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# De Kinkbraugh

LD50 in White Rats

- TODD 0.02 mg/kg
- Acetophenone 66 mg/kg

Peak <sup>LD50</sup> Early on a mild effect on liver, an increase in urea phosphorus.

liver microsomal enzyme inducers

Effect on blood, serum enzymes etc. at 10 mg/kg <sup>1-280</sup>

- SGPT ↑
- bilirubin ↑
- SGOT ↓
- blood-glucose ↓
- blood serum protein ↓
- thrombocytopenia
- lymphopenia

In Phase Marker

58 mg (~1.2 mg/kg) 3 min exposure 17-~~but~~trichol ↓

11.3 mg 6 months 3/6 <sup>concentrated</sup> ~~absorbed~~ ↓

progestosterone ↓

Animals will not even follow any source disease

In female rats: squamous cell carcinoma of the nasal turbinate and of the lung.

hepatic Remplicin also noted in female rats - some animals that had tumors

Rate $\mu\text{g}/\text{kg}/\text{day}$	Type of tumor	Incidence
0		2/80
0.1	Hepatocellular	11/48
0.01	carcinoma	2/50
0.001		0/50

mic - 10  $\mu\text{g}/\text{kg}$  - 1.0  $\mu\text{g}/\text{kg}$  b.w. TCD

Actual malformations have only been shown in the uterus - this distinguished from hepatocarcinoma

no malformations in fetuses at HESSE

Students

~~1949~~ Intro W.V.  
MAR 1949

122

1949  
122  
116 + 55

~~238~~

32 death complications

277 - from

948-968

Mortality 32 US. 40 expected

Cohorts - 1

Exposed &

# 200

History of genome  
and/or systemic  
problems

2.

NO history of gene  
but exposed

# 200

3.

no exposure

# 200

437

LOCATION of #23 to different SOURCE of  
TCDD - e.g., Municipal ~~Incinerator~~

BOB DeYOUNG/CAVEAT

The problem is that he is classifying  
all Vietnam VETS as suspect  
of VA & "FEDS"

ST LOUIS - Southern Ill. UNIVERSITY  
600 Phone calls in 2 WEEKS

Colo. Poll 83%

NUMBNESS

Nervous Disorders

Psych. Disorders

89%

Skin Rashes

Alteration of Sex Drive

CANCER

BIRTH DEFECTS

Asthenia

Media Dissemination of DATA - Self Selection

→ VET-LINE HOT LINE  
78 COMPILLED STUDIES

Bob DeVaus

13 SEP 79 - STARS & STRIPES

~~██████████~~  
ANTENNIA VALLEY

LONG STAIRS  
" NO RECORDS "

POISON BOWS  
POISON USED FROM

ANAMA

FORT POPE

FORT LEWIS

CHARUTE

## VA Problem Solving Efforts

Advisory Committee on Health Effects of Herbicides  
Steering Committee on Health Effects of Herbicides

1. Attempt to assess impact of situation on various parts of VA
2. Coordinate VA Response
3. Provide Advice on Policy & Specific Issues
  - A. Establish Literature Base
  - B. Keep Field Informed of VACO Activities
  - C. Collect Info on illnesses of patients who were allegedly exposed.
  - D. Collect info on exposures.  
DoD had available <sup>HERIS</sup> Tapes  
DoD did not have data on troop movement from Unit histories
  - E. Every Vietnam Vet. is asked whether they were exposed. If yes, they should be examined <sup>in</sup> 10-79-83 circular.
  - F. Epid study needed. 3100 reports have been collected.
  - G. Encourage Research on Problem.
  - H. Formal liaison with AFSG

## Research Efforts.

① Biological Marker - 8 to 10 yrs after Exposure.

34 Biopsies

20 Study Cases

11 Non-Exposed Controls

3 Active Duty MF

Lynne LEE

## 21st October Meeting in Chicago.

② Tissue Collections at AFIP - Tissue Registry

Ed. 29 Sep 78

Paul LeGaris

All pathological tissue from Vet.  
will be collected & examined  
by AFIP

Unusual / Unusual Tumors:

Tumor at young age:

Special Tumor frequency in a given unit!

