	15	16	17	18	19	20	06/02/75
4	5	6	07/01/76	7	0	0	10	11	12	13	14	15	16	17	18	19	20	06/02/75
7	8	9	07/01/76	7	0	0	10	11	12	13	14	15	16	17	18	19	20	06/02/75
10	11	12	07/01/76	7	0	0	10	11	12	13	14	15	16	17	18	19	20	06/02/75

**SEE ABOVE**

Center of Applied...

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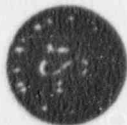
Name		Social Security Number	Current Monitoring Period										Quarter to Date				Year to Date		Life Time Whole Body	Unleaded Permissible Dose	Birth Date and Sex	Service Start Date
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
Start Date (Badge Dates)			M - G	Bats	Feet Handron	Wings (7-8)	Whole Body	Skun			Whole Body	Skair										
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 San Diego, CA 92101  
 H 367 Ocean Street Station  
 San Diego, CA 92101  
 1000 E. Duane St.  
 San Diego, CA 92101  
 1000 E. Duane St.  
 San Diego, CA 92101

## Radiation Exposure Report



1-800-726-6443

TO: ART CENTER HOSPITAL  
ART NUCLEAR MEDICINE  
9435 WOODWARD AVE  
DETROIT MI 48202

Subject To:

Chas. H. Brown, Publisher

Report Printed

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[illegible]

**Important**  
See reverse side for important  
explanation of reprint data

Film Received  
08/05/7A

702  
Process Number

4003

NEVADY MI

1997

11 10 9 8 7 6 5 4 3 2 1

“Jordan directed the troop withdrawal south.”

[illegible]



## Radiation Exposure Report

## Buarte Service

G. D. Sparks & Co.  
Film Badge Division  
Box 987 Oakton Street, Washon  
Des Moines, Iowa 50318  
Phone Toll Free 800-333-9018  
In Iowa Collect (515) 282-8800  
Telex 73 6413  
Formerly Nuclear Chicago



Type of Approval

Customer Number	Report Printed	Notification Level	Freq	Standard Exposure Period
69967	10/09/76		1	1 MONTH
Personnel Number	Film Received	Important See reverse side for complete explanation of report data		
785	09/13/76			

Shipped To:

ART CENTRE HOSPITAL  
ATT NUCLEAR MEDICINE  
9439 WOODWARD AVE

DETROIT MI 48202

To:

ART CENTRE HOSPITAL  
ATT NUCLEAR MEDICINE  
9435 WOODWARD AVE

DETROIT MI 48202

When making inquiries about this exposure report,  
refer to the customer and process number.

Name	Social Security Number	Current Identification		Year to Date				Life Time Whole Body	Unexposed Doses	Birth Date and Sex	Service Start Date																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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## Radiation Exposure Report

Sarto Service

[illegible]

100

1. CITY, HOSPITAL  
2. CLINICAL MEDICINE  
3. ADDITIONAL

**Addressed To:**

ATY CENTRE HOSPITAL  
ATY NUCLEAR MEDICINE  
ATY DR. WOODWARD

RECEIVED BY

4202

2-2-2

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

[illegible]







Case No.  
The Clerk  
of the Court  
at New York

## Radiation Exposure Report

Customer Number	Request received	Request date	Freq	Status
69617	01/01/77		1	
Process Number	<p>Important See reverse side for complete explanation of request date</p>			
809	01/06/77			

Entered To:

ART CENTRE HOSPITAL  
ART NUCLEAR MEDICINE  
3479 HODDARD AVE

IM LIBRARY  
2288

22807

—

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific information required.

[illegible]





Shipped To

BY CENTRE HOSPITAL  
AT NUCLEAR MEDICINE  
5438 WOODWARD AVE

DETROIT MI 48202

Customer Number

09987

Process Number

896

02/25/77

02/07/77

When making inquiries about this exposure report,  
refer to the customer and process number.

