

TABLE Q-4. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 1: Ranch Hands - Log₂ (Initial Dioxin)

Clinical Parameter	Reference Chapter	Minimal Assumption		Maximal Assumption	
		Est. Relative Risk (95% C.I.)	p-Value	Est. Relative Risk (95% C.I.)	p-Value
Enlisted Flyer-Ear, Face, Head, and Neck vs. None	7	0.55 (0.17,1.82)	0.290	0.58 (0.27,1.24)	0.138
Enlisted Flyer-Other Sites vs. None	7	2.28 (0.98,5.33)	0.050	2.48 (1.13,5.44)	0.015
Enlisted Groundcrew- Ear, Face, Head, and Neck vs. None	7	0.43 (0.22,0.84)	0.005	0.65 (0.41,1.03)	0.051
Enlisted Groundcrew- Other Sites vs. None	7	0.56 (0.27,1.18)	0.096	0.83 (0.49,1.43)	0.501
<u>Sun Exposure-Related Malignant</u>					
<u>Skin Neoplasm by Occupation</u>					
Officer-Ear, Face, Head, and Neck vs. None	7	0.83 (0.18,3.80)	0.804	1.40 (0.69,2.83)	0.355
Officer-Other Sites vs. None	7	0.61 (0.04,8.63)	0.700	0.90 (0.32,2.49)	0.833
Enlisted Flyer-Ear, Face, Head, and Neck vs. None	7	0.54 (0.18,1.63)	0.233	0.62 (0.30,1.25)	0.157
Enlisted Flyer-Other Sites vs. None	7	2.27 (0.97,5.30)	0.052	2.47 (1.13,5.42)	0.015
Enlisted Groundcrew- Ear, Face, Head, and Neck vs. None	7	0.54 (0.30,0.97)	0.022	0.73 (0.48,1.12)	0.133
Enlisted Groundcrew- Other Sites vs. None	7	0.57 (0.27,1.18)	0.098	0.84 (0.49,1.44)	0.507
Basal Cell Carcinoma (One vs. None)	7	0.82 (0.58,1.16)	0.244	0.89 (0.69,1.13)	0.314
Basal Cell Carcinoma (Multiple vs. None)	7	0.49 (0.24,1.01)	0.026	0.74 (0.48,1.14)	0.147
All Systemic Neoplasms	7	1.13 (0.89,1.42)	0.319	1.28 (1.07,1.53)	0.009
Malignant Systemic Neoplasms	7	0.56 (0.29,1.07)	0.048	0.90 (0.60,1.35)	0.598
Benign Systemic Neoplasms	7	1.36 (1.05,1.76)	0.022	1.41 (1.15,1.72)	0.001
Systemic Neoplasms of Uncertain Behavior or Unspecified Nature	7	0.82 (0.28,2.34)	0.693	1.17 (0.55,2.52)	0.691
<u>Systemic Neoplasm: Location/Site</u>					
Ear, Face, Head, and Neck	7	--	--	--	--
Oral Cavity, Pharynx, and Larynx	7	--	--	--	--
Brain	7	--	--	--	--
Thymus and Mediastinum	7	--	--	--	--
Thyroid Gland	7	--	--	--	--
Bronchus and Lung	7	--	--	--	--
Colon and Rectum	7	--	--	--	--
Kidney and Bladder	7	0.64 (0.23,1.83)	0.368	0.86 (0.43,1.73)	0.673
Prostate	7	0.64 (0.15,2.82)	0.522	1.04 (0.39,2.81)	0.933

TABLE Q-4. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 1: Ranch Hands - Log₂ (Initial Dioxin)

Clinical Parameter	Reference Chapter	Minimal Assumption		Maximal Assumption	
		Est. Relative Risk (95% C.I.)	p-Value	Est. Relative Risk (95% C.I.)	p-Value
Testicles	7	0.59 (0.17,2.09)	0.363	1.00 (0.44,2.30)	0.999
Ill-Defined Sites	7	--	--	--	--
Carcinoma in Situ of Penis	7	--	--	--	--
Carcinoma in Situ of Other and Unspecified Sites	7	--	--	--	--
Hodgkin's Disease	7	--	--	--	--
Leukemia	7	--	--	--	--
Other Malignant Neoplasms of Lymphoid and Histiocytic Tissue	7	--	--	0.84 (0.27,2.57)	0.745
All Skin and Systemic Neoplasms	7	0.93 (0.78,1.10)	0.384	1.03 (0.91,1.17)	0.661
Inflammatory Diseases	8	1.18 (0.41,3.43)	0.761	1.46 (0.62,3.46)	0.409
Heredity and Degenerative Diseases	8	0.90 (0.62,1.31)	0.565	0.94 (0.72,1.24)	0.684
Peripheral Disorders	8	1.01 (0.83,1.24)	0.900	1.00 (0.86,1.16)	0.999
Disorders of the Eye	8	1.05 (0.87,1.26)	0.602	1.05 (0.92,1.21)	0.475
Tympanic Membrane Disorder	8	0.94 (0.68,1.29)	0.684	1.01 (0.80,1.27)	0.959
Otitis	8	1.04 (0.82,1.31)	0.761	0.90 (0.76,1.08)	0.246
Hearing Loss	8	0.95 (0.81,1.11)	0.504	0.94 (0.84,1.06)	0.344
Other Neurological Disorders	8	1.07 (0.91,1.26)	0.392	1.24 (1.09,1.40)	<0.001
Smell	8	0.61 (0.21,1.79)	0.324	0.88 (0.44,1.75)	0.708
Visual Fields	8	--	--	--	--
Light Reaction	8	1.49 (0.67,3.30)	0.346	0.98 (0.54,1.77)	0.950
Ocular Movement	8	0.97 (0.37,2.53)	0.958	1.02 (0.51,2.08)	0.944
Facial Sensation	8	0.87 (0.31,2.40)	0.779	1.21 (0.57,2.58)	0.628
Smile	8	1.87 (0.88,3.98)	0.124	1.24 (0.69,2.21)	0.485
Palpebral Fissure	8	1.27 (0.76,2.14)	0.376	1.13 (0.75,1.70)	0.564
Balance	8	1.10 (0.36,3.30)	0.871	1.39 (0.58,3.34)	0.479
Speech	8	--	--	--	--
Neck Range of Motion	8	1.04 (0.82,1.31)	0.748	0.92 (0.78,1.10)	0.356
Cranial Nerve Index	8	1.03 (0.83,1.26)	0.812	0.95 (0.81,1.10)	0.467
Cranial Nerve Index Without Range of Motion	8	1.05 (0.75,1.48)	0.760	1.06 (0.82,1.37)	0.653
Pin Prick	8	1.01 (0.76,1.34)	0.941	1.05 (0.85,1.30)	0.632
Light Touch	8	0.99 (0.69,1.40)	0.928	1.01 (0.78,1.30)	0.940
Muscle Status	8	1.03 (0.61,1.71)	0.922	1.17 (0.79,1.72)	0.439
Vibration	8	0.87 (0.50,1.52)	0.620	1.07 (0.72,1.60)	0.737
Patellar Reflex	8	1.12 (0.68,1.83)	0.661	1.23 (0.84,1.79)	0.304
Achilles Reflex	8	0.95 (0.70,1.28)	0.718	1.14 (0.91,1.42)	0.273
Biceps Reflex	8	--	--	--	--
Babinski Reflex	8	1.37 (0.51,3.73)	0.552	1.62 (0.70,3.75)	0.285
Tremor	8	1.08 (0.69,1.67)	0.744	1.08 (0.78,1.50)	0.643
Coordination	8	1.25 (0.74,2.11)	0.414	1.35 (0.89,2.06)	0.178

TABLE Q-4. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 1: Ranch Hands - Log₂ (Initial Dioxin)**

