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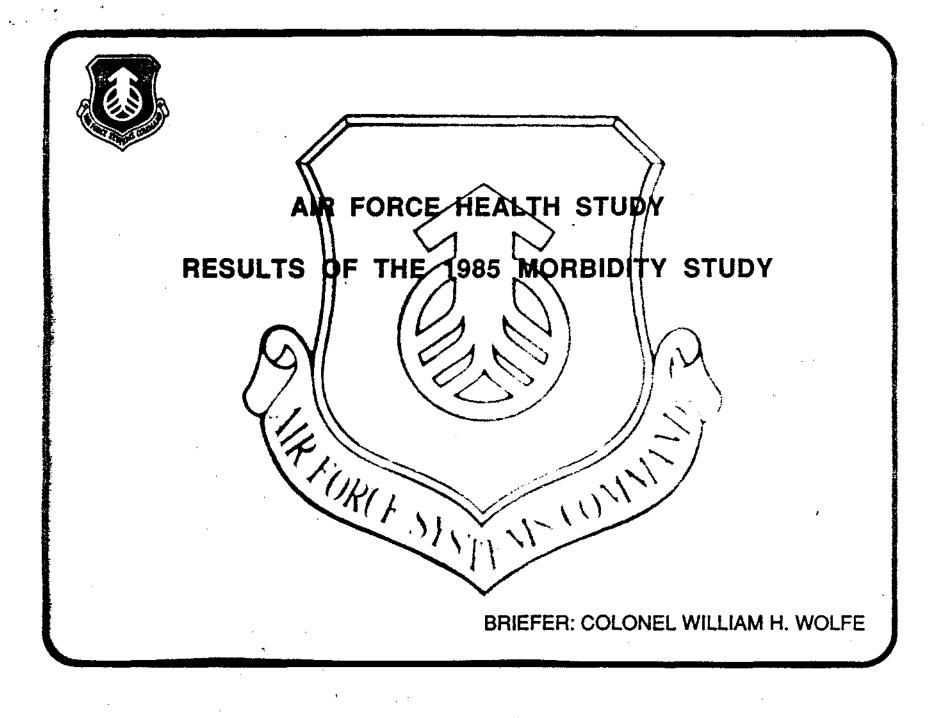
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AIR FORCE HEALTH STUDY PHASE III RESULTS MAY 1985 - MARCH 1986

- EXAMINATION OF 2309 PARTICIPANTS
 - 93% OF ALL PHASE I PARTICIPANTS
 - 1016 RANCH HANDS
 - 1293 COMPARISONS
- CONTRACTORS:
 - SAIC, McLEAN, VA
 - SCRIPPS CLINIC, LA JOLLA, CA
 - NORC, CHICAGO, IL



CHARACTERISTICS OF THE PARTICIPANTS

.

	RANCH HANDS	COMPARISONS
EAN AGE	46.9 YRS	46.8 YRS
URRENT SMOKERS*	40.1%	35.0%
LCOHOL USE INCE 1982	88.7%	88.7%
OLLEGE EDUCATED	48.6%	49.3%
ETIRED MILITARY	54.4%	52.8% [′]