Correct Monitoring Period

Start Date  
(Badge Date)

5

23/01/77

31/01/77

31/01/77

31/01/77

31/01/77

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31/01/77

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06/07/75  
17/07/75  
18/07/75  
19/07/75



IN 110443  
2020  
JAN DEVEDOR 5576  
ATY AICLER MEDICINE  
TALIDOMIDE  
Scripsted 10

THE UNIVERSITY OF CHICAGO  
LIBRARY

between making inquiries about this exposure report.

[illegible]

1. The first of these is the fact that the number of people who are employed in the service sector has increased in all countries, and this is particularly true of the United Kingdom. This is due to a number of factors, including the fact that the service sector is becoming more important in the economy, and that people are becoming more mobile and more willing to work in the service sector.

1. Importance of the study

THE UNIVERSITY OF CHICAGO

REVISED 1977

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[illegible]

ALBERT

4557

...steping ...

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一、關於「中國共產黨」  
 二、關於「中國革命」  
 三、關於「中國前途」  
 四、關於「中國青年」  
 五、關於「中國婦女」  
 六、關於「中國兒童」  
 七、關於「中國教育」  
 八、關於「中國經濟」  
 九、關於「中國政治」  
 十、關於「中國文化」  
 十一、關於「中國藝術」  
 十二、關於「中國科學」  
 十三、關於「中國宗教」  
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 十五、關於「中國道德」  
 十六、關於「中國習慣」  
 十七、關於「中國風俗」  
 十八、關於「中國語言」  
 十九、關於「中國文字」  
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 二十二、關於「中國氣候」  
 二十三、關於「中國物產」  
 二十四、關於「中國交通」  
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 六十七、關於「中國對外對外關係」  
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 一百零九、關於「中國對外對外對外關係」  
 一百一十、關於「中國對內對外對外關係」  
 一百一十一、關於「中國對外對外對外政策」  
 一百一十二、關於「中國對內對外對外政策」  
 一百一十三、關於「中國對外對外對外宣傳」  
 一百一十四、關於「中國對內對外對外宣傳」  
 一百一十五、關於「中國對外對外對外教育」  
 一百一十六、關於「中國對內對外對外教育」  
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 一百二十、關於「中國對內對外對外政治」  
 一百二十一、關於「中國對外對外對外文化」  
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 一百二十三、關於「中國對外對外對外藝術」  
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 一百二十七、關於「中國對外對外對外宗教」  
 一百二十八、關於「中國對內對外對外宗教」  
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 一百三十、關於「中國對內對外對外法律」  
 一百三十一、關於「中國對外對外對外道德」  
 一百三十二、關於「中國對內對外對外道德」  
 一百三十三、關於「中國對外對外對外習慣」  
 一百三十四、關於「中國對內對外對外習慣」  
 一百三十五、關於「中國對外對外對外風俗」  
 一百三十六、關於「中國對內對外對外風俗」  
 一百三十七、關於「中國對外對外對外語言」  
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 一百四十、關於「中國對內對外對外文字」  
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 一百四十三、關於「中國對外對外對外地理」  
 一百四十四、關於「中國對內對外對外地理」  
 一百四十五、關於「中國對外對外對外氣候」  
 一百四十六、關於「中國對內對外對外氣候」  
 一百四十七、關於「中國對外對外對外物產」  
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 一百八十七、關於「中國對外對外對外對外氣候」  
 一百八十八、關於「中國對

Current Marketing Practice

See it if you  
can!

Start Date  
Review Date

Figure 1

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# Radiation Exposure Report



Customer Number	69587	Report Period	01/01/77	Frequency	1	Standard Ex. Rate Period	1 MONTH
Process Number	348	Start Date	05/05/77	Important See reverse side for complete explanation of report data			

Shipped To  
 ART CENTRE HOSPITAL  
 ATT NUCLEAR MEDICINE  
 5435 WOODWARD AVE  
 DETROIT MI 48202

ART CENTRE HOSPITAL  
 ATT NUCLEAR MEDICINE  
 5435 WOODWARD AVE  
 DETROIT MI 48202

When making inquiries about this exposure report, refer to the customer and process number.