7 Surgeries

5 Autopsies

1 Serum Fluid

③ Coding of all Medical Data.

Establishment of a Agent Orange ~~to~~ Registry.

19 MAY 78 - Teletype Protocol for all VA Staff

14 Sep 78 - 10-78-214 - Formulating Procedures

16 April 79 - 10-79-83 - Requirement for Uniform Coding of data

Margaret Willbroff

- No F 10-20-GM. Cell Sheet destroyed  
Statistical ms.

④ American System of Chromosomes Studies being  
initiated.

⑤ Reason for loss of Government's chromosomes from  
Agri. Dept. varies in Vietnam from  
DDE & E

Dates, location,  
Type, Area

⑥ How many people have applied for claims.  
Hain, Longnam & Chutkat persons in Hong  
Kong 5 million claims in last 2 yrs

625.

435 - Chemical Specific Variability  
190 - Hybrid Excess

1 Claim allowed due to Chlorine  
18 Claims allowed for other reasons.  
Probability claims & organized  
during source or type after.

416 - Denials

207 - skin  
96 - Nerve  
24 - Sexual ad.  
46 - Andropin

101 - Paralytic  
36 - GTCV  
22 - Lung  
21 - ENT

Analysis of  
348 claims

Research of Cancer Risks

For ~~the~~ Disability Attributable to AQ yrs. hrs.  
Evidence of exposure during service  
Evidence of disability to that exposure  
presently exists

- 1. General Council
- 2. Public Relations

### ADVISORY COMMITTEE ON HEALTH EFFECTS.

11 Apr 78 - Reported Policy Statement

- Special Advisory Set up

- mediation

- Inhouse Advisory Committee

- did not meet legal process

- Formal Committee was (started)

established in Apr 78

• 2 VA Reps

• Each Fed. Agency with

Responsibility or Expert

- DOD

- EPA

Dr. Mann Gross  
Manufacture of Herbicides  
AFU

• NCI

• NIAS (De Henry)

• NIEHS

• CDC

• AFU - De Brack  
• VET Group - Heliker

• USDA

De James Smith

VA - 1979 - Nuclear Medicine Service

1975 - Spent time in VETS

- who participated in A. Bomb tests.

JAN 78 - Braden Wilfong's return

a Vet dying of leukemia

VA, DOD, DNA developed a protocol

Exposed to 25 rem (~200)

Exposed to 5 rem or more (~250,000)

1000 women exposed to radiation (with off bombing)

AIRR - As low as Reasonably Achievable

90% who participated in O.S - 0.8 REM

potentially exposed

250,000 → 30,000 calls

Called VA

700,000

Hospitality

200 visited VA Hospital

0.8% made inquiries

what diseases result from cancer?  
404 Propts - 76 mille

1000	vs	1000
100,000	vs	10,000,000
100,000	vs	10,000,000
10 rem	vs	1 rem
100 rem	vs	10 rem
1000 rem	vs	100 rem
100,000 rem	vs	10,000 rem
10,000,000 rem	vs	1,000,000 rem

## Dr Ray Suskind

COMPONENTS NEEDED INCORPORATED INTO AN  
APPROACH: TO ENVIRONMENTAL HEALTH:

1. EXAM BIOMEDICAL NEEDS IN  
EVALUATING THE SPECIFIC ENVIRONMENTAL/  
BIOLOGIC HAZARD

2. IS IT AN AGENT THAT PEOPLE HAVE  
BEEN OR WILL BE EXPOSED TO?

- REVIEW OF LITERATURE TO DETERMINE  
WHAT IS KNOWN.

eg., 1920s Tetraethyl LEAD

- WHAT INFORMATION CAN BE USED TO  
SOLVE PROBLEMS.

3. <sup>USE</sup> TEAM APPROACH TO ENVIRONMENTAL HEALTH  
RESEARCH.

4. DETERMINE INFORMATION GAPS VIA

- Frequency of clinical incidents

- Exam. Populations that may  
have been exposed

- Exam population of people  
currently exposed?

eg., Mercury & Warburg units  
in hospital.

focus on involved organs.

• Most industries have specific programs of monitoring

100,000 chemicals in U.S. environment  
for which we have little or no data.

