

UNIQUE DOCUMENT

NAVAL MEDICAL RESEARCH INSTITUTE

NATIONAL NAVAL MEDICAL CENTER BETHESDA 14, MARYLAND

404293

NP-4/8-aw

L8-6

Ser 00107 5 Mar 1954

Dr. John Bugher Atomic Energy Commission To: Div. of Biology & Medicine Bldg. T3 16nth and Constitution Ave. Subj Washington 25 Dicl; forwarding of

1. The below listed classified material is forwarded herewith.

| No. of Copies | Classifi- cation | Subject | | | |
|------------------|---------------------|--|--|--|--|
| 1 | | Preliminary Report and Personnel List, copy of | | | |
| | | • | | | |
| | | r | | | |
| | | | | | |
| | | | | | |
| | · | | | | |
| | | | | | |

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 DOWNED AD AD TO UNCLASSIFIED Receipt of the above material is hereby acknowledged on (date received)

| | |
|-------------|---|
| (Signature) | |
| | • |

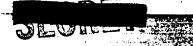
(Type Name and Title)

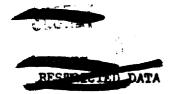
| SINGLE REVIEW AU AGRIZED BY: DETERMINATION [CIP LE NUMBER(S)] AASmissall' 3/3/94 CLASSIFICATION CHANGED TO: CLASSIFICATION CHANGED TO: CLASSIFICATION CHANGED TO: CLASSIFICATION CHANGED TO: | WITH ATTACHMEN | V7 |
|---|--|--|
| SINGLE REVIEW AT AGRIZED BY: DETERMINATION (COTTE NUMBERS) | DEPARTMENT OF ENE | AGY DECLASSIFICATION NEVIEW |
| NAME: HAMPY DATE: HAMPY C. CLASSIFICATION CANCELLED C. CLASSIFICATION BRACKETED | SINGLE REVIEW AU HORIZED BY: AASin is all 3/31/94 REVIEWER (ADT). NAME: | DETERMINATION (CITE ENUMBERG)) 1. CLASSIFICATION CHANGED TO: 1. CLASSIFICATION CHANGED TO: 1. CLASSIFICATION CHANGED TO: 1. CLASSIFICATION CHANGED TO: 1. CLASSIFICATION CANCELLED 1. CLASSIFICATION CANCELLED |

MILITALY RESEARCH & APPL

Declassified by DNA, Chief, ISTS

Encl 8





Sublethal exposure - Population heavily infested, chronic infection

 $\frac{\text{Dose}}{1000 \text{ r} + 100 \text{ r}} \text{ whole body}$

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: $8r^{89} - 8r^{90}$ and other fission product excretion.

- 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.
 - 1. Blood chemistry if illness acute.









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 the, 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.





U. S. Navy - HMRI

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, EM2, USN,

William G. Clutter, HMI, USN,

R. E. Hansell, HMl, USN,

USN - USNRDL

Victor P. Bond.

4 - EM technicians

Lauren J. Smith, Lt, MSC, USN

PRIVACY ACT MATERIAL REMOVED





USN -

James S. Otto, HMC, USN,

Pearle E. Thompson, HMC, USN,

James R. Cassidy, HMC, 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 - ophthamologist and hematologist

3 - technicians

AEC

Charles L. Dunham

George V. LeRoy

General Organization:

1. Two echelons

PRIVACY ACT MATERIAL REMOVED

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

USN - MMRI

- E. P. Cronkite
- N. R. Shulman
- R. B. Farr
- R. Sharp
- C. R. Sipe
- P. K. Schork
- C. P. A. Strome

USNRDL

- V. P. Bond
- 3 EM

Lauren J. Smith

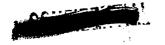
U. S. Army

L. E. Browning, LTCOL, MC, USA

William H. Crosby, LTCOL, MC, UBA

Frank Furth, CAPT, MC, USAR

1 - Technician





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

USHRDL

1 - EN tech.

USA

2 - KM tech.



USAF

2 - EM tech.

3. Reserve and rear echelon group:

USN

George Sabbag - Administrative

R. B. Williams - Pathology

C. F. Phrens - Rediology

F. Ellinger - Radiology

Bacteriology - Epidemologic unit

USA

E. DeCoursey - Pathology

2 - pathology technicians

USAF

Dermatologist

AEC - civilian

A. Liebov

Pathology het received



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 Hickem inform Admiral B. Hogan, MC, USH that medical officer of situation, possible need of supplies and help.
- 4. Arrival at forward area, review situation and decide if and when seco nd 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 MSA, and 1 USAF tech.

Urine and fecal collection and shipment: Sharp

Pathology: Warren, Williams, DeCoursey

Photography - Strome, Lookout Mt. Lab.



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. q 3rd dag WBC and smear q 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