

Marshall Is.

NAVAL MEDICAL RESEARCH INSTITUTE
NATIONAL NAVAL MEDICAL CENTER
BETHESDA 14, MARYLAND

404293

NP-4/a-aw
L8-6
Ser 00107
5 Mar 1954

R

Dr. John Bugher
Atomic Energy Commission
To: Div. of Biology & Medicine
Bldg. T3
16th and Constitution Ave.
Washington 25, D.C.
Subj: Classified Material; forwarding of

1. The below listed classified material is forwarded herewith.

No. of Copies	Classification	Subject
1	[REDACTED]	Preliminary Report and Personnel List, copy of

2. It is requested that the original of this form be signed and returned to the Commanding Officer, Naval Medical Research Institute, National Naval Medical Center, Bethesda 14, Md.

~~THIS LETTER MAY BE DOWNGRADED TO UNCLASSIFIED
UPON REMOVAL OF THE ABOVE MATERIAL~~

Receipt of the above material is hereby acknowledged on

_____ (date received)

_____ (Signature)

_____ (Type Name and Title)

WITH ATTACHMENT

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
SINGLE REVIEW AUTHORIZED BY: AASnissell 3/31/94	DETERMINATION (CIRCLE NUMBER(S))
REVIEWER (AD): 1/6/94	1. CLASSIFICATION RETAINED
NAME: 4/4/94	2. CLASSIFICATION CHANGED TO:
DATE:	3. CONTAINS NO DGE CLASSIFIED INFO
	4. COORDINATE WITH: 862/DNA
	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED

MILITARY RESEARCH & APPL 7-5

Declassified by DNA, Chief, ISTS
WITH ATTACHMENT

Date: 12/7/94

Encl 8

[REDACTED] SECRET

~~SECRET~~
~~RESTRICTED DATA~~

Sublethal exposure - Population heavily infested, chronic infection

Dose - 100 r + 100 r ? whole body

1000 r + to skin

Exposed population - diverse ages, both sexes, infestation 100%,
chronic infection high (tbc?, amebiasis?, miscellaneous tropical disorders)

Source of radiation:

Fall-out - wide spectrum, high beta contribution, small penetrating component.

Indicated ideal studies:

- a. General clinical - PE, temp, weight, fluid intake-output, whole body burden of radioactive materials.
- b. Excreta - urine: sp, gr., pH, occult blood, microscopic, steroids
stools: characteristics, occult blood, cultures.
both: Sr⁸⁹ - Sr⁹⁰ and other fission product excretion.
Ruthenium¹⁰⁶
- c. Blood - Sp. gr. of blood and plasma, Hgb, WBC, diff., platelets.
- d. Chest plates.
- e. Bacteriological studies (blood, urine, and stool cultures, sensitivity to AB).
- f. Parasitological
- g. Urinary porphyrins.
- h. Plasma collection for future study.
- i. Blood chemistry if illness acute.

~~SECRET~~
~~RESTRICTED DATA~~

~~SECRET~~
~~RESTRICTED DATA~~

~~SECRET~~
~~RESTRICTED DATA~~

Probable results of exposure:

Healthy population:

Skin lesions in high dose group - erythema, epilation, perhaps ulceration depending on beta exposure, if ulceration occurs plastic repair may be needed.

General acute subacute effects:

Moderate lymphopenia, fluctuating granulocytes for 5 - 7 days, and then moderate granulopenia, within 7 - 8 days moderate thrombopenia, anemia slight. Serious signs and symptoms unlikely.

Diseased population:

If animal studies of Bond, Shechmeister, etc. on chronically infected animal colonies pertain to man, 100 - 200 r can be expected to flare up infectious processes and the radiation syndrome can be expected to be much more severe with death probable in some.

Existing chronic tbc, amoebic, or other ulcers may well become active.

If radiation ulcers develop in the leukopenia phase, infection may be difficult to control and may be a portal of entry for fatal infection.

~~SECRET~~
~~RESTRICTED DATA~~

~~CONFIDENTIAL~~

PRIVACY ACT MATERIAL REMOVED

U. S. Navy - NMRI

Eugene P. Cronkite, CDR, MC, USN,

Robert A. Conard, CDR, MC, USN,

Nathan R. Shulman, LT, MC, USN,

Richard S. Farr, LT, MC, USN,

William H. Chapman, LT, MSC, USN,

Robert Sharp, LTJG, MSC, USN,

Richard B. Williams, CDR, MC, USN,

Clyde R. Sipe, HMC, USN,

Paul K. Schork, HMC, USN,

Cloyce P. A. Strome, HMC, USN,

Jefferson W. Hamby, HM2, USN,

William G. Clutter, HML, USN,

R. E. Hansell, HML, USN,

USN - USNRDL

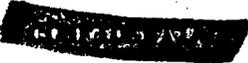
Victor P. Bond.