Date	Current Monitoring Period				Quarter to Date				Year to Date				Life Time Whole Body	Unexposed Areas	Birth Date and Sex	Service Start Date
	N	X	G	Start Date	Fast	Exposure	Exposure	Exposure	Whole Body	Skin	Whole Body	Skin				
01/01/77	0	7		01/01/77	0	31	31	31	14	13	15	16	17	18	19	01/01/70
02/01/77				02/01/77		31	31	31		31	15	17	18			02/01/70
03/01/77				03/01/77		31	31	31		31	15	17	18			03/01/70
04/01/77				04/01/77		31	31	31		31	15	17	18			04/01/70
05/01/77				05/01/77		31	31	31		31	15	17	18			05/01/70
06/01/77				06/01/77		31	31	31		31	15	17	18			06/01/70
07/01/77				07/01/77		31	31	31		31	15	17	18			07/01/70
08/01/77				08/01/77		31	31	31		31	15	17	18			08/01/70
09/01/77				09/01/77		31	31	31		31	15	17	18			09/01/70
10/01/77				10/01/77		31	31	31		31	15	17	18			10/01/70
11/01/77				11/01/77		31	31	31		31	15	17	18			11/01/70
12/01/77				12/01/77		31	31	31		31	15	17	18			12/01/70



ART CENTER HOSPITAL  
ATT NUCLEAR MEDICINE  
5435 WOODWARD AVE

44232

06/20/77

428

06/06/77

important  
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1. PCH/TN

When making inquiries about this exposure report, refer to the customer and process number.

			Year In Date											Year In Date		Life Time		Birth Date and Time		Service Start Date	
														Whole Body	Life Time	Life Time	Life Time	Birth Date and Time	Birth Date and Time	Service Start Date	
														15	16	17	18	19	20		
003	1	MARKER T	05/01/77	35	0			35	35	66	66	2	341	141	588			06/02/77			
003	1	MARKER T	05/01/77	678				678		1327		2		2408			10/02/77				
004	1	BRINN W H	05/01/77	28	0			28	28	59	59	2	169	169	940			06/02/77			
004	3	BRINN W H	05/01/77	183				183		481		2		1879			10/02/77				



### Radiation Exposure Report



ART CENTRE HOSPITAL  
ART NUCLEAR MEDICINE  
5439 WOODWARD AVE

DETROIT MI

48202

Shipped To

ART CENTRE HOSPITAL  
ATT NUCLEAR MEDICINE  
3439 WOODWARD AVE

DETROIT MI

48202

Customer Number

69587

Process Number

512

07/20/77

06/30/77

1 1 1946

important

When making inquiries about this exposure report, refer to the customer and process number.

				Current Monitoring Period							Quarter to Date			Year to Date		Lib. Enter Whole Body	Exposure Date	Birth Date and Sex	Last Exam Start Date
				Start Date (Bridge Date)	Y	X - G	Beta	Fast Neutron	Whole Body T+d	Skin T+d	Whole Body	Skin	Whole Body	Skin					
				5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
003	1	PARKER T		06/01/77			40	6	40	40	100	100		101	101	626			06/02/79
003	3	PARKER T		06/01/77			1000			1000		2400			1600				10/02/75
004	1	BRINN M M		06/01/77			30	0	30	30	80	80		190	190	970			06/02/75
004	3	BRINN M M		06/01/77			100			100		500			1600				10/02/79



Searle Diagnostics Inc.

Radiation Exposure Report



To

ROY CENTRE HOSPITAL  
ATT NUCLEAR MEDICINE  
441 WOODWARD AVE

DETROIT MI 48202

Shipped To

ROY CENTRE HOSPITAL  
ATT NUCLEAR MEDICINE  
4435 WOODWARD AVE

DETROIT MI 48202

Customer Number

1351

Process Number

601

When making inquiries about this exposure report,  
refer to the customer and process number.

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Current Monitoring Period

Start Date (Bauge Date)

5 17/01/77

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Searle Diagnostics Inc.