PHYSICAL EXAMINATION FORMAT

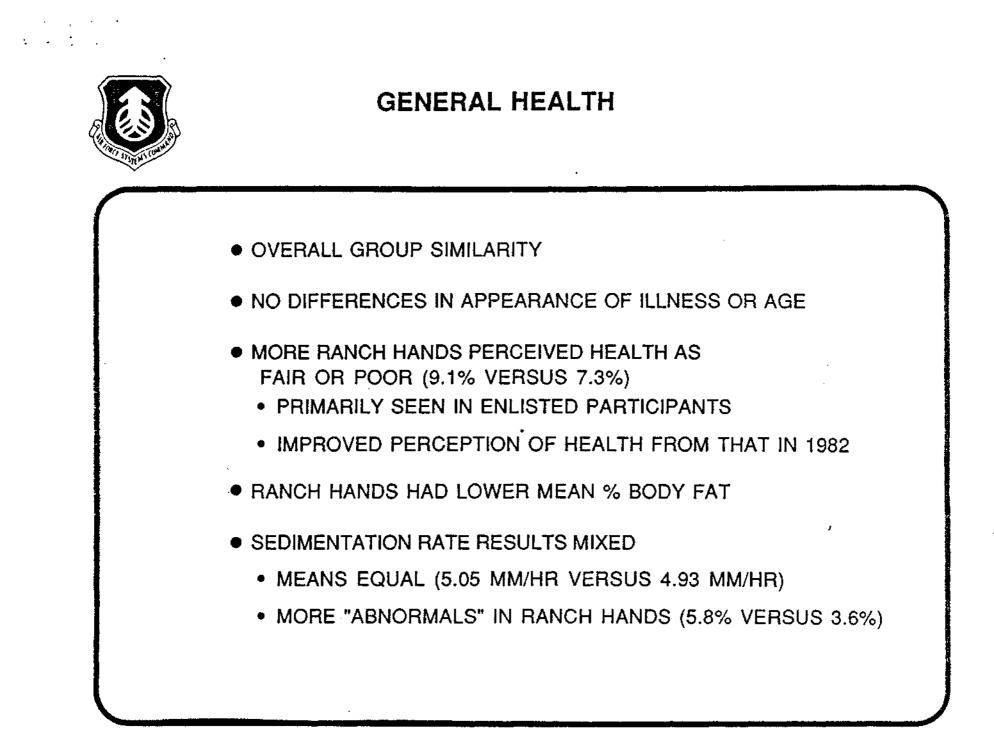
- GENERAL EXAMINATION
- NEUROLOGICAL EXAMINATION
- DERMATOLOGICAL EXAMINATION
- DOPPLER EVALUATION OF PULSES
- CHEST X-RAY
- PSYCHOLOGICAL STUDIES
- 33 CLINICAL LABORATORY TESTS
- IMMUNOLOGICAL STUDIES