Clinical Parameter	Reference Chapter	Minimal Assumption		Maximal Assumption	
		Est. Relative Risk (95% C.I.)	p-Value	Est. Relative Risk (95% C.I.)	p-Value
Romberg Sign	8	1.10 (0.36,3.30)	0.871	1.39 (0.58,3.34)	0.479
Gait	8	1.27 (0.87,1.87)	0.236	1.25 (0.93,1.69)	0.154
CNS Index	8	1.23 (0.92,1.64)	0.171	1.24 (0.99,1.55)	0.064
Psychoses	9	0.64 (0.36,1.14)	0.099	1.04 (0.70,1.54)	0.841
Alcohol Dependence	9	1.00 (0.76,1.30)	0.999	1.09 (0.89,1.32)	0.413
Drug Dependence	9	--	--	--	--
Anxiety	9	1.14 (0.95,1.37)	0.159	1.16 (1.01,1.34)	0.034
Other Neuroses	9	1.08 (0.94,1.25)	0.268	1.17 (1.05,1.30)	0.004
Trouble Falling Asleep	9	0.97 (0.75,1.24)	0.779	1.01 (0.84,1.22)	0.875
Waking Up During The Night	9	0.92 (0.74,1.13)	0.411	0.96 (0.82,1.12)	0.632
Waking Up Too Early and Can't Go Back to Sleep	9	0.94 (0.74,1.18)	0.576	1.01 (0.85,1.21)	0.874
Waking Up Unrefreshed	9	1.15 (0.93,1.43)	0.213	1.21 (1.03,1.43)	0.027
Involuntarily Falling Asleep During the Day	9	0.85 (0.59,1.24)	0.399	1.02 (0.79,1.33)	0.871
Great or Disabling Fatigue During the Day	9	0.92 (0.65,1.31)	0.653	1.13 (0.87,1.46)	0.372
Frightening Dreams	9	1.19 (0.88,1.61)	0.270	1.33 (1.04,1.68)	0.025
Talking in Sleep	9	1.14 (0.85,1.54)	0.389	1.21 (0.96,1.53)	0.112
Sleepwalking	9	1.03 (0.67,1.59)	0.894	1.13 (0.82,1.56)	0.462
Abnormal Movement/Activity During the Night	9	1.09 (0.78,1.52)	0.613	1.23 (0.95,1.60)	0.126
Sleep Problems Requiring Medication	9	0.63 (0.32,1.23)	0.136	0.76 (0.49,1.18)	0.193
Snore Loudly in All Sleeping Positions	9	0.94 (0.73,1.21)	0.629	1.11 (0.92,1.34)	0.290
Insomnia	9	0.92 (0.77,1.09)	0.338	0.98 (0.86,1.11)	0.694
Overall Sleep Disorder Index	9	0.95 (0.82,1.10)	0.476	1.03 (0.92,1.14)	0.662
SCL-90-R					
Anxiety	9	1.21 (0.94,1.56)	0.149	1.27 (1.04,1.55)	0.022
Depression	9	1.24 (0.98,1.57)	0.075	1.23 (1.02,1.48)	0.029
Hostility	9	1.10 (0.80,1.52)	0.555	1.21 (0.95,1.55)	0.140
Interpersonal Sensitivity	9	1.20 (0.90,1.58)	0.220	1.22 (0.98,1.52)	0.084
Obsessive-Compulsive Behavior	9	1.24 (0.98,1.58)	0.080	1.36 (1.12,1.65)	0.002
Paranoid Ideation	9	0.81 (0.54,1.22)	0.302	0.91 (0.67,1.22)	0.511
Phobic Anxiety	9	1.08 (0.82,1.42)	0.585	1.19 (0.96,1.46)	0.115
Psychoticism	9	1.20 (0.95,1.51)	0.144	1.25 (1.04,1.50)	0.022
Somatization	9	1.06 (0.84,1.33)	0.634	1.19 (0.99,1.41)	0.064
Global Severity Index	9	1.25 (0.98,1.58)	0.073	1.27 (1.06,1.53)	0.013
Positive Symptom Total	9	1.25 (0.98,1.61)	0.079	1.23 (1.01,1.49)	0.043
Positive Symptom Distress Index	9	1.01 (0.80,1.28)	0.922	1.13 (0.94,1.35)	0.187
Viral Hepatitis	10	1.04 (0.90,1.20)	0.613	1.11 (1.00,1.24)	0.051
Chronic Liver Disease and Cirrhosis (Alcohol-Related)	10	0.89 (0.62,1.29)	0.543	0.91 (0.70,1.19)	0.488

TABLE Q-4. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 1: Ranch Hands - Log₂ (Initial Dioxin)**

Clinical Parameter	Reference Chapter	Minimal Assumption		Maximal Assumption	
		Est. Relative Risk (95% C.I.)	p-Value	Est. Relative Risk (95% C.I.)	p-Value
Chronic Liver Disease and Cirrhosis (Nonalcohol-Related)	10	0.67 (0.24,1.86)	0.411	0.88 (0.44,1.75)	0.711
Other Disorders of the Liver	10	1.15 (0.92,1.45)	0.220	1.19 (1.00,1.41)	0.051
Jaundice (Unspecified)	10	1.22 (0.52,2.86)	0.655	0.83 (0.48,1.46)	0.507
Hepatomegaly	10	0.90 (0.55,1.46)	0.657	1.13 (0.80,1.61)	0.502
Ulcer	10	1.12 (0.85,1.48)	0.430	1.16 (0.94,1.43)	0.165
Skin Bruises, Patches, or Sensitivity	10	1.00 (0.86,1.17)	0.999	1.04 (0.93,1.17)	0.484
Current Hepatomegaly	10	0.89 (0.50,1.59)	0.687	1.23 (0.80,1.90)	0.361
AST	10	1.00 (0.72,1.40)	0.999	1.05 (0.82,1.33)	0.720
ALT	10	1.13 (0.93,1.38)	0.235	1.18 (1.02,1.38)	0.031
GGT	10	1.07 (0.85,1.35)	0.574	1.20 (1.00,1.43)	0.052
Alkaline Phosphatase	10	1.21 (0.89,1.64)	0.245	1.25 (0.98,1.59)	0.077
D-Glucaric Acid	10	0.73 (0.18,2.88)	0.631	0.72 (0.30,1.71)	0.430
Total Bilirubin	10	0.46 (0.24,0.89)	0.007	0.68 (0.46,1.00)	0.033
Direct Bilirubin	10	0.68 (0.43,1.06)	0.064	0.90 (0.66,1.21)	0.473
LDH	10	0.60 (0.13,2.77)	0.470	0.47 (0.18,1.28)	0.083
Cholesterol	10	0.93 (0.75,1.15)	0.472	0.94 (0.80,1.09)	0.392
HDL	10	1.18 (0.83,1.68)	0.357	1.11 (0.85,1.46)	0.439
Cholesterol-HDL Ratio	10	1.14 (0.99,1.31)	0.077	1.22 (1.09,1.35)	<0.001
Triglycerides	10	1.32 (1.05,1.67)	0.021	1.31 (1.10,1.57)	0.004
Creatine Kinase	10	0.77 (0.53,1.11)	0.144	0.86 (0.67,1.11)	0.228
Occurrence of Acne (Lifetime)	11	0.94 (0.82,1.09)	0.430	0.99 (0.89,1.09)	0.787
Acne Relative to SEA Tour (Pre/Post-SEA and Post-SEA vs. Pre-SEA and None)	11	0.97 (0.84,1.11)	0.623	1.01 (0.91,1.12)	0.839
Acne Relative to SEA Tour (Post-SEA vs. None)	11	0.92 (0.79,1.07)	0.292	0.97 (0.86,1.08)	0.531
Acne Relative to SEA Tour (Pre/Post-SEA vs. Pre-SEA)	11	1.82 (0.78,4.25)	0.111	1.92 (1.04,3.53)	0.013
Location of Acne (Post-SEA)	11	1.08 (0.81,1.42)	0.611	0.94 (0.76,1.16)	0.554
Location of Acne (Pre/Post-SEA and Post-SEA)	11	1.14 (0.90,1.44)	0.289	0.98 (0.82,1.17)	0.808
Comedones	11	1.09 (0.92,1.30)	0.335	1.06 (0.93,1.20)	0.398
Acneiform Lesions	11	0.97 (0.77,1.22)	0.763	1.17 (0.98,1.39)	0.080
Acneiform Scars	11	1.19 (0.97,1.47)	0.105	1.17 (1.00,1.37)	0.058
Depigmentation	11	0.91 (0.68,1.21)	0.498	1.06 (0.86,1.30)	0.599
Inclusion Cysts	11	0.94 (0.73,1.20)	0.615	0.86 (0.72,1.03)	0.098
Hyperpigmentation	11	1.10 (0.91,1.33)	0.319	1.22 (1.06,1.40)	0.008
Other Abnormalities	11	0.91 (0.77,1.06)	0.226	0.89 (0.79,1.00)	0.057
Dermatology Index	11	1.06 (0.92,1.23)	0.410	1.07 (0.96,1.19)	0.246

TABLE Q-4. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 1: Ranch Hands - Log₂ (Initial Dioxin)**