• Computer Based Programs are now available to give us an idea about the relationship between structure and biologic activity.

Any approach has to be the best Scientific

approach. Work of Physico & other ~~Scientists~~ Scientists

Don Goodspeed  
Newington - Ct.

Tunnel Cigarette for many of smoke  
Dry, applied to floor of tunnel  
Gloves & masks

Quick with  
Hammers

**Item ID Number** 05756

**Not Scanned**

**Author**

**Corporate Author**

**Report/Article Title** Agenda, Membership List, Charter and Notes related to  
VA Advisory Committee on Health-Related Effects of  
Herbicides, dated September 24, 1979

**Journal/Book Title**

**Year** 1979

**Month/Day**

**Color** 17

**Number of Images** 14

**Description Notes**



VETERANS ADMINISTRATION  
ADVISORY COMMITTEE ON HEALTH-RELATED EFFECTS OF HERBICIDES

September 24, 1979

DR. HABER  
Chairman  
VA

DR. SCHEPERS  
Vice-Chairman  
VA

DR. HOLPRIN  
NIOSH

DR. KEARNEY  
USDA

DR. GRIFFITH  
EPA

MR. LENHAM  
DAV

DR. ERICKSON  
CPC

DR. LINGEMAN  
NCI

MAJOR BROWN  
DOD

DR. MOORE  
NIEHS

DR. BRICK  
AL

DR. MURPHY  
Univ. of Texas

DR. ALLEN  
Univ. of Wisc.

STENOGRAPHER

ADVISORY COMMITTEE ON HEALTH-RELATED EFFECTS OF HERBICIDES

MEMBERSHIP - SEPTEMBER 1979

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(Continued)

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ADVISORY COMMITTEE ON HEALTH-RELATED EFFECTS OF HERBICIDES

MEMBERSHIP - SEPTEMBER 1979

(Continued)

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MEMBERSHIP - SEPTEMBER 1979

(Continued)

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# CHARTER OF VETERANS ADMINISTRATION ADVISORY COMMITTEE

## A. OFFICIAL DESIGNATION: ADVISORY COMMITTEE ON HEALTH-RELATED EFFECTS OF HERBICIDES

## B. OBJECTIVES AND SCOPE OF ACTIVITY:

It has recently been brought to light that enormous quantities of herbicidal chemicals were used during the Vietnam War and that there is a possibility that large numbers of Americans, many of whom now qualify as veterans, may have encountered these chemicals to an extent that long range significant health problems may have been initiated. There is considerable controversy in the published literature and it is probable that much information remains unpublished. The Veterans Administration has not previously been required to resolve toxicological issues of such a complex and highly controversial nature. The Committee will, therefore, assemble and analyze the information which the Veterans Administration needs in order to formulate appropriate medical policy and procedures in the interests of the involved veterans. The Committee will have an entirely fact-finding and advisory role and will not be required to develop policy. The Committee will adhere to all the provisions of U.S. Public Law #92-463, 5 U.S.C. App. I, Executive Order #12024 and Presidential Circular #A-63, of March 27, 1974 and subsequent applicable revisions.

## C. PERIOD OF TIME NECESSARY TO CARRY OUT THE COMMITTEE PURPOSE:

It is anticipated that the Committee may achieve its objectives within 24 calendar months. If an extension of time is needed, this will be properly negotiated.

## D. AGENCY OFFICIAL TO WHOM THE COMMITTEE REPORTS:

The Committee will report to the Chief Medical Director through the Assistant Chief Medical Director for Professional Services.

## E. AGENCY RESPONSIBILITY FOR PROVIDING THE NECESSARY SUPPORT:

Veterans Administration Department of Medicine and Surgery.