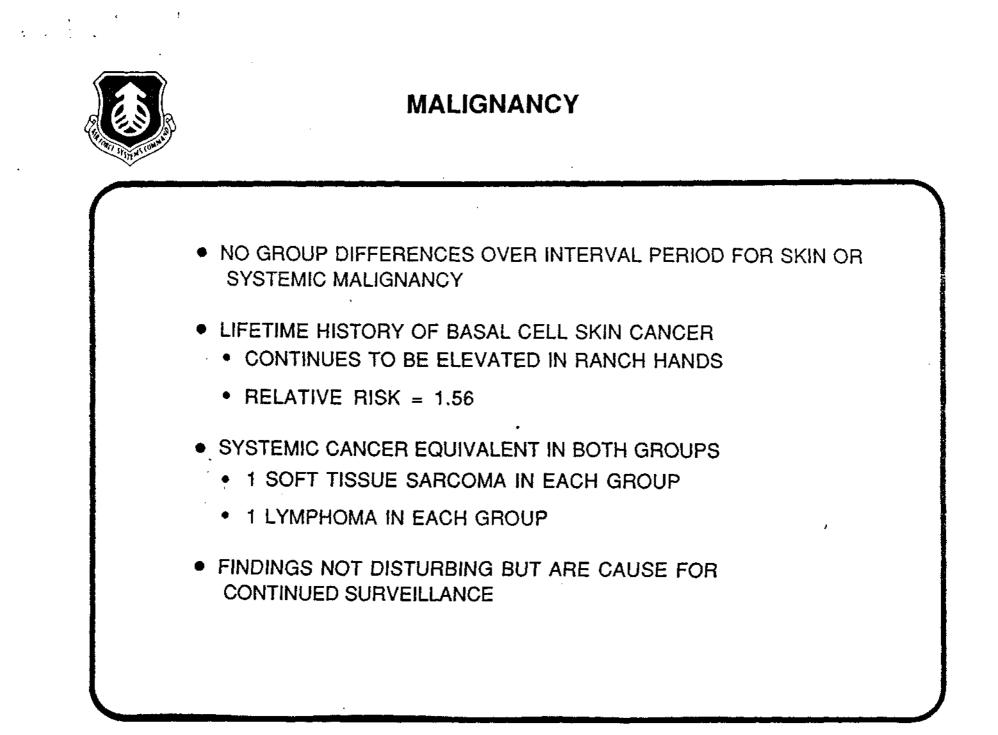


QUALITY ASSURANCE PROGRAM



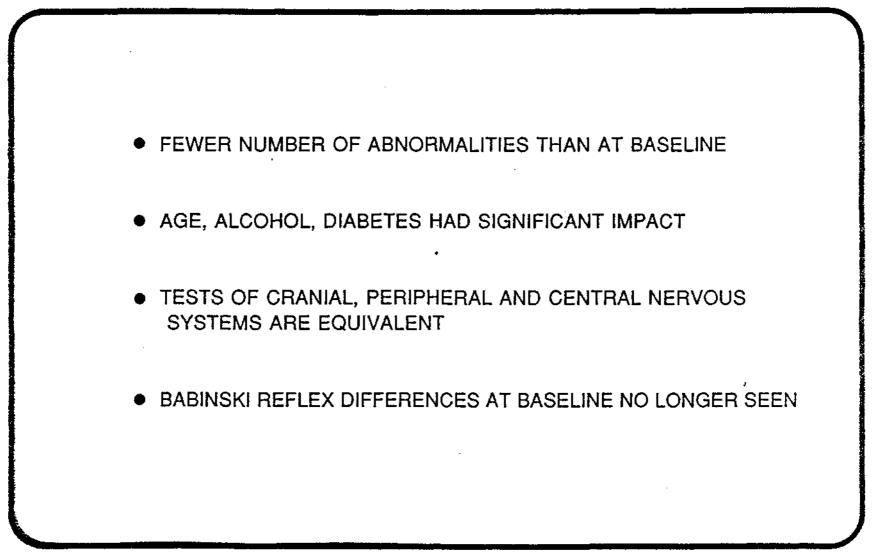
- STRICT LABORATORY QUALITY CONTROL
- MARK-SENSE FORMS USED FOR DATA COLLECTION
- EXAMINERS UNAWARE OF PARTICIPANT STATUS
- ON-SITE MONITOR PRESENT THROUGHOUT EXAMINATION PERIOD

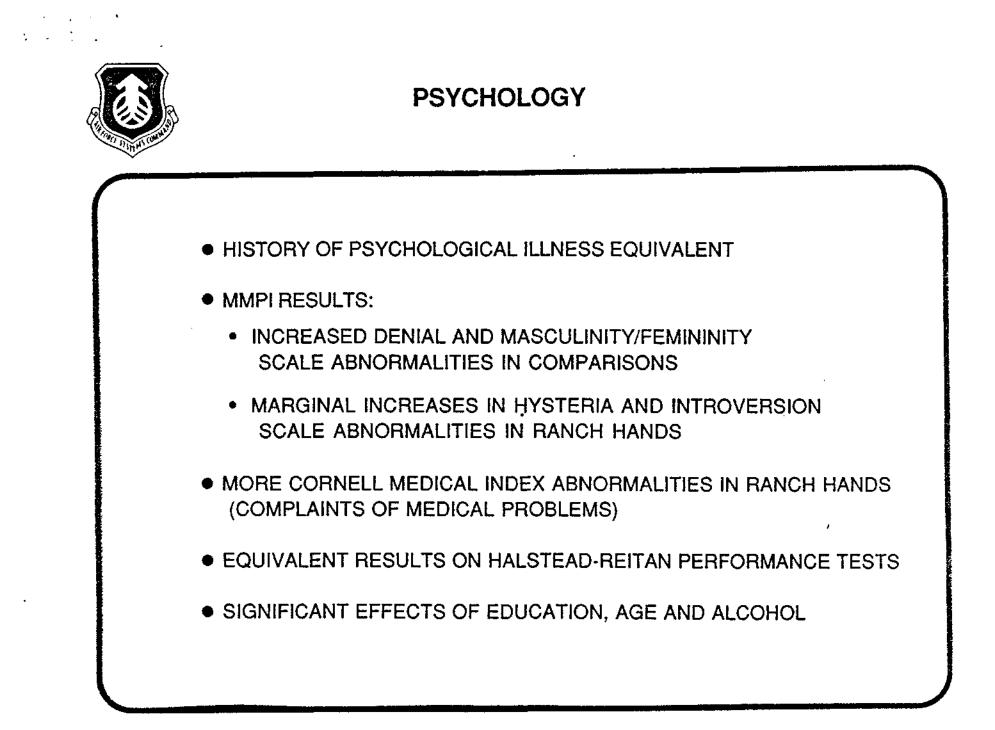






NEUROLOGY







GASTROINTESTINAL/HEPATIC

- EQUIVALENT HISTORY OF LIVER DISEASE AND ULCERS
- 11 LABORATORY ASSAYS OF HEPATIC FUNCTION
 - INCREASED SGPT AND UROPORPHYRINS IN COMPARISONS
 - INCREASED ALKALINE PHOSPHATASE IN RANCH HANDS
 - BORDERLINE ELEVATION OF COPROPORPHYRIN IN RANCH HANDS
 - NO EVIDENCE OF PORPHYRIA CUTANEA TARDA
 - ABNORMALITIES EQUALLY DIVIDED IN THE TWO GROUPS .



