

**APPENDIX S**

**Glossary of Abbreviations**

-A-

AC - adjusted core analyses  
ACA<sup>®</sup> - automated chemical analyser  
ACD-A - acid citrate dextrose -  
Solution A  
ADL - above detection limit  
Adj. RR - adjusted relative risk  
AE - adjusted exposure index  
analyses  
AFB - Air Force base  
AFHS - Air Force Health Study  
AGE - age at Baseline (in 1982)  
ALC - current alcohol use  
ALT - alanine aminotransferase  
AMDIPHEN - aminodiphenyl exposure  
ANTH - anthracene exposure  
ARS - arsenic exposure  
ASB - asbestos exposure  
AST - asparatate aminotransferase

-B-

BATCH - batch-to-batch variation  
among examination groups  
BDL - below detection limit  
BENZ - benzene exposure  
BENZID - benzidene exposure  
BMDP<sup>®</sup>-4F - BMDP<sup>®</sup> log-linear program

BMDP<sup>®</sup>-LR - BMDP<sup>®</sup> logistic regression  
program  
BR - base rate  
BSL-2 - National Institutes of  
Health Biosafety Level 2  
BUN - blood urea nitrogen

-C-

C - continuous analysis only  
C>RH - higher mean in Comparisons  
than in Ranch Hands  
CA - dependent variable-  
covariate associations  
CARCIN - composite carcinogen  
exposure  
CBC - complete blood count  
CC - Pearson's product moment  
correlation coefficient  
CDC - Centers for Disease Control  
CHD - coronary heart disease  
CHECO - contemporary historical  
evaluation and combat  
operations  
CHLMETETH - chloromethyl ether exposure  
CHOL - cholesterol  
CHOL/HDL - cholesterol-HDL ratio  
CHROM - chromate exposure  
C.I. - confidence interval  
CMI - Cornell Medical Index

CNS - central nervous system  
 COALTAR - coal tar exposure  
 CONC - mitogen concentration  
 COV - covariate  
 CPK - creatine phosphokinase  
 cpm - counts per minute  
 CREOS - creosote exposure  
 CS - Chi-square contingency table test  
 CSMOK - current cigarette smoking  
 CUSUM - cumulative sum  
 CUTOIL - cutting oil exposure  
 CV - coefficient of variation

-D-

D - discrete analysis only  
 DAY - mitogen harvest day  
 DAY(BATCH) - blood-draw day-to-day variation within batch  
 DC - degreasing chemical exposure  
 D/C - discrete and continuous analyses for dependent variables; appropriate form for analysis (either discrete or continuous) for covariates  
 DCH - delayed cutaneous hypersensitivity  
 DEP - dependent variable

d.f. - degrees of freedom  
 DIAB - diabetic class  
 DIFCORT - differential cortisol  
 DNA - deoxyribonucleic acid  
 DRKYR - lifetime alcohol history

-E-

ECG - electrocardiograph  
 EDUC - education  
 EEG - electroencephalogram  
 Est. RR - estimated relative risk  
 ETHBACK - ethnic background  
 EXC - exclusion  
 EYE - eye color

-F-

FCS - fetal calf serum  
 FEFmax - maximum forced expiratory flow  
 FEF<sub>25-75</sub> - forced midexpiratory flow rate  
 FEV - forced expiratory volume  
 FEV<sub>1</sub> - forced expiratory volume in one second  
 FEV<sub>2</sub> - forced expiratory volume in two seconds  
 FEV<sub>3</sub> - forced expiratory volume in three seconds

FIR CUSUM - fast initial response  
cumulative sum

FS - frequency summary

FSH - follicle stimulating  
hormone

FT - Fisher's exact test

FTI - free thyroxine index

FVC - forced vital capacity

-G-

GGT/GGTP - gamma-glutamyl  
transpeptidase

GLM - general linear model

GRP - group

GSI - global severity index

-H-

H - high exposure index level

HAIR - hair color

HB<sub>s</sub>Ag - hepatitis B surface antigen

HDL - high density lipoprotein

HERB - herbicide exposure

HPF - high-power field

HRB - Halstead-Reitan battery

HRTDIS - family history of heart  
disease

HRTDIS50 - family history of heart  
disease before age 50

-I-

IC - industrial chemical  
exposure

ICD - International  
Classification of Disease

ICD-9-CM - International  
Classification of Disease  
9th Revision, Clinical  
Modification