## F. DUTIES AND FUNCTIONS OF COMMITTEE:

The Committee holds quarterly sessions at the Veterans Administration Central Office in accordance with an appropriate schedule of dates set at preceding meetings. A structured agenda is followed. Members are asked

to prepare special presentations and gather categories of data uniquely accessible to them. All members state their views fully and explicitly and support these with documentation as needed. The views of individuals with differing opinions are recorded. Testimony is obtained from knowledgeable persons. Meetings are open to the public except when, in the discretion of the Chairman, the privacy of individuals, who may come under discussion, may be infringed. Members of the public may direct questions to the Chairman in writing and submit prepared statements for review by the Committee. At the discretion of the Chairman, such members of the public may be asked to clarify such submitted material prior to consideration by the Committee. The Committee maintains summary minutes of its findings and develops conclusions and interim reports for consideration by the staff of the Veterans Administration. The Committee maintains liaison with all other federal agencies which have knowledge of and expertise in toxicology of chemical substances which may be pertinent to the herbicide issue.

**G. ESTIMATED OPERATING COSTS:**

The estimated annual cost for operating the Committee is \$5000 and about one person year. The Committee should have 12-15 members.

**H. NUMBER AND FREQUENCY OF MEETINGS:**

The Committee meets quarterly for one half day per session.

**I. TERMINATION DATE:**

Unless renewed by appropriate action prior to its expiration, the Committee will expire two years from the date below.

**J. DATE CHARTER IS FILED: April 20, 1979**

21 Cases  
18 Confirmed  
9 Return

8 Samples submitted to EPA.

1 PPI

FAT Report on 34 Voluntary  
21 ~~have~~ have been analyzed

Dr. JFE

Minutes are available on  
Steering Committee minutes

- 650 Claims filed under this  
program, 1 allowed, 19  
received compensation but  
not being related.

- Liaison with other federal  
agencies concerning  
claims, especially

- Computerize information on the  
next step

- Have not gone to Out-Reach  
1962-1979

→ 3100 Veterans who have been examined  
today.

- Coordinate entire VA Action

- Steering Committee Report

①

2  
Dr LEE 21-26  
October meeting on ~~the~~ dropsey  
is planned.

immune

Data Collection in May 78, office  
Sept 78 - coding in Central office  
Registry

Dr John Caselot  
preparing report

~~Case~~ - Case Study - Mental Problems  
- Case Study - Child in the  
Department

Donald Hove

Subj - Spraying Tapas/Mulby Unit Houston  
\* has some with DOP.

Location Sprayed & Dates

AND Houston

Deputy Undersecretary  
of Defense

Houston Units in Vietnam

③

Two Cases in Fed. Stages

→ New York - Class Action Suite  
Washington

Government Companies  
These names  
dependents

Dr. Conway -

AFTIP

Requesting included in Sep 78

AFTIP will examine diagrams  
and send report to

contractor

Records to VA

Contract Number  
- Contract Number especially

noted

Apt. - Jul 79 - 13 Cases Reported

7 Surgeries

5 Autopsy

1 Seminal Fluid

DI Love -

Dr. Butler

DeYoung - Apt Org. <sup>Interview</sup>

Computer Tapes - tracking of a given individual.

\* Veterans have been gathering own record books

Todo Ensign - Apr 16, 79 memo.

Citizens' Soldier

Asking questions on exposure, etc. may not be going on for all vets that claim exposure.

Michael Uhl -

Epidemiological

Design -

Dr. Lilliantfeld, John

kept in' as being asked.

input

Mechanism of Advancing the Design of a Epi Study.

U.S. Medicine - Terry Jamison

DeYoung - asked About AF Study.

Dr Brick - Drown & Liver Cancer

Have said that VA made comments on Tungs Visit.

# POSITION PAPERS

#1 Epidemiologic Mortality Records are available.

\* 2.4 million Veterans

Morbidity should be included

~~1 or 2~~ 1 or 2

500,000 estimate

Dr Young —  
Michael ~~WHL~~

#2 Dr Brick  
Populations for Examination  
and Epidemiological investigations

Dr Kearney: USDA is  
evaluating whether a  
valid Epi Study can  
be conducted

7 groups  
1. Lawn & Garden Operators, NAAS — Dr Blair  
2. General Farm, Coburn - Super, Pesticide 1800 pilots  
Discussed Since 1965

Technical Report 178-92 } Qualifications  
Technical Reports - APATL TR-175-142 }  
De Brieke - Focused on 'need for  
exposure data

Don Larson - Individuals -  
Australians / New Zealanders  
have used these  
materials for many years.