Clinical Parameter	Reference Chapter	Minimal Assumption		Maximal Assumption	
		Est. Relative Risk (95% C.I.)	p-Value	Est. Relative Risk (95% C.I.)	p-Value
Reported/Verified Essential Hypertension	12	1.09 (0.93,1.29)	0.300	1.11 (0.98,1.24)	0.098
Reported Heart Disease (Excluding Essential Hypertension)	12	0.88 (0.74,1.05)	0.149	0.85 (0.75,0.96)	0.007
Verified Heart Disease (Excluding Essential Hypertension)	12	0.88 (0.74,1.04)	0.138	0.84 (0.75,0.95)	0.006
Reported/Verified Myocardial Infarction	12	0.91 (0.62,1.32)	0.609	1.13 (0.86,1.48)	0.380
Systolic Blood Pressure	12	0.98 (0.80,1.20)	0.849	1.07 (0.93,1.24)	0.330
Heart Sounds	12	0.93 (0.62,1.40)	0.726	0.98 (0.73,1.31)	0.875
Overall ECG	12	0.92 (0.74,1.15)	0.443	0.97 (0.83,1.14)	0.712
ECG: RBBB	12	1.21 (0.40,3.70)	0.737	1.01 (0.43,2.34)	0.985
ECG: LBBB	12	--	--	--	--
ECG: Nonspecific T-Waves	12	0.89 (0.69,1.14)	0.347	1.04 (0.87,1.24)	0.694
ECG: Bradycardia	12	0.77 (0.46,1.29)	0.298	0.75 (0.53,1.07)	0.092
ECG: Arrhythmia	12	1.25 (0.85,1.84)	0.270	1.08 (0.81,1.43)	0.601
ECG: Other Diagnoses	12	0.85 (0.67,1.07)	0.146	0.88 (0.75,1.04)	0.122
Diastolic Blood Pressure	12	0.95 (0.67,1.36)	0.784	1.05 (0.81,1.36)	0.728
Funduscopy Examination	12	1.22 (0.40,3.72)	0.727	0.94 (0.44,1.99)	0.868
Carotid Bruits	12	0.63 (0.21,1.85)	0.357	0.81 (0.42,1.58)	0.517
Radial Pulses	12	--	--	--	--
Femoral Pulses	12	0.90 (0.51,1.59)	0.703	1.02 (0.68,1.53)	0.922
Popliteal Pulses	12	0.67 (0.39,1.16)	0.124	0.96 (0.67,1.37)	0.802
Dorsalis Pedis Pulses	12	1.13 (0.89,1.42)	0.322	1.16 (0.98,1.38)	0.089
Posterior Tibial Pulses	12	0.81 (0.51,1.27)	0.333	1.17 (0.85,1.61)	0.346
Leg Pulses	12	1.05 (0.85,1.31)	0.636	1.15 (0.98,1.35)	0.085
Peripheral/All Pulses	12	1.04 (0.84,1.29)	0.718	1.15 (0.98,1.34)	0.092
Red Blood Cell Count	13	1.22 (0.81,1.86)	0.357	1.13 (0.82,1.56)	0.453
Hematocrit	13	0.98 (0.56,1.70)	0.943	1.11 (0.74,1.68)	0.611
Mean Corpuscular Volume	13	1.00 (0.80,1.24)	0.999	1.12 (0.95,1.32)	0.179
Mean Corpuscular Hemoglobin	13	1.11 (0.87,1.43)	0.404	1.11 (0.92,1.34)	0.287
Platelet Count	13	1.20 (0.80,1.80)	0.398	1.28 (0.94,1.76)	0.133
Prothrombin Time	13	1.08 (0.71,1.65)	0.722	0.98 (0.72,1.35)	0.924
Kidney Disease	14	0.99 (0.78,1.26)	0.942	1.01 (0.85,1.20)	0.927
Urinary Protein	14	0.96 (0.68,1.36)	0.840	1.00 (0.78,1.29)	0.984
Urinary Occult Blood	14	1.16 (0.91,1.47)	0.242	1.20 (1.00,1.44)	0.059
Urinary White Blood Cell Count	14	1.04 (0.80,1.34)	0.786	1.10 (0.91,1.34)	0.343
Current Thyroid Function	15	0.83 (0.54,1.28)	0.378	0.86 (0.64,1.15)	0.298
History of Thyroid Disease	15	1.13 (0.79,1.62)	0.508	1.03 (0.79,1.33)	0.833
Thyroid Gland	15	0.97 (0.82,1.14)	0.712	1.04 (0.92,1.17)	0.553
Testes	15	1.24 (0.87,1.75)	0.243	1.27 (0.97,1.66)	0.091
T ₃ % Uptake	15	0.76 (0.47,1.23)	0.240	0.80 (0.59,1.10)	0.158
TSH	15	1.23 (0.79,1.94)	0.373	1.05 (0.75,1.48)	0.765

TABLE Q-4. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 1: Ranch Hands - Log₂ (Initial Dioxin)**

Clinical Parameter	Reference Chapter	Minimal Assumption		Maximal Assumption	
		Est. Relative Risk (95% C.I.)	p-Value	Est. Relative Risk (95% C.I.)	p-Value
Testosterone	15	0.88 (0.54,1.43)	0.589	1.10 (0.78,1.56)	0.581
Fasting Glucose	15	1.25 (1.03,1.50)	0.022	1.29 (1.12,1.49)	<0.001
Composite Diabetes Indicator	15	1.27 (1.04,1.56)	0.023	1.33 (1.13,1.55)	<0.001
Composite Skin Tests Diagnosi	16	0.89 (0.63,1.27)	0.519	0.85 (0.66,1.10)	0.207
Asthma	17	0.91 (0.59,1.41)	0.678	0.89 (0.66,1.22)	0.473
Bronchitis	17	0.88 (0.70,1.11)	0.269	0.88 (0.75,1.04)	0.128
Pleurisy	17	1.29 (0.89,1.87)	0.190	1.19 (0.89,1.58)	0.253
Pneumonia	17	0.94 (0.71,1.25)	0.693	0.94 (0.77,1.15)	0.545
Tuberculosis	17	0.80 (0.49,1.32)	0.359	0.86 (0.61,1.22)	0.386
Thorax and Lung Abnormalities	17	1.09 (0.85,1.40)	0.510	1.17 (0.96,1.42)	0.131
Hyperresonance	17	1.04 (0.74,1.48)	0.808	1.13 (0.87,1.48)	0.359
Dullness	17	1.89 (0.76,4.75)	0.196	2.07 (0.90,4.74)	0.094
Wheezes	17	1.34 (0.93,1.93)	0.132	1.28 (0.95,1.71)	0.112
Rales	17	1.23 (0.73,2.09)	0.448	1.19 (0.78,1.81)	0.429
X-Ray Interpretation	17	1.04 (0.74,1.47)	0.823	1.03 (0.80,1.32)	0.844

--: Estimated relative risk, confidence interval, and p-value not given due to the sparse number of abnormalities.
Note: Estimated relative risk for a twofold increase in dioxin.

TABLE Q-5.

**Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time**

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Self-Perception of Health	6	0.056	≤18.6 >18.6	0.64 (0.34,1.20) 1.22 (0.89,1.67)	0.166 0.213	0.314	≤18.6 >18.6	1.00 (0.68,1.48) 1.27 (0.99,1.63)	0.996 0.065
Appearance of Illness or Distress by Physician	6	0.203	≤18.6 >18.6	0.28 (0.01,10.02) 1.71 (0.68,4.30)	0.488 0.253	0.396	≤18.6 >18.6	0.88 (0.16,4.80) 1.88 (0.82,4.30)	0.880 0.138
Relative Age	6	0.039	≤18.6 >18.6	1.73 (1.06,2.81) 0.86 (0.53,1.38)	0.027 0.526	0.024	≤18.6 >18.6	1.50 (1.04,2.15) 0.85 (0.60,1.20)	0.028 0.349
Percent Body Fat	6	0.776	≤18.6 >18.6	1.18 (0.91,1.54) 1.24 (1.01,1.53)	0.217 0.045	0.320	≤18.6 >18.6	1.40 (1.15,1.70) 1.23 (1.04,1.45)	0.001 0.013
Sedimentation Rate	6	0.262	≤18.6 >18.6	0.78 (0.46,1.33) 1.10 (0.81,1.49)	0.360 0.548	0.228	≤18.6 >18.6	0.96 (0.67,1.39) 1.26 (0.99,1.60)	0.845 0.065
All Skin Neoplasms	7	0.646	≤18.6 >18.6	0.69 (0.48,1.01) 0.77 (0.58,1.03)	0.054 0.083	0.253	≤18.6 >18.6	0.80 (0.62,1.01) 0.96 (0.78,1.18)	0.062 0.671
Malignant Skin Neoplasms	7	0.528	≤18.6 >18.6	0.61 (0.37,0.99) 0.74 (0.50,1.12)	0.046 0.156	0.797	≤18.6 >18.6	0.83 (0.62,1.13) 0.88 (0.66,1.17)	0.241 0.386
Benign Skin Neoplasms (Non- Blacks Only)	7	0.985	≤18.6 >18.6	0.89 (0.52,1.51) 0.89 (0.62,1.28)	0.661 0.541	0.165	≤18.6 >18.6	0.80 (0.56,1.14) 1.09 (0.84,1.43)	0.220 0.516

TABLE Q-5. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Benign Skin Neoplasms (Blacks Included)	7	0.866	≤18.6 >18.6	0.85 (0.51,1.45) 0.90 (0.63,1.29)	0.559 0.573	0.154	≤18.6 >18.6	0.80 (0.55,1.14) 1.09 (0.84,1.43)	0.213 0.498
Skin Neoplasms of Uncertain Behavior or Unspecified Nature	7	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
<u>Basal Cell Carcinoma</u>	7	0.942	≤18.6 >18.6	0.71 (0.43,1.16) 0.69 (0.43,1.09)	0.167 0.110	0.999	≤18.6 >18.6	0.84 (0.61,1.16) 0.84 (0.62,1.16)	0.291 0.289
Ear, Face, Head, and Neck	7	0.282	≤18.6 >18.6	0.58 (0.29,1.17) 0.31 (0.13,0.76)	0.127 0.011	0.755	≤18.6 >18.6	0.74 (0.49,1.13) 0.67 (0.42,1.06)	0.159 0.087
Trunk	7	0.997	≤18.6 >18.6	0.88 (0.42,1.84) 0.88 (0.42,1.84)	0.730 0.729	0.906	≤18.6 >18.6	0.99 (0.60,1.64) 1.03 (0.60,1.79)	0.964 0.905
Upper Extremities	7	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- 0.25 (0.04,1.59)	-- 0.141
Lower Extremities	7	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Other Sites	7	--	≤18.6 >18.6	-- 1.29 (0.59,2.86)	-- 0.523	--	≤18.6 >18.6	-- 1.52 (0.77,2.98)	-- 0.224