INS - insecticide exposure

IQ - intelligence quotient

-L-

L - longitudinal analyses/low  
exposure index level

LAB - 1987 SCRF laboratory  
results/1987 SIRL  
laboratory results

LAB (1985) - 1985 SCRF laboratory  
results

LAT - average lifetime  
residential latitude

LBBB - left bundle branch block

LDH - lactic dehydrogenase

LH - luteinizing hormone

LL - log-linear models analysis

LR - logistic regression  
analysis

LT - linear trend test in  
proportions

LWINE - lifetime wine history

-M-

M - million  
MM - millimolar  
MCH - mean corpuscular hemoglobin  
MCHC - mean corpuscular hemoglobin concentration  
MCM I - Million Clinical Multiaxial Inventory  
MCPA - (2,4-dichlorophenoxy)-acetic acid  
MCV - mean corpuscular volume  
MIL - Air Force military records  
ML - malignant lymphoma  
MLC - mixed lymphocyte culture  
MMPI - Minnesota Multiphasic Personality Inventory  
MUSTGAS - mustard gas exposure

-N-

NAPTHYL - naphthylamine exposure  
NIOSH - National Institute for Occupational Safety and Health  
NHL - non-Hodgkin's lymphoma  
NKCA - natural killer cell assay  
NKCI - natural killer cell assay with Interleukin 2  
NORC - National Opinion Research Center  
NOS - not otherwise specified

NS - not significant  
NS\* - borderline or marginally significant  
-O-  
OCC - occupation  
OMR - Optical Mark Recognition  
OR - chi-square test on the odds ratio

-P-

PACKYR - lifetime cigarette smoking history  
PBM - peripheral blood mononuclear  
PCT - porphyria cutanea tarda  
PE - 1987 SCRF physical examination  
PE (1985) - 1985 SCRF physical examination/1985 SCRF physical examination updated with 1987 SCRF information for new/rejoining participants  
%BFAT - percent body fat  
PERS - personality type  
PFU - plaque-forming unit  
PHA - phytohemagglutinin  
PMR - proportionate mortality ratio

PO	- proportional odds model analysis	RH>C	- higher mean value in Ranch Hands than in Comparisons
POMS	- profile of mood states	RH <sup>H</sup> >C <sup>H</sup>	- Ranch Hand percent abnormally high greater than Comparison percent abnormally high
ppm	- parts per million		
PSDI	- positive symptom distress index	RIA	- radioimmunoassay
PST	- positive symptom total	RM	- repeated measures analysis
PTSD	- post-traumatic stress disorder	RPR	- rapid plasma reagin
PWM	- pokeweed mitogen	RR	- relative risk
		RVN	- Republic of Vietnam
	-Q-		-S-
QA	- quality assurance	SAIC	- Science Applications International Corporation
QC	- quality control	SAS®-GLM	- SAS® general linear model
QRC	- Quality Review Committee	SCL-90-R	- Symptom Check List-90-Revised
Q-SR	- 1987 NORC questionnaire (self-reported)/1987 Family and Personal History questionnaire (self-reported)	SCRF	- Scripps Clinic and Research Foundation
Q-SR (1985)	- 1985 NORC questionnaire (self-reported)	SEA	- Southeast Asia
Q-V	- 1987 NORC questionnaire (verified)	SEAACNE	- presence of pre-SEA acne
	-R-	SGOT	- serum glutamic-oxaloacetic transaminase
RAD	- ionizing radiation exposure	SGPT	- serum glutamic-pyruvic transaminase
RACE	- race	SIRL	- Scripps Immunology Reference Laboratory
RBBB	- right bundle branch block	SKIN	- skin color
RBC	- red blood cell count	STS	- soft tissue sarcoma
		SUNREAC	- sun-reaction index

SUNREPEAT - reaction of skin to sun after repeated exposure

SUN2HR - reaction of skin to sun after at least 2 hours after first exposure (assuming several preceding episodes)

-T-

T<sub>3</sub> % - triiodothyronine percent

T<sub>4</sub> - total thyroxine

TCDD - 2,3,7,8-tetrachloro-dibenzo-p-dioxin

TCP - trichlorophenol

TIMESEA - time reference of acne relative to SEA

TLC - total lymphocyte count

TRICHTHLETH - trichloroethylene exposure

TSH - thyroid stimulating hormone

TT - two-sample t-test

-U-

UC - unadjusted core analyses

UE - unadjusted exposure index analyses

ULTLIGHT - ultraviolet light (not sun) exposure

USAF - U.S. Air Force

-V-

V - verified neoplastic conditions only

VA - Veterans Administration

VINCHL - vinyl chloride exposure

VS - verified and suspected neoplastic conditions combined

-W-

WAIS - Wechsler Adult Intelligence Scale

WBC - white blood cell count

WHO - World Health Organization

WINE - current wine use