DERMATOLOGY

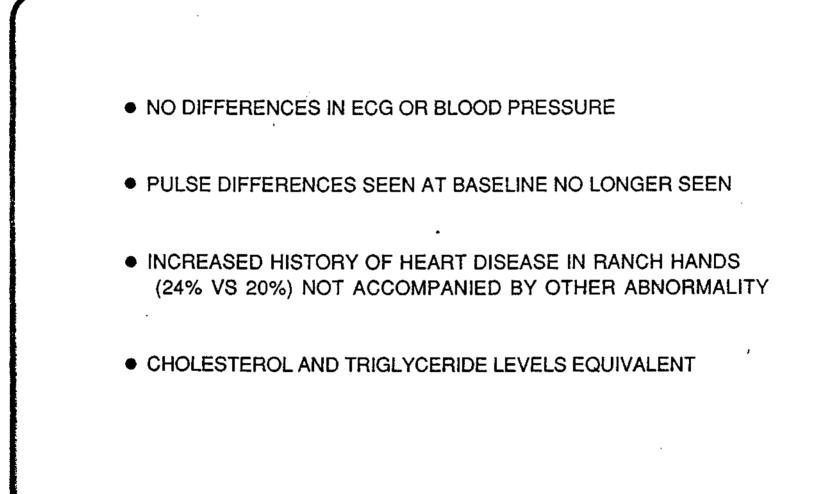
- NO CHLORACNE DIAGNOSED
- EQUIVALENT HISTORY OF SKIN DISEASE
- NO GROUP DIFFERENCES IN DIAGNOSED SKIN DISORDERS

HEMATOLOGY

- EQUIVALENCE IN 8 LABORATORY TESTS
- AGE, RACE, OCCUPATION SMOKING HAD SIGNIFICANT EFFECT



CARDIOVASCULAR





1

RENAL

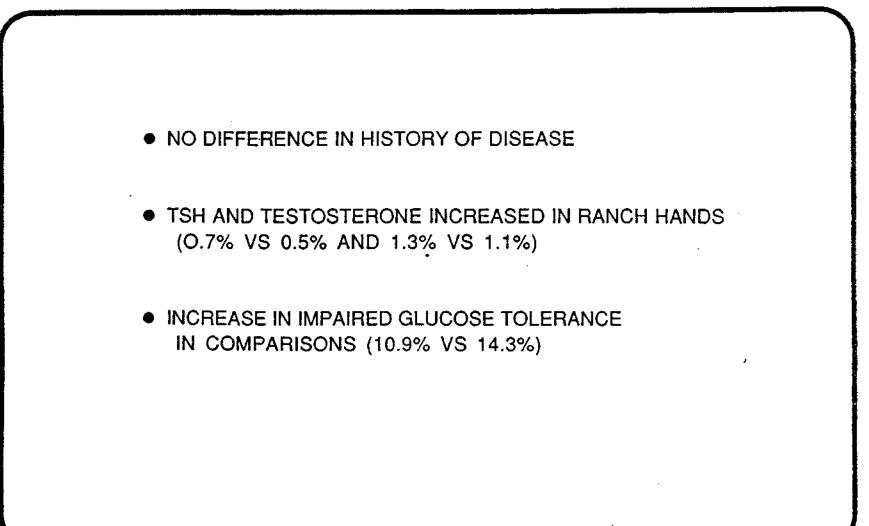
- NO DIFFERENCES IN HISTORY OF RENAL DISEASE CHANGE NOTED FROM BASELINE
- EQUIVALENCE IN 5 LABORATORY TESTS