Radiation Exposure Report



Shipped To

DR. CHARLES B. COVILL  
ATL. NUCLEAR MEDICAL  
9099 BERRYMAN AVE

ATL. NUCLEAR MEDICAL  
9099 BERRYMAN AVE  
ATL. NUCLEAR MEDICAL

ATL. NUCLEAR MEDICAL

ATL. NUCLEAR MEDICAL

ATL. NUCLEAR MEDICAL

Customer Number

80111

Process Number

71

When making inquiries about this exposure report,  
refer to the customer and process number.

Current Monitoring Period

Start Date  
(Range Date)

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20/01/77

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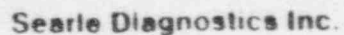
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## Radiation Exposure Report



807 CENTRE HOSPITAL  
ATT NUCLEAR MEDICINE  
5475 WOODWARD AVE

CEVDOIT MI

402-2

Shipped To

ART CENTER HOSPITAL  
ART NUCLEAR MEDICINE  
9475 WOODWARD AVE

CEYNOIV MI

40232

Customer Number

49507

1-16-77

Process Number

784

101-5197

When making inquiries about this exposure report, refer to the customer and process number.

CC#	1	Name	Serial Number	Current Monitoring Period							Quarter To Date			Year To Date			Total	Date
				Start Date (Badge Date)	End Date	X-G	Beta	Fast Neutron	Gamma (7-15)	Slow (17-20)	White (21-25)	Spill	Year To Date	Year To Date	Year To Date			
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
CC#	1	MARKER T		09/01/77			10			10	10	05	09	3	270	270	789	16/02/77
CC#	3	MARKER T		09/01/77			99			99		1861	3		5330		17/02/77	
CC#	1	CRIM M M		09/01/77			91			91	81	102	3	341	341	1112	17/02/77	
CC#	3	CRIM M M		09/01/77			82			82		1349	3		3929		17/02/77	



Searle Diagnostics Inc.

# Radiation Exposure Report



Form No. SDR-100

Shipped To		Customer Number		Report Period	Exposure Level	Freq	Standard Exposure Period
AT CENTRE HOSPITAL AT NUCLEAR MEDICINE 1400 WOODWARD AVE CHICAGO, ILL 60601		60597		11/10/77		1	1 MONTH
BY CITY OF CHICAGO 60601		Process Number 879		11/24/77	Important See instructions for completion of explanation of report data		

When making inquiries about this exposure report,  
refer to the customer and process number.

Current Monitoring Period				Quarter 1, Date				Year to Date				Life Time Whole Body	Unshielded Whole Body	Birth Date and Sex	Service Start Date
Start Date	End Date	Exposure	Rate	WB	HB	SB	SB	WB	HB	SB	SB	17	18	19	20
08/01/77	08/01/77	16	0	16	16	16	16	286	286	286	725				06/02/77
08/01/77	08/01/77	605	0	605	605	605	605	605	605	605	1160				08/02/77
08/01/77	08/01/77	57	0	57	57	57	57	57	57	57	1160				08/02/77
08/01/77	08/01/77	0	0	0	0	0	0	0	0	0	1820				08/02/77





Searle Diagnostics Inc.

1000 N. 15th Ave., Suite 100  
Chicago, Illinois 60610  
Phone: Tel. (312) 323-6015  
Telex: 131221 Zed 6000  
Telex: 72 6443

# Radiation Exposure Report



To		Shipped To:		Customer Number	Report Printed	Number of Tests	Freq	Standard Exposure Period
ART CENTRE HOSPITAL ART NUCLEAR MEDICINE 8438 WOODWARD AVE DETROIT MI 48202		ART CENTRE HOSPITAL ART NUCLEAR MEDICINE 8438 WOODWARD AVE DETROIT MI 48202		69907	12/23/77		1	1 MONTH
Serial Security Number		Process Number		Important: See reverse side for complete explanation of report data				
4		976						

When making inquiries about this exposure report, refer to the customer and process number.