TABLE Q-5. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time**

Q-33

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
<u>Sun Exposure-Related Malignant Skin Neoplasms</u>	7	0.694	≤18.6	0.63 (0.38,1.03)	0.065	0.910	≤18.6	0.84 (0.62,1.14)	0.253
			>18.6	0.72 (0.47,1.10)	0.125		>18.6	0.86 (0.64,1.15)	0.305
Ear, Face, Head, and Neck	7	0.759	≤18.6	0.54 (0.28,1.06)	0.075	0.941	≤18.6	0.76 (0.51,1.12)	0.166
			>18.6	0.47 (0.24,0.92)	0.029		>18.6	0.74 (0.49,1.11)	0.143
Trunk	7	0.872	≤18.6	0.66 (0.31,1.40)	0.277	0.927	≤18.6	0.92 (0.57,1.49)	0.738
			>18.6	0.72 (0.33,1.54)	0.397		>18.6	0.95 (0.56,1.62)	0.858
Upper Extremities	7	--	≤18.6	--	--	--	≤18.6	--	--
			>18.6	1.05 (0.36,3.02)	0.929		>18.6	0.77 (0.35,1.72)	0.528
Lower Extremities	7	--	≤18.6	--	--	--	≤18.6	--	--
			>18.6	--	--		>18.6	--	--
Other Sites	7	--	≤18.6	--	--	--	≤18.6	--	--
			>18.6	1.29 (0.59,2.86)	0.523		>18.6	1.52 (0.77,2.98)	0.224
<u>Melanoma</u>	7	--	≤18.6	--	--	--	≤18.6	--	--
			>18.6	--	--		>18.6	0.36 (0.06,2.31)	0.282
Ear, Face, Head, and Neck	7	--	≤18.6	--	--	--	≤18.6	--	--
			>18.6	--	--		>18.6	--	--
Trunk	7	--	≤18.6	--	--	--	≤18.6	--	--
			>18.6	--	--		>18.6	--	--

TABLE Q-5. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time**

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Upper Extremities	7	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Lower Extremities	7	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Other Sites	7	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Squamous Cell Carcinoma	7	--	≤18.6 >18.6	0.25 (0.02,3.48) --	0.303 --	--	≤18.6 >18.6	0.86 (0.26,2.86) --	0.804 --
Basal Cell Carcinoma by Occupation									
Officer-Ear, Face, Head, and Neck vs. None	7	0.787	≤18.6 >18.6	0.33 (0.00,39.39) 0.66 (0.08,5.86)	0.649 0.712	0.889	≤18.6 >18.6	1.27 (0.35,4.57) 1.43 (0.48,4.26)	0.719 0.524
Officer-Other Sites vs. None	7	--	≤18.6 >18.6	-- --	-- --	0.623	≤18.6 >18.6	0.31 (0.02,4.26) 0.67 (0.12,3.77)	0.380 0.648
Enlisted Flyer- Ear, Face, Head, and Neck vs. None	7	--	≤18.6 >18.6	1.08 (0.34,3.42) --	0.891 --	--	≤18.6 >18.6	0.82 (0.36,1.85) --	0.630 --
Enlisted Flyer-Other Sites vs. None	7	0.011	≤18.6 >18.6	1.05 (0.26,4.25) 29.35 (1.23,702.4)	0.944 0.037	0.017	≤18.6 >18.6	1.49 (0.52,4.26) 29.37 (1.22,708.2)	0.457 0.037

TABLE Q-5. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Enlisted Groundcrew-Ear, Face, Head, and Neck vs. None	7	0.901	≤18.6 >18.6	0.30 (0.09,1.01) 0.33 (0.11,0.98)	0.051 0.047	0.581	≤18.6 >18.6	0.53 (0.26,1.09) 0.70 (0.37,1.31)	0.086 0.265
Enlisted Groundcrew-Other Sites vs. None	7	0.980	≤18.6 >18.6	0.61 (0.24,1.58) 0.60 (0.17,2.17)	0.313 0.438	0.989	≤18.6 >18.6	0.90 (0.44,1.82) 0.90 (0.37,2.21)	0.759 0.823
<u>Sun Exposure-Related Malignant Skin Neoplasms by Occupation</u>									
Officer-Ear, Face, Head, and Neck vs. None	7	0.698	≤18.6 >18.6	0.25 (0.00,16.43) 0.61 (0.07,5.56)	0.514 0.662	0.886	≤18.6 >18.6	1.45 (0.45,4.69) 1.29 (0.45,3.67)	0.538 0.633
Officer-Other Sites vs. None	7	--	≤18.6 >18.6	-- 0.58 (0.01,25.05)	-- 0.777	0.861	≤18.6 >18.6	0.56 (0.08,4.12) 0.70 (0.15,3.31)	0.568 0.651
Enlisted Flyer-Ear, Face, Head, and Neck vs. None	7	--	≤18.6 >18.6	0.98 (0.33,2.89) --	0.972 --	--	≤18.6 >18.6	0.86 (0.41,1.82) --	0.696 --
Enlisted Flyer-Other Sites vs. None	7	0.010	≤18.6 >18.6	1.04 (0.26,4.18) 29.36 (1.22,705.1)	0.955 0.037	0.017	≤18.6 >18.6	1.48 (0.52,4.22) 29.37 (1.22,709.9)	0.459 0.038

TABLE Q-5. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time**

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Enlisted Groundcrew- Ear, Face, Head, and Neck vs. None	7	0.430	≤18.6 >18.6	0.30 (0.09,1.01) 0.53 (0.24,1.16)	0.051 0.112	0.314	≤18.6 >18.6	0.53 (0.26,1.09) 0.84 (0.49,1.43)	0.086 0.523
Enlisted Groundcrew- Other Sites vs. None	7	0.986	≤18.6 >18.6	0.61 (0.24,1.58) 0.61 (0.17,2.19)	0.313 0.444	0.983	≤18.6 >18.6	0.90 (0.44,1.82) 0.91 (0.37,2.22)	0.759 0.830
Basal Cell Carcinoma (One vs. None)	7	0.926	≤18.6 >18.6	0.77 (0.45,1.33) 0.80 (0.48,1.33)	0.347 0.388	0.874	≤18.6 >18.6	0.90 (0.63,1.28) 0.86 (0.60,1.24)	0.544 0.419
Basal Cell Carcinoma (Multiple vs. None)	7	0.866	≤18.6 >18.6	0.50 (0.16,1.60) 0.44 (0.16,1.24)	0.247 0.121	0.731	≤18.6 >18.6	0.69 (0.35,1.36) 0.81 (0.45,1.45)	0.282 0.471
All Systemic Neoplasms	7	0.445	≤18.6 >18.6	0.97 (0.64,1.47) 1.18 (0.88,1.58)	0.868 0.277	0.860	≤18.6 >18.6	1.26 (0.93,1.70) 1.22 (0.96,1.53)	0.139 0.098
Malignant Systemic Neoplasms	7	0.908	≤18.6 >18.6	0.53 (0.19,1.52) 0.49 (0.18,1.31)	0.238 0.154	0.352	≤18.6 >18.6	1.06 (0.56,2.00) 0.70 (0.38,1.28)	0.858 0.247
Benign Systemic Neoplasms	7	0.583	≤18.6 >18.6	1.21 (0.76,1.93) 1.42 (1.03,1.96)	0.414 0.035	0.879	≤18.6 >18.6	1.35 (0.95,1.91) 1.39 (1.07,1.81)	0.095 0.013
Systemic Neoplasms of Uncertain Behavior or Unspecified Nature	7	--	≤18.6 >18.6	-- 0.90 (0.28,2.90)	-- 0.865	--	≤18.6 >18.6	-- 1.19 (0.49,2.91)	-- 0.696

TABLE Q-5. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Systemic Neoplasms:									
Location/Site									
Ear, Face, Head, and Neck	7	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Oral Cavity, Pharynx, and Larynx	7	--	≤18.6 >18.6	0.81 (0.31,1.48) 1.07 (0.36,1.73)	0.003 0.003	--	≤18.6 >18.6	0.98 (0.31,1.47) 1.00 (0.32,1.45)	0.003 0.003
Brain	7	--	≤18.6 >18.6	-- 0.82 (0.37,1.19) 1.11 (0.66,1.44)	-- 0.002 0.018	--	≤18.6 >18.6	-- 0.89 (0.31,1.14) 1.07 (0.88,1.31)	-- 0.001 0.008
Thymus and Mediastinum	7	--	≤18.6 >18.6	0.93 (0.15,1.39) 1.05 (0.39,1.41) 1.08 (0.34,1.38)	0.028 0.003 0.003	--	≤18.6 >18.6	1.13 (0.30,1.38) 1.06 (0.37,1.31) 1.10 (0.90,1.33)	0.035 0.003 0.003
Thyroid Gland	7	--	≤18.6 >18.6	-- 1.07 (0.34,1.97)	-- 0.001	--	≤18.6 >18.6	-- 0.98 (0.31,1.51)	-- 0.002
Bronchus and Lung	7	--	≤18.6 >18.6	-- 0.85 (0.31,1.31)	-- 0.001	--	≤18.6 >18.6	-- 0.62 (0.20,0.90)	-- 0.003
Colon and Rectum	7	--	≤18.6 >18.6	-- 0.84 (0.30,1.38) 0.93 (0.75,1.13)	-- 0.002 0.017	--	≤18.6 >18.6	-- 0.94 (0.34,1.39) 0.97 (0.74,1.02)	-- 0.003 0.003
Kidney and Bladder	7	--	≤18.6 >18.6	-- 0.45 (0.10,1.94)	-- 0.281	--	≤18.6 >18.6	-- 0.67 (0.27,1.62)	-- 0.372