PULMONARY

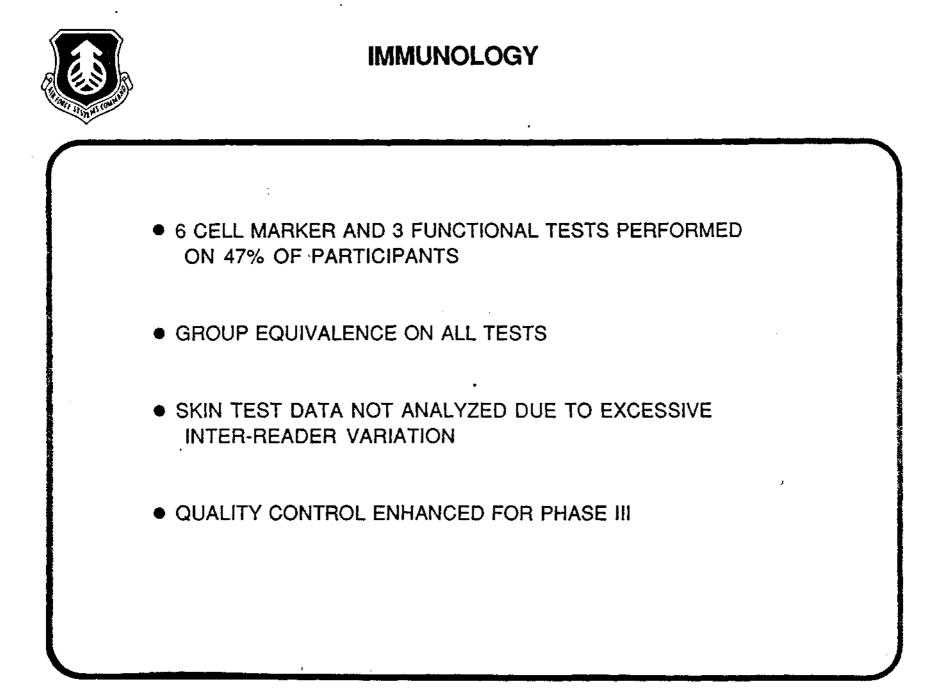
- NO DIFFERENCES SEEN EXCEPT IN INCREASED RALES IN RANCH HANDS
- NO PATTERN SUGGESTING DISEASE DIFFERENTIAL



ENDOCRINOLOGY



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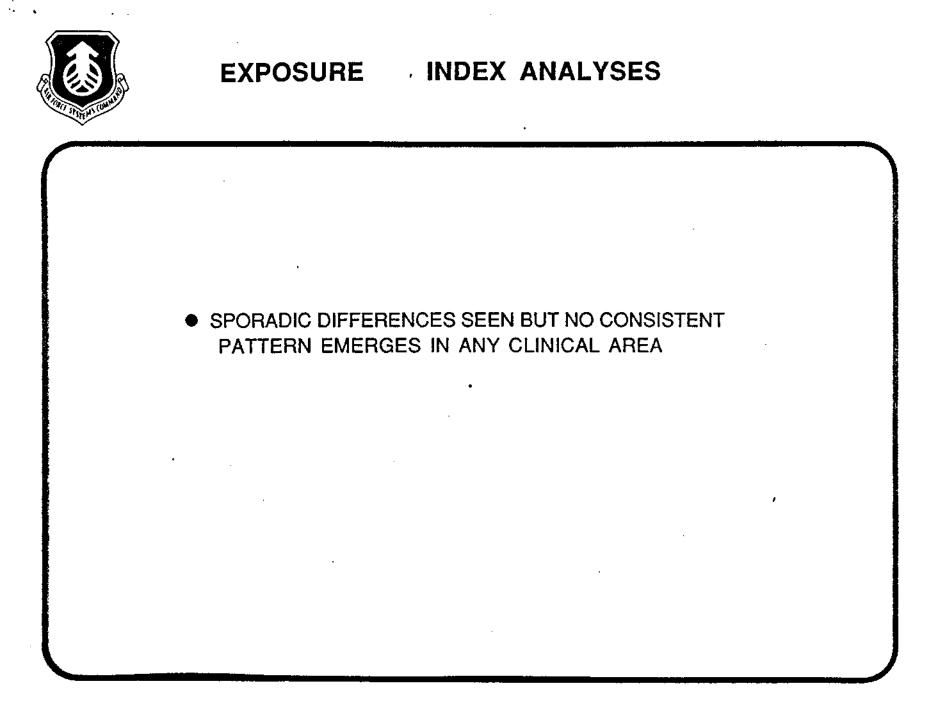