Current Monitoring Period										Quarter to Date				Year to Date		Life Time Whole Body		Unexposed Period		Birth Date and Sex		Serial Start Date	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
Serial Security Number	Name	Start Date (Badge Date)	X - G	Meta	Fast Neutron	Gamma (D - %)	Neutron (D - %)	Whole Body	Skin	Whole Body	Skin	Whole Body	Skin	Whole Body	Skin	Whole Body	Unexposed Period	Birth Date and Sex	Serial Start Date				
4	MARSHALL DAVID M	12/23/77	7	6	0	10	11	12	13	14	15	16	17	18	19	20	21	18	18/02/75	06/02/75			



# Radiation Exposure Report



When making inquiries about this exposure report, refer to the customer and process number.



Customer Number	69507	Report Date	02/07/80	Page	1	of 1
Process Number	062	Form Revision	01/23/83	Important See back of card for details regarding this form.		

Shipped To:  
ART CENTRE HOSPITAL  
ATT NUCLEAR MEDICINE  
5435 WOODWARD AVE  
DETROIT MI 48202

ART CENTRE HOSPITAL  
ATT NUCLEAR MEDICINE  
5435 WOODWARD AVE  
DETROIT MI 48202

When making inquiries about this exposure report,  
refer to the customer and process number.

ID	Name	Social Security Number	Current Monitoring Period						Quarter to Date				Year to Date		Life Total Whole Body	Unlabeled Whole Body	Head
			Start Date (Badge Date)	N	K	G	Beta	Fast Neutron	Whole Body (P.A.M.)	Whole Body (P.A.M.)	Whole Body	Whole Body	Whole Body	Whole Body			
009	KAUFMAN A	368567796	12/01/79	6	7		16	0	16	75	75	476	476	672	29328	06/28/55F	02/02/79
009	KAUFMAN A	368567796	12/01/79				32	0	32	104	104	236	236	577	94428	06/28/55F	02/02/79
009	CEMSHEYES A	362566231	12/01/79				17	0	17	83	83	374	374	577	94428	02/25/42M	02/02/79
009	CEMSHEYES A	362566231	12/01/79				17	0	17	78	78	395	395	51	14949	02/25/42M	02/02/79
009	KATCHMA M	303721213	12/01/79				0	0	0	51	51	51	51	27	39973	06/18/58M	10/01/79
010	KHALSA S	371602767	12/02/79	J			27	0	27	27	27	27	27	27	39973	17/85/53M	12/02/79

# Radiation Exposure Report



Shipped To: ART CENTRE HOSPITAL 411 NUCLEAR MEDICINE 5435 WOODWARD AVE DETROIT MI 48202		Customer Number 69507	Report Period: 01/08/80	Expiration Date: 1 M 24 H
From: ART CENTRE HOSPITAL 411 NUCLEAR MEDICINE 5435 WOODWARD AVE DETROIT MI 48202		Process Number 177	Film Received: 02/22/80	Important: See reverse side for details explanation of report data

When making inquiries about this exposure report, refer to the customer and process number.

Name	Serial Number	Current Monitoring Period				Quarter to Date				Year to Date				Life Time Whole Body	Unused Exposure	Birth Date and Sex	Exposure Date
		N	K	G	Beta	Fast Neutron	Whole Body (7-8-9)	Skin (7-8-9)	Whole Body	Skin	Whole Body	Skin	Whole Body				
11 KAUFMAN A	363567796	5	7		0	0	46	46	46	46	15	16	718	29282	18	06/28/55F	02/02/79
11 KAUFMAN A	363567796	5	7		0	0	46	46	46	46	15	16	718	29282	18	06/28/55F	02/02/79
11 GEMSFEYES A	362566231	5	7		0	0	17	17	17	17	15	16	594	99406	18	02/25/42M	02/02/79
11 GEMSFEYES A	362566231	5	7		0	0	17	17	17	17	15	16	594	99406	18	02/25/42M	02/02/79
11 KHALSA S	371602767	5	7		0	0	17	17	17	17	15	16	44	39956	18	02/05/53M	02/02/79