TABLE Q-5. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time**

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Prostate	7	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Testicles	7	--	≤18.6 >18.6	0.63 (0.12,3.29) --	0.581 --	--	≤18.6 >18.6	1.13 (0.39,3.28) --	0.828 --
Ill-Defined Sites	7	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Carcinoma in Situ of Penis	7	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Carcinoma in Situ of Other and Unspecified Sites	7	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Hodgkin's Disease	7	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Leukemia	7	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Other Malignant Neoplasms of Lymphoid and Histiocytic Tissue	7	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- 0.46 (0.09,2.26)	-- 0.338

TABLE Q-5. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
All Skin and Systemic Neoplasms	7	0.414	≤18.6 >18.6	0.82 (0.61,1.10) 0.96 (0.77,1.20)	0.187 0.703	0.355	≤18.6 >18.6	0.95 (0.78,1.16) 1.08 (0.91,1.28)	0.618 0.402
Inflammatory Diseases	8	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Hereditary and Degenerative Diseases	8	0.482	≤18.6 >18.6	0.81 (0.45,1.48) 1.07 (0.66,1.73)	0.495 0.790	0.936	≤18.6 >18.6	0.98 (0.65,1.47) 1.00 (0.69,1.45)	0.907 0.991
Peripheral Disorders	8	0.184	≤18.6 >18.6	0.82 (0.57,1.19) 1.11 (0.86,1.44)	0.302 0.418	0.255	≤18.6 >18.6	0.89 (0.70,1.14) 1.07 (0.88,1.31)	0.371 0.488
Disorders of the Eye	8	0.920	≤18.6 >18.6	1.05 (0.79,1.41) 1.08 (0.84,1.38)	0.720 0.563	0.832	≤18.6 >18.6	1.06 (0.87,1.31) 1.10 (0.90,1.33)	0.557 0.346
Tympanic Membrane Disorder	8	0.435	≤18.6 >18.6	1.07 (0.58,1.97) 0.80 (0.54,1.19)	0.821 0.270	0.844	≤18.6 >18.6	0.98 (0.63,1.51) 0.93 (0.69,1.24)	0.922 0.616
Otitis	8	0.791	≤18.6 >18.6	0.86 (0.49,1.51) 0.94 (0.71,1.23)	0.601 0.642	0.032	≤18.6 >18.6	0.62 (0.42,0.90) 0.97 (0.79,1.19)	0.012 0.760
Hearing Loss	8	0.555	≤18.6 >18.6	0.84 (0.66,1.08) 0.93 (0.75,1.15)	0.182 0.517	0.674	≤18.6 >18.6	0.91 (0.77,1.09) 0.87 (0.74,1.02)	0.319 0.095
Other Neurological Disorders	8	0.619	≤18.6 >18.6	1.11 (0.85,1.46) 1.02 (0.82,1.26)	0.437 0.858	0.114	≤18.6 >18.6	1.37 (1.12,1.68) 1.11 (0.94,1.31)	0.002 0.204

TABLE Q-5. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time**

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Smell	8	--	≤18.6 >18.6	0.50 (0.11,2.31) --	0.375 --	--	≤18.6 >18.6	0.86 (0.36,2.03) --	0.727 --
Visual Fields	8	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Light Reaction	8	--	≤18.6 >18.6	0.95 (0.25,3.64) --	0.943 --	0.432	≤18.6 >18.6	0.83 (0.34,1.99) 1.35 (0.57,3.17)	0.671 0.494
Ocular Movement	8	--	≤18.6 >18.6	-- 0.82 (0.20,3.41)	-- 0.783	--	≤18.6 >18.6	-- 0.88 (0.31,2.52)	-- 0.818
Facial Sensation	8	--	≤18.6 >18.6	1.55 (0.49,4.88) --	0.454 --	--	≤18.6 >18.6	1.88 (0.71,4.97) --	0.203 --
Smile	8	--	≤18.6 >18.6	-- 2.53 (0.96,6.66)	-- 0.059	--	≤18.6 >18.6	-- 1.15 (0.60,2.19)	-- 0.668
Palpebral Fissure	8	0.552	≤18.6 >18.6	0.79 (0.18,3.43) 1.25 (0.70,2.23)	0.758 0.451	0.228	≤18.6 >18.6	0.67 (0.25,1.81) 1.26 (0.78,2.02)	0.427 0.347
Balance	8	--	≤18.6 >18.6	-- 0.92 (0.18,4.70)	-- 0.921	--	≤18.6 >18.6	-- 1.21 (0.34,4.24)	-- 0.770
Speech	8	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --

TABLE Q-5. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Neck Range of Motion	8	0.110	≤18.6	0.74 (0.47,1.18)	0.207	0.024	≤18.6	0.71 (0.52,0.96)	0.024
			>18.6	1.14 (0.86,1.52)	0.359		>18.6	1.08 (0.86,1.34)	0.516
Cranial Nerve Index	8	0.114	≤18.6	0.76 (0.51,1.14)	0.186	0.021	≤18.6	0.74 (0.57,0.97)	0.027
			>18.6	1.11 (0.86,1.43)	0.424		>18.6	1.09 (0.89,1.32)	0.411
Cranial Nerve Index Without Range of Motion	8	0.620	≤18.6	0.89 (0.46,1.72)	0.725	0.509	≤18.6	0.93 (0.59,1.46)	0.750
			>18.6	1.08 (0.72,1.63)	0.716		>18.6	1.12 (0.81,1.55)	0.499
Pin Prick	8	0.123	≤18.6	0.80 (0.50,1.29)	0.363	0.971	≤18.6	1.06 (0.77,1.45)	0.743
			>18.6	1.28 (0.88,1.87)	0.194		>18.6	1.06 (0.80,1.42)	0.676
Light Touch	8	0.023	≤18.6	0.59 (0.30,1.17)	0.129	0.401	≤18.6	0.89 (0.59,1.35)	0.583
			>18.6	1.43 (0.92,2.22)	0.111		>18.6	1.12 (0.80,1.56)	0.517
Muscle Status	8	0.869	≤18.6	1.07 (0.51,2.25)	0.859	0.629	≤18.6	1.30 (0.75,2.25)	0.348
			>18.6	0.98 (0.44,2.15)	0.953		>18.6	1.07 (0.59,1.94)	0.835
Vibration	8	0.847	≤18.6	0.87 (0.28,2.72)	0.806	0.885	≤18.6	1.06 (0.49,2.30)	0.879
			>18.6	0.76 (0.38,1.53)	0.438		>18.6	0.99 (0.61,1.63)	0.974
Patellar Reflex	8	0.820	≤18.6	1.16 (0.48,2.80)	0.740	0.786	≤18.6	1.27 (0.66,2.44)	0.470
			>18.6	1.02 (0.54,1.93)	0.945		>18.6	1.13 (0.69,1.86)	0.615
Achilles Reflex	8	0.049	≤18.6	0.59 (0.31,1.10)	0.098	0.305	≤18.6	0.97 (0.65,1.43)	0.861
			>18.6	1.17 (0.82,1.69)	0.387		>18.6	1.24 (0.93,1.66)	0.143

TABLE Q-5. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Biceps Reflex	8	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Babinski Reflex	8	--	≤18.6 >18.6	-- 0.96 (0.20,4.72)	-- 0.964	--	≤18.6 >18.6	-- 1.24 (0.36,4.30)	-- 0.734
Tremor	8	0.402	≤18.6 >18.6	1.41 (0.71,2.79) 0.95 (0.52,1.75)	0.326 0.877	0.101	≤18.6 >18.6	1.56 (0.92,2.65) 0.87 (0.55,1.37)	0.102 0.548
Coordination	8	0.312	≤18.6 >18.6	1.69 (0.75,3.79) 0.94 (0.42,2.11)	0.206 0.885	0.128	≤18.6 >18.6	2.00 (1.00,4.03) 0.99 (0.53,1.84)	0.051 0.962
Romberg Sign	8	--	≤18.6 >18.6	-- 0.92 (0.18,4.70)	-- 0.921	--	≤18.6 >18.6	-- 1.21 (0.34,4.24)	-- 0.770
Gait	8	0.880	≤18.6 >18.6	1.18 (0.49,2.84) 1.10 (0.62,1.73)	0.705 0.692	0.824	≤18.6 >18.6	1.08 (0.58,2.04) 1.17 (0.82,1.68)	0.806 0.382
CNS Index	8	0.383	≤18.6 >18.6	1.43 (0.87,2.34) 1.08 (0.74,1.57)	0.159 0.686	0.256	≤18.6 >18.6	1.44 (0.99,2.10) 1.09 (0.82,1.46)	0.056 0.541
Psychoses	9	0.351	≤18.6 >18.6	0.81 (0.41,1.62) 0.42 (0.11,1.57)	0.552 0.197	0.361	≤18.6 >18.6	1.27 (0.78,2.08) 0.85 (0.40,1.81)	0.334 0.669
Alcohol Dependence	9	0.393	≤18.6 >18.6	1.14 (0.73,1.78) 0.89 (0.62,1.27)	0.551 0.529	0.163	≤18.6 >18.6	1.27 (0.92,1.77) 0.94 (0.73,1.22)	0.151 0.657

