item ID Mumber	01596
Author	
Corporate Author	
Report/Article Title	Typescript: [Notes on] Air Force Health Study
Journal/Book Title	
Year	0000
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Number of images	13

Includes a few handwritten notes as well.

Descripted Motes

AIR FORCE HEALTH STUDY

- WHITE HOUSE DIRECTED
- Study Design Extensively Peer Reviewed
- Unique Study Population
- STUDY DESIGN
 - MORTALITY
 - Morbidity: Questionnaires, Physical Exams (Keyed to known and reported effects)
 - FOLLOW-UP

STUDY RESULTS

No Soft Tissue Sarcoma (STS), Porphyria Cutanea Tarda (PCT), or Chloracne Diagnosed in RANCH HANDERS

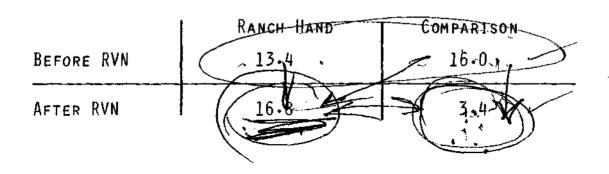
FERTILITY/REPRODUCTIVE

- No Significant RANCH HAND OR Offspring Findings in:
 - SPERM COUNT, OR DEFECTIVE SPERM
 - FIVE FERTILITY/INFERTILITY MEASURES
 - MISCARRIAGE, STILLBIRTH, LIVE BIRTH
 - SEVERE BIRTH DEFECTS
 - MODERATE BIRTH DEFECTS

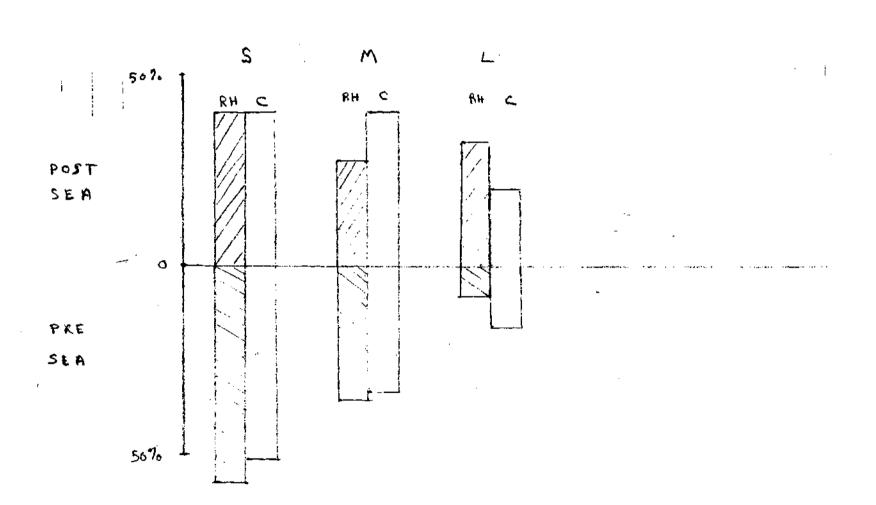
NEONATAL DEATHS

(Unverified self reports; medical records, death certificates pending)

RATE/1000



PERCENT DISTRIBUTION OF REPORTED BIRTH DEFECTS BY SEVERITY AND TIME



CANCER

- No Difference In The Occurrence Of "Systemic" Cancer
- No Soft Tissue Sarcoma Found In RANCH HANDERS
- More Verified Skin Cancer In RANCH HAND Group
 - Not Adjusted For Sun Exposure

a Mature of the cancer a Mortaldy a Frequency at altitude

LIVER

- RANCH HANDERS Self Reported More Liver And PCT-like Symptoms
 - Not Verified As Yet By Medical Records
 - Not Confirmed At Physical Exam (No PCT)
 - Not Substantiated By Lab Tests
- Several Minor Lab Test Differences, But Most Tests Were Similar Between Groups
- More Verified Miscellaneous Disorders In RANCH HANDERS; Significance Unknown

OTHER OBSERVATIONS

- " Poorer Self Perception Of Health In RANCH HANDERS
- " Two LEG PULSES DIMINISHED IN RANCH HANDERS; SIGNIFICANCE UNCLEAR
- NERVOUS, KIDNEY, IMMUNE AND BLOOD SYSTEMS WERE ESSENTIALLY NEGATIVE
- No Meaningful Relationships Between Exposure and Study Findings
- EFFECTS OF CLASSICAL RISK FACTORS (AGE, SMOKING, ALCOCHOL, EDUCATION, ETC+) OBSERVED THROUGHOUT STUDY

CONCLUSIONS

- " STUDY MEASURED TRUE HEALTH STATUS TO MAXIMUM EXTENT POSSIBLE
- " ALL IMPORTANT FINDINGS ARE BEING FOLLOWED UP
- Insufficient Evidence To Support Herbicide Causality
- FINDINGS TO DATE SHOULD BE REASSURING TO RANCH HANDERS
 - No chloracne means low exposure versus chemical worker populations
 - No MAJOR CLINICAL HEALTH PROBLEMS
 - OVERALL GOOD GENERAL HEALTH FOR AGE

STUDY COMPLEXITIES

- Enormous Data Base (4 million items)
- Validity of Self Reporting in Absence of Complete Medical Record Verification
- e Effects of Multiple Risk Factors
 (age, smoking, etc.)
- Potential Biases
- ° Study Schedule

INTERPRETIVE COMPLEXITIES

- Statistical Associations Do Not Mean Causation
- No Analogous Human Studies
- Many Statistically Significant RANCH HAND-Comparison Group Differences Are Not Of Clinical Relevance
- Exposure Index Analyses Are Unrefined
- Positive And Negative Findings Require Follow-up

CATEGORIZED BIRTH DEFECTS BEFORE AND AFTER VIETNAM

Before Vietnam

Birth Defect	RANCH HAND		All Comparisons				
	Number	8	Number	-8			
Severe	51	56.5	62	51			
Moderate	32	35.5	40	33			
Limited	7	8	20	16			
After Vietnam							
Severe	32	40	34	40			
Moderate	22	27.5	34	40			
Limited	26	32.5	18	20			

VERIFIED SKIN AND SYSTEMIC CANCER

	RANCH HAND	Original Comparisons	All Comparisons
:	Number (%)	Number (%)	Number (%)
Skin Cancer	35 (3.3)	11 (1.4)	25 (2.1)
	•		
Systemic Site			
Lip, Mouth, Throat	4	2	2
Digestive System	0.	4	5
Respiratory	3	1	2
Genitourinary	6	2	3
Blood, Lymph	0 .	0	1
Other	1	1	1
Total	14 (1.3)	10 (1.3)	14 (1.2)