LONGITUDINAL ANALYSES

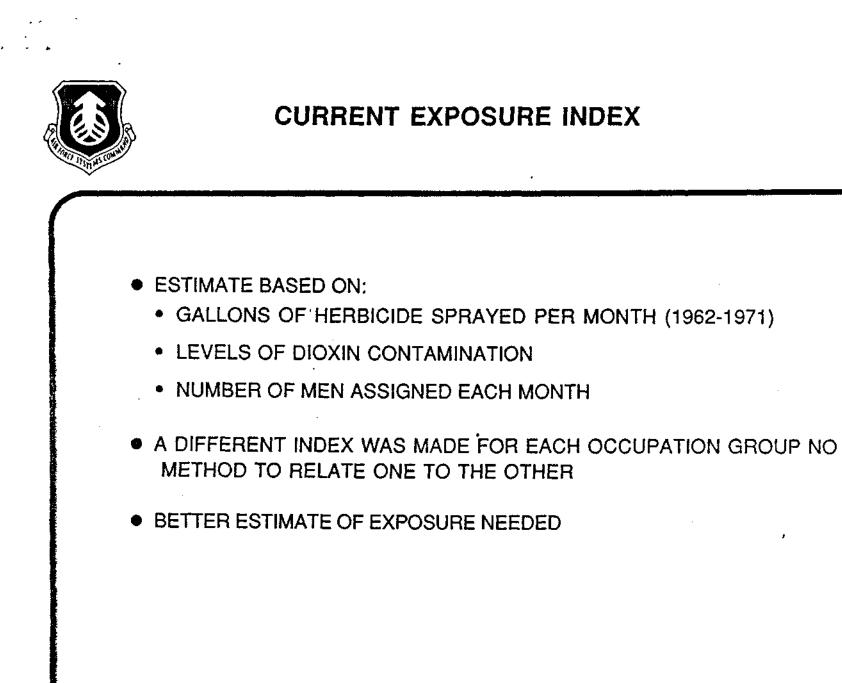


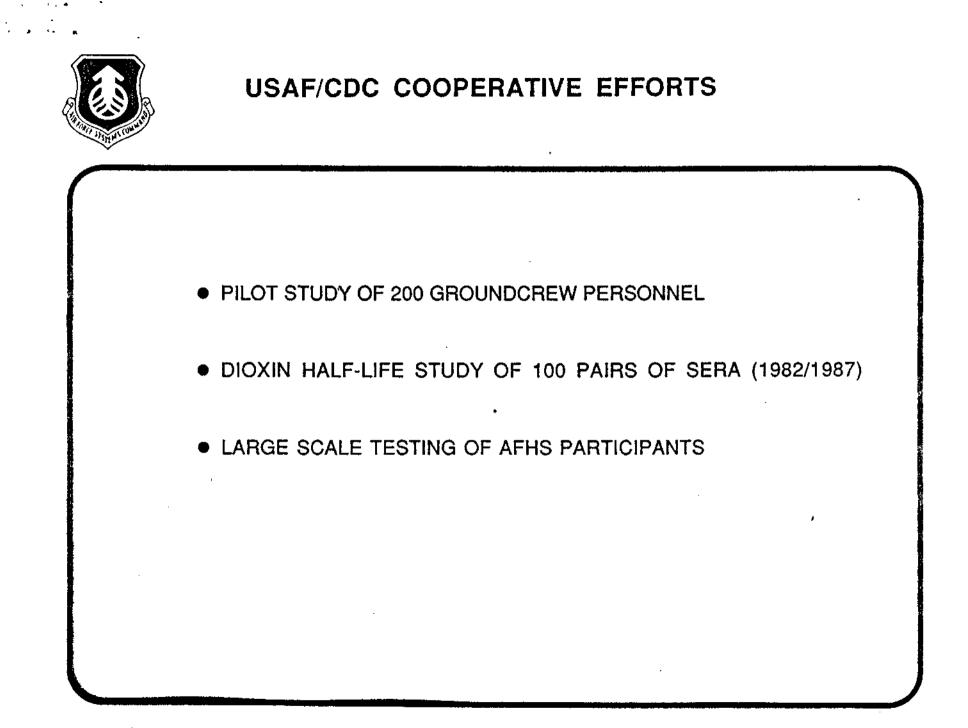
- EACH PARTICIPANT ACTED AS HIS OWN "CONTROL" GROUP CHANGES OVER TIME ASSESSED
- 5 SIGNIFICANT CHANGES
 - SEDIMENTATION RATE (METHOD CHANGE)
 - . BABINSKI REFLEX
 - DEPRESSION (MMPI)
 - PLATELET COUNT
 - PULSES

- GROUP EQUIVALENCE AT FOLLOWUP
- NO DETRIMENTS TO RANCH HANDS



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