TABLE Q-5. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Drug Dependence	9	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Anxiety	9	0.700	≤18.6 >18.6	1.14 (0.85,1.52) 1.23 (0.95,1.58)	0.381 0.111	0.418	≤18.6 >18.6	1.26 (1.02,1.55) 1.12 (0.92,1.35)	0.034 0.263
Other Neuroses	9	0.294	≤18.6 >18.6	1.20 (0.95,1.51) 1.02 (0.84,1.23)	0.136 0.874	0.082	≤18.6 >18.6	1.30 (1.09,1.53) 1.06 (0.92,1.23)	0.003 0.420
Trouble Falling Asleep	9	0.683	≤18.6 >18.6	0.94 (0.64,1.37) 1.05 (0.74,1.48)	0.747 0.802	0.537	≤18.6 >18.6	1.10 (0.84,1.44) 0.98 (0.75,1.27)	0.488 0.863
Waking Up During the Night	9	0.772	≤18.6 >18.6	0.97 (0.70,1.34) 0.91 (0.67,1.22)	0.838 0.517	0.356	≤18.6 >18.6	1.04 (0.83,1.31) 0.89 (0.71,1.12)	0.745 0.325
Waking Up Too Early and Can't Go Back to Sleep	9	0.286	≤18.6 >18.6	1.07 (0.75,1.53) 0.82 (0.58,1.15)	0.705 0.252	0.566	≤18.6 >18.6	1.09 (0.85,1.40) 0.98 (0.77,1.26)	0.509 0.884
Waking Up Unrefreshed	9	0.509	≤18.6 >18.6	0.99 (0.66,1.48) 1.16 (0.89,1.52)	0.950 0.272	0.361	≤18.6 >18.6	1.07 (0.81,1.43) 1.27 (1.02,1.57)	0.620 0.030
Involuntarily Falling Asleep During the Day	9	0.135	≤18.6 >18.6	1.13 (0.67,1.91) 0.61 (0.33,1.16)	0.638 0.132	0.075	≤18.6 >18.6	1.28 (0.88,1.88) 0.77 (0.51,1.18)	0.201 0.229

TABLE Q-5. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time**

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Great or Disabling Fatigue During the Day	9	0.943	≤18.6 >18.6	0.88 (0.50,1.53) 0.90 (0.56,1.46)	0.644 0.671	0.386	≤18.6 >18.6	1.25 (0.84,1.87) 0.99 (0.69,1.42)	0.265 0.948
Frightening Dreams	9	0.744	≤18.6 >18.6	1.35 (0.87,2.09) 1.21 (0.77,1.92)	0.179 0.406	0.379	≤18.6 >18.6	1.56 (1.11,2.19) 1.24 (0.86,1.79)	0.011 0.241
Talking in Sleep	9	0.728	≤18.6 >18.6	1.27 (0.82,1.98) 1.14 (0.74,1.75)	0.286 0.550	0.768	≤18.6 >18.6	1.31 (0.94,1.83) 1.22 (0.86,1.71)	0.115 0.260
Sleepwalking	9	0.166	≤18.6 >18.6	0.83 (0.42,1.64) 1.55 (0.85,2.82)	0.582 0.151	0.990	≤18.6 >18.6	1.14 (0.70,1.85) 1.14 (0.72,1.80)	0.592 0.581
Abnormal Movement/ Activity During the Night	9	0.706	≤18.6 >18.6	1.19 (0.72,1.95) 1.04 (0.64,1.69)	0.500 0.883	0.910	≤18.6 >18.6	1.27 (0.87,1.84) 1.31 (0.88,1.94)	0.210 0.178
Sleep Problems Requiring Medication	9	0.655	≤18.6 >18.6	0.42 (0.10,1.80) 0.61 (0.26,1.44)	0.244 0.261	0.939	≤18.6 >18.6	0.72 (0.33,1.56) 0.69 (0.39,1.24)	0.403 0.213
Snore Loudly in All Sleeping Positions	9	0.665	≤18.6 >18.6	0.96 (0.61,1.52) 0.85 (0.61,1.17)	0.866 0.320	0.891	≤18.6 >18.6	1.10 (0.80,1.52) 1.07 (0.84,1.36)	0.557 0.575
Insomnia	9	0.402	≤18.6 >18.6	1.02 (0.78,1.33) 0.87 (0.68,1.12)	0.883 0.283	0.077	≤18.6 >18.6	1.11 (0.92,1.34) 0.88 (0.73,1.05)	0.283 0.156
Overall Sleep Disorder Index	9	0.336	≤18.6 >18.6	1.05 (0.82,1.33) 0.90 (0.73,1.10)	0.717 0.290	0.160	≤18.6 >18.6	1.13 (0.95,1.34) 0.96 (0.82,1.12)	0.162 0.586

TABLE Q-5. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time**

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
<u>SCL-90-R</u>									
Anxiety	9	0.183	≤18.6	1.01 (0.66,1.54)	0.959	0.868	≤18.6	1.26 (0.92,1.72)	0.153
			>18.6	1.45 (1.03,2.05)	0.031		>18.6	1.30 (0.99,1.71)	0.057
Depression	9	0.222	≤18.6	1.09 (0.74,1.59)	0.688	0.961	≤18.6	1.27 (0.95,1.69)	0.101
			>18.6	1.48 (1.07,2.04)	0.017		>18.6	1.26 (0.98,1.62)	0.075
Hostility	9	0.988	≤18.6	1.12 (0.66,1.89)	0.685	0.543	≤18.6	1.33 (0.90,1.98)	0.152
			>18.6	1.11 (0.73,1.69)	0.630		>18.6	1.14 (0.82,1.58)	0.450
Interpersonal Sensitivity	9	0.482	≤18.6	1.43 (0.96,2.14)	0.082	0.315	≤18.6	1.46 (1.07,1.99)	0.018
			>18.6	1.16 (0.75,1.78)	0.499		>18.6	1.15 (0.82,1.62)	0.415
Obsessive-Compulsive Behavior	9	0.283	≤18.6	1.07 (0.72,1.61)	0.730	0.999	≤18.6	1.37 (1.01,1.87)	0.043
			>18.6	1.42 (1.03,1.96)	0.031		>18.6	1.37 (1.06,1.78)	0.018
Paranoid Ideation	9	0.474	≤18.6	0.96 (0.57,1.61)	0.865	0.206	≤18.6	1.12 (0.77,1.64)	0.561
			>18.6	0.68 (0.31,1.51)	0.344		>18.6	0.74 (0.42,1.28)	0.277
Phobic Anxiety	9	0.222	≤18.6	0.89 (0.56,1.42)	0.628	0.764	≤18.6	1.23 (0.88,1.71)	0.232
			>18.6	1.28 (0.89,1.82)	0.178		>18.6	1.15 (0.87,1.52)	0.337
Psychoticism	9	0.661	≤18.6	1.10 (0.73,1.66)	0.655	0.756	≤18.6	1.27 (0.94,1.73)	0.122
			>18.6	1.23 (0.91,1.67)	0.182		>18.6	1.20 (0.94,1.53)	0.147
Somatization	9	0.015	≤18.6	0.70 (0.45,1.09)	0.116	0.620	≤18.6	1.09 (0.81,1.47)	0.554
			>18.6	1.33 (0.99,1.79)	0.061		>18.6	1.20 (0.95,1.52)	0.122

TABLE Q-5. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time**

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Global Severity Index	9	0.301	≤18.6 >18.6	1.11 (0.75,1.63) 1.44 (1.04,1.98)	0.609 0.026	0.893	≤18.6 >18.6	1.31 (0.98,1.75) 1.28 (0.99,1.64)	0.069 0.061
Positive Symptom Total	9	0.944	≤18.6 >18.6	1.29 (0.87,1.89) 1.31 (0.93,1.85)	0.201 0.125	0.447	≤18.6 >18.6	1.36 (1.01,1.82) 1.16 (0.88,1.53)	0.041 0.282
Positive Symptom Distress Index	9	0.643	≤18.6 >18.6	0.95 (0.65,1.39) 1.07 (0.77,1.48)	0.787 0.691	0.783	≤18.6 >18.6	1.16 (0.88,1.52) 1.10 (0.85,1.41)	0.291 0.465
Viral Hepatitis	10	0.588	≤18.6 >18.6	1.04 (0.82,1.33) 0.96 (0.79,1.16)	0.722 0.672	0.296	≤18.6 >18.6	1.14 (0.96,1.35) 1.01 (0.87,1.17)	0.131 0.879
Chronic Liver Disease and Cirrhosis (Alcohol-Related)	10	0.317	≤18.6 >18.6	1.10 (0.60,2.02) 0.74 (0.45,1.22)	0.747 0.236	0.463	≤18.6 >18.6	1.01 (0.65,1.55) 0.82 (0.57,1.16)	0.977 0.259
Chronic Liver Disease and Cirrhosis (Nonalcohol-Related)	10	--	≤18.6 >18.6	0.67 (0.18,2.48) --	0.553 --	--	≤18.6 >18.6	0.90 (0.39,2.09) --	0.807 --
Other Disorders of the Liver	10	0.535	≤18.6 >18.6	1.22 (0.81,1.85) 1.04 (0.79,1.39)	0.338 0.768	0.408	≤18.6 >18.6	1.26 (0.93,1.70) 1.07 (0.86,1.33)	0.143 0.531
Jaundice (Unspecified)	10	0.344	≤18.6 >18.6	0.92 (0.23,3.59) 2.21 (0.60,8.15)	0.899 0.235	0.426	≤18.6 >18.6	1.03 (0.42,2.56) 0.62 (0.27,1.42)	0.947 0.260