4 - EM technicians

Lauren J. Smith, Lt, MSC, USN

PRIVACY ACT MATERIAL REMOVED

~~CONFIDENTIAL~~



PRIVACY ACT MATERIAL REMOVED

USN -

James S. Otto, BMC, USN,

Pearle E. Thompson, BMC, USN,

James R. Cassidy, BMC, USN,

U. S. Army

L. E. Browning, LTCOL, MC, USA, AFSWP

William H. Crosby, LTCOL, MC, USA)

Frank Furth, LT, MC, USAR)

Walter Reed

3 - technicians

USAF

2 - officer - ophthalmologist and hematologist

3 - technicians

AEC

Charles L. Dunham

George V. LeRoy

General Organization:

1. Two echelons

PRIVACY ACT MATERIAL REMOVED



[REDACTED]

a. First echelon (9 officers, 8 EM, 3 civilians - 20)

USN - NMRI

E. P. Cronkite

N. R. Shulman

R. S. Farr

R. Sharp

C. R. Sipe

P. K. Schork

C. P. A. Strome

USNRDL

V. P. Bond

3 - EM

Lauren J. Smith

U. S. Army

L. E. Browning, LTCOL, MC, USA

William H. Crosby, LTCOL, MC, USA

Frank Furth, CAPT, MC, USAR

1 - Technician

[REDACTED]

~~CONFIDENTIAL~~
~~CONFIDENTIAL~~

USAF

1 officer, preferably internist

1 technician

AEC

C. L. Dunham

G. V. LeRoy

2. Second echelon

USN - NMRI

R. A. Conard

W. H. Chapman

J. W. Hamby

W. G. Clutter

R. E. Hansell

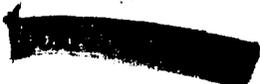
USNRDL

1 - EM tech.

USA

~~CONFIDENTIAL~~
~~CONFIDENTIAL~~

2 - EM tech.



USAF

2 - EM tech.

3. Reserve and rear echelon group:

USN

George Sabbag - Administrative

R. B. Williams - Pathology

C. F. Ehrens - Radiology

F. Ellinger - Radiology

Bacteriology - Epidemiologic unit

USA

E. DeCoursey - Pathology

2 - pathology technicians

USAF

Dermatologist

AEC - civilian

S. Warren)

A. Liebow)

Pathology

not necessary



Plastic Surgeons - Some base hospital

Operational Plan:

1. First echelon leave as soon as practical but not later than 1200 Saturday 6 March 1954.
2. Pick up USNRDL contingent at Travis AFB.
3. At Hickam inform Admiral B. Hogan, MC, USN that medical officer of situation, possible need of supplies and help.
4. Arrival at forward area, review situation and decide if and when second and reserve echelons will be needed.
5. Establish laboratory and clinical studies.

Skeleton Organizational Plan:

Administration and supply - LT Smith

Clinical studies - Dunham, LeRoy, Shulman, dermatologist

Records and statistics - Sipe

Laboratory - Hematology: Cronkite, Crosby, Furth, Farr, Bond, Schork,

2 USN, 1 NSA, and 1 USAF tech.

Urine and fecal collection and shipment: Sharp

Pathology: Warren, Williams, DeCoursey

Photography - Strome, Lookout Mt. Lab.

~~SECRET~~

Outline of Clinical and Laboratory Studies:

1. Physical Examination
2. T, P, R, BP, weight
3. Fluid intake and output
4. Collection of excreta
5. Blood:
 - Hgb, Ht, or Blood and plasma sp. gr. q̄ 3rd day
 - WBC and smear q̄ other day
 - Platelet " " "
 - Marrow as indicated
 - Plasma collection for further study
6. Urine:
 - Vol. and sp. gr.
 - Gross appearance - blood
 - Micro - Rbc or Occult
7. Feces:
 - Gross appearance, blood
8. Bacteriology:
 - As indicated depending on clinical course

~~SECRET~~