TABLE Q-5. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Hepatomegaly	10	0.921	≤18.6 >18.6	0.93 (0.47,1.84) 0.98 (0.48,1.98)	0.830 0.944	0.363	≤18.6 >18.6	1.37 (0.82,2.22) 0.98 (0.57,1.66)	0.266 0.928
Ulcer	10	0.885	≤18.6 >18.6	1.10 (0.67,1.83) 1.05 (0.74,1.50)	0.703 0.768	0.845	≤18.6 >18.6	1.14 (0.80,1.63) 1.09 (0.83,1.44)	0.460 0.525
Skin Bruises, Patches, or Sensitivity	10	0.657	≤18.6 >18.6	1.06 (0.82,1.36) 0.98 (0.80,1.21)	0.659 0.869	0.800	≤18.6 >18.6	1.08 (0.90,1.29) 1.05 (0.89,1.23)	0.396 0.572
Current Hepatomegaly	10	0.986	≤18.6 >18.6	0.99 (0.46,2.12) 0.98 (0.39,2.43)	0.973 0.959	0.800	≤18.6 >18.6	1.41 (0.79,2.52) 1.25 (0.61,2.57)	0.244 0.537
AST	10	0.467	≤18.6 >18.6	0.80 (0.40,1.59) 1.06 (0.72,1.57)	0.520 0.760	0.800	≤18.6 >18.6	0.96 (0.61,1.51) 1.03 (0.77,1.37)	0.853 0.858
ALT	10	0.267	≤18.6 >18.6	1.33 (0.96,1.84) 1.05 (0.80,1.37)	0.082 0.729	0.338	≤18.6 >18.6	1.30 (1.03,1.66) 1.12 (0.91,1.37)	0.028 0.285
GGT	10	0.728	≤18.6 >18.6	1.11 (0.75,1.65) 1.02 (0.75,1.38)	0.599 0.908	0.522	≤18.6 >18.6	1.27 (0.95,1.71) 1.13 (0.89,1.42)	0.108 0.320
Alkaline Phosphatase	10	0.377	≤18.6 >18.6	0.91 (0.48,1.75) 1.27 (0.88,1.83)	0.787 0.200	0.281	≤18.6 >18.6	1.01 (0.65,1.58) 1.35 (1.01,1.83)	0.952 0.046
D-Glucaric Acid	10	--	≤18.6 >18.6	-- --	-- --	0.394	≤18.6 >18.6	0.93 (0.29,3.00) 0.39 (0.07,2.27)	0.899 0.292

TABLE Q-5. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time**

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Total Bilirubin	10	0.517	≤18.6 >18.6	0.55 (0.21,1.43) 0.34 (0.12,0.98)	0.221 0.045	0.820	≤18.6 >18.6	0.64 (0.35,1.16) 0.70 (0.41,1.21)	0.141 0.204
Direct Bilirubin	10	0.961	≤18.6 >18.6	0.67 (0.34,1.33) 0.69 (0.37,1.27)	0.255 0.233	0.893	≤18.6 >18.6	0.93 (0.59,1.45) 0.89 (0.58,1.37)	0.748 0.595
LDH	10	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	0.27 (0.05,1.38) --	0.116 --
Cholesterol	10	0.388	≤18.6 >18.6	0.83 (0.58,1.19) 1.01 (0.77,1.34)	0.309 0.924	0.837	≤18.6 >18.6	0.91 (0.71,1.15) 0.94 (0.76,1.16)	0.427 0.556
HDL	10	0.705	≤18.6 >18.6	1.24 (0.64,2.38) 1.06 (0.68,1.66)	0.519 0.787	0.587	≤18.6 >18.6	0.99 (0.62,1.59) 1.17 (0.82,1.65)	0.982 0.382
Cholesterol-HDL Ratio	10	0.113	≤18.6 >18.6	0.96 (0.76,1.22) 1.23 (1.01,1.50)	0.741 0.039	0.399	≤18.6 >18.6	1.12 (0.95,1.33) 1.24 (1.07,1.44)	0.168 0.005
Triglycerides	10	0.948	≤18.6 >18.6	1.32 (0.89,1.95) 1.30 (0.96,1.76)	0.162 0.094	0.814	≤18.6 >18.6	1.35 (1.01,1.80) 1.29 (1.01,1.64)	0.045 0.044
Creatine Kinase	10	0.065	≤18.6 >18.6	0.49 (0.24,1.01) 1.05 (0.67,1.64)	0.053 0.836	0.413	≤18.6 >18.6	0.77 (0.51,1.16) 0.96 (0.68,1.35)	0.210 0.813
Occurrence of Acne (Lifetime)	11	0.115	≤18.6 >18.6	1.16 (0.91,1.47) 0.90 (0.75,1.10)	0.236 0.306	0.006	≤18.6 >18.6	1.21 (1.02,1.44) 0.89 (0.77,1.03)	0.025 0.110

TABLE Q-5. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Acne Relative to SEA Tour (Pre/Post-SEA and Post-SEA vs. Pre-SEA and None)	11	0.062	≤18.6	1.21 (0.95,1.55)	0.116	0.001	≤18.6	1.27 (1.07,1.51)	0.005
			>18.6	0.91 (0.75,1.10)	0.318		>18.6	0.89 (0.77,1.03)	0.108
Acne Relative to SEA Tour (Post-SEA vs. None)	11	0.101	≤18.6	1.13 (0.88,1.47)	0.340	0.006	≤18.6	1.19 (0.99,1.42)	0.058
			>18.6	0.86 (0.70,1.06)	0.157		>18.6	0.85 (0.73,1.00)	0.045
Acne Relative to SEA Tour (Pre/Post-SEA vs. Pre-SEA)	11	0.184	≤18.6	4.81 (0.74,31.46)	0.101	0.072	≤18.6	3.56 (1.21,10.43)	0.021
			>18.6	1.30 (0.49,3.40)	0.598		>18.6	1.15 (0.56,2.37)	0.701
Location of Acne (Post-SEA)	11	0.021	≤18.6	0.71 (0.43,1.17)	0.177	0.083	≤18.6	0.76 (0.54,1.07)	0.113
			>18.6	1.42 (1.00,2.03)	0.051		>18.6	1.11 (0.85,1.44)	0.458
Location of Acne (Pre/Post-SEA and Post-SEA)	11	0.037	≤18.6	0.84 (0.57,1.24)	0.386	0.141	≤18.6	0.84 (0.63,1.11)	0.213
			>18.6	1.42 (1.03,1.94)	0.030		>18.6	1.10 (0.87,1.38)	0.433
Comedones	11	0.708	≤18.6	1.04 (0.79,1.39)	0.761	0.939	≤18.6	1.06 (0.86,1.29)	0.595
			>18.6	1.12 (0.89,1.41)	0.335		>18.6	1.04 (0.87,1.25)	0.632
Acneiform Lesions	11	0.507	≤18.6	1.06 (0.74,1.51)	0.752	0.110	≤18.6	1.39 (1.06,1.81)	0.016
			>18.6	0.90 (0.65,1.25)	0.527		>18.6	1.03 (0.81,1.32)	0.792
Acneiform Scars	11	0.100	≤18.6	1.54 (1.12,2.12)	0.009	0.030	≤18.6	1.46 (1.15,1.85)	0.002
			>18.6	1.07 (0.79,1.44)	0.666		>18.6	1.02 (0.81,1.28)	0.888

TABLE Q-5. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time**

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Depigmentation	11	0.381	≤18.6	1.05 (0.68,1.62)	0.813	0.087	≤18.6	1.30 (0.94,1.79)	0.110
			>18.6	0.81 (0.53,1.22)	0.308		>18.6	0.89 (0.66,1.19)	0.433
Inclusion Cysts	11	0.305	≤18.6	0.78 (0.50,1.21)	0.270	0.923	≤18.6	0.82 (0.61,1.10)	0.179
			>18.6	1.03 (0.75,1.42)	0.840		>18.6	0.84 (0.65,1.07)	0.147
Hyperpigmentation	11	0.961	≤18.6	1.14 (0.85,1.53)	0.390	0.305	≤18.6	1.35 (1.09,1.68)	0.007
			>18.6	1.15 (0.89,1.48)	0.286		>18.6	1.16 (0.95,1.41)	0.145
Other Abnormalities	11	0.928	≤18.6	0.88 (0.69,1.14)	0.338	0.821	≤18.6	0.87 (0.73,1.05)	0.141
			>18.6	0.87 (0.70,1.08)	0.199		>18.6	0.85 (0.72,1.00)	0.052
Dermatology Index	11	0.431	≤18.6	1.17 (0.92,1.48)	0.202	0.048	≤18.6	1.20 (1.02,1.42)	0.031
			>18.6	1.03 (0.85,1.25)	0.763		>18.6	0.96 (0.83,1.11)	0.590
Reported/Verified Essential Hypertension	12	0.288	≤18.6	1.20 (0.92,1.56)	0.171	0.530	≤18.6	1.14 (0.95,1.37)	0.153
			>18.6	1.00 (0.80,1.25)	0.979		>18.6	1.05 (0.89,1.25)	0.532
Reported Heart Disease (Excluding Essential Hypertension)	12	0.926	≤18.6	0.86 (0.65,1.14)	0.297	0.779	≤18.6	0.84 (0.69,1.01)	0.065
			>18.6	0.88 (0.70,1.10)	0.261		>18.6	0.81 (0.68,0.96)	0.015
Verified Heart Disease (Excluding Essential Hypertension)	12	0.944	≤18.6	0.86 (0.65,1.14)	0.297	0.740	≤18.6	0.84 (0.69,1.01)	0.065
			>18.6	0.87 (0.69,1.10)	0.250		>18.6	0.80 (0.68,0.95)	0.013

TABLE Q-5. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*Ta	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Reported/Verified Myocardial Infarction	12	0.862	≤18.6	0.90 (0.48,1.70)	0.746	0.332	≤18.6	1.25 (0.80,1.96)	0.329
			>18.6	0.84 (0.51,1.39)	0.491		>18.6	0.94 (0.65,1.35)	0.731
Systolic Blood Pressure	12	0.675	≤18.6	1.00 (0.72,1.38)	0.997	0.647	≤18.6	1.08 (0.86,1.35)	0.528
			>18.6	0.91 (0.70,1.19)	0.505		>18.6	1.00 (0.82,1.22)	0.979
Heart Sounds	12	0.688	≤18.6	0.76 (0.34,1.73)	0.515	0.159	≤18.6	0.73 (0.43,1.24)	0.249
			>18.6	0.93 (0.56,1.53)	0.761		>18.6	1.16 (0.79,1.69)	0.456
Overall ECG	12	0.213	≤18.6	1.06 (0.74,1.50)	0.764	0.375	≤18.6	1.03 (0.81,1.31)	0.821
			>18.6	0.78 (0.58,1.06)	0.117		>18.6	0.89 (0.71,1.10)	0.281
ECG: RBBB	12	--	≤18.6	--	--	--	≤18.6	--	--
			>18.6	1.00 (0.31,3.20)	0.996		>18.6	1.29 (0.51,3.25)	0.595
ECG: LBBB	12	--	≤18.6	--	--	--	≤18.6	--	--
			>18.6	--	--		>18.6	--	--
ECG: Nonspecific T-Waves	12	0.587	≤18.6	0.92 (0.58,1.45)	0.721	0.848	≤18.6	1.02 (0.75,1.39)	0.893
			>18.6	0.79 (0.57,1.09)	0.153		>18.6	0.98 (0.78,1.25)	0.889
ECG: Bradycardia	12	0.363	≤18.6	1.03 (0.58,1.83)	0.930	0.067	≤18.6	1.02 (0.69,1.52)	0.905
			>18.6	0.56 (0.15,2.05)	0.379		>18.6	0.46 (0.20,1.08)	0.076
ECG: Arrhythmia	12	0.339	≤18.6	1.55 (0.85,2.83)	0.149	0.032	≤18.6	1.51 (0.96,2.37)	0.074
			>18.6	1.05 (0.61,1.81)	0.867		>18.6	0.78 (0.51,1.17)	0.230

TABLE Q-5. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time**

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
ECG: Other Diagnoses	12	0.129	≤18.6 >18.6	1.01 (0.73,1.41) 0.70 (0.49,1.00)	0.942 0.048	0.040	≤18.6 >18.6	1.03 (0.82,1.29) 0.72 (0.56,0.93)	0.814 0.011
Diastolic Blood Pressure	12	0.963	≤18.6 >18.6	0.94 (0.50,1.75) 0.95 (0.61,1.49)	0.835 0.832	0.547	≤18.6 >18.6	0.95 (0.62,1.47) 1.13 (0.80,1.58)	0.829 0.488
Funduscopy Examination	12	--	≤18.6 >18.6	1.58 (0.49,5.06) --	0.458 --	--	≤18.6 >18.6	1.13 (0.53,2.43) --	0.749 --
Carotid Bruits	12	--	≤18.6 >18.6	-- 0.48 (0.12,2.00)	-- 0.315	--	≤18.6 >18.6	-- 0.60 (0.25,1.41)	-- 0.240
Radial Pulses	12	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Femoral Pulses	12	0.562	≤18.6 >18.6	0.96 (0.32,2.93) 0.64 (0.29,1.42)	0.950 0.271	0.656	≤18.6 >18.6	1.05 (0.48,2.30) 0.84 (0.50,1.43)	0.906 0.527
Popliteal Pulses	12	0.762	≤18.6 >18.6	0.50 (0.17,1.49) 0.61 (0.29,1.25)	0.211 0.178	0.881	≤18.6 >18.6	0.91 (0.48,1.72) 0.86 (0.53,1.38)	0.776 0.525
Dorsalis Pedis Pulses	12	0.273	≤18.6 >18.6	1.27 (0.87,1.85) 0.97 (0.70,1.33)	0.208 0.832	0.497	≤18.6 >18.6	1.21 (0.93,1.58) 1.07 (0.85,1.36)	0.155 0.569
Posterior Tibial Pulses	12	0.756	≤18.6 >18.6	0.60 (0.24,1.50) 0.71 (0.39,1.30)	0.273 0.263	0.733	≤18.6 >18.6	1.15 (0.65,2.04) 1.01 (0.67,1.54)	0.636 0.946

TABLE Q-5. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Leg Pulses	12	0.369	≤18.6 >18.6	1.13 (0.79,1.61) 0.91 (0.68,1.22)	0.513 0.533	0.609	≤18.6 >18.6	1.16 (0.91,1.50) 1.07 (0.86,1.32)	0.236 0.550
Peripheral/All Pulses	12	0.321	≤18.6 >18.6	1.13 (0.79,1.61) 0.89 (0.67,1.19)	0.513 0.439	0.577	≤18.6 >18.6	1.16 (0.91,1.50) 1.06 (0.86,1.31)	0.236 0.596
Red Blood Cell Count	13	0.066	≤18.6 >18.6	0.29 (0.04,2.22) 1.32 (0.84,2.06)	0.232 0.229	0.012	≤18.6 >18.6	0.47 (0.19,1.19) 1.42 (0.98,2.06)	0.110 0.062
Hematocrit	13	0.330	≤18.6 >18.6	0.15 (0.00,17.41) 0.87 (0.48,1.58)	0.431 0.643	0.277	≤18.6 >18.6	0.46 (0.08,2.63) 1.09 (0.70,1.69)	0.383 0.715
Mean Corpuscular Volume	13	0.999	≤18.6 >18.6	0.99 (0.69,1.42) 0.99 (0.75,1.32)	0.960 0.965	0.808	≤18.6 >18.6	1.15 (0.89,1.49) 1.10 (0.89,1.37)	0.288 0.384
Mean Corpuscular Hemoglobin	13	0.127	≤18.6 >18.6	1.41 (0.92,2.15) 0.92 (0.66,1.29)	0.112 0.645	0.301	≤18.6 >18.6	1.24 (0.91,1.68) 1.00 (0.78,1.29)	0.176 0.992
Platelet Count	13	0.551	≤18.6 >18.6	0.90 (0.38,2.17) 1.22 (0.75,1.97)	0.820 0.428	0.930	≤18.6 >18.6	1.19 (0.65,2.19) 1.23 (0.84,1.80)	0.573 0.291
Prothrombin Time	13	0.300	≤18.6 >18.6	1.48 (0.71,3.10) 0.91 (0.52,1.57)	0.299 0.724	0.889	≤18.6 >18.6	1.01 (0.60,1.73) 0.97 (0.64,1.46)	0.957 0.873
Kidney Disease	14	0.375	≤18.6 >18.6	0.89 (0.60,1.33) 1.12 (0.82,1.53)	0.572 0.479	0.910	≤18.6 >18.6	1.01 (0.77,1.32) 1.03 (0.81,1.31)	0.961 0.823

TABLE Q-5. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Urinary Protein	14	0.174	≤18.6	0.81 (0.47,1.39)	0.440	0.625	≤18.6	1.09 (0.75,1.58)	0.640
			>18.6	1.32 (0.83,2.12)	0.245		>18.6	0.96 (0.67,1.37)	0.826
Urinary Occult Blood	14	0.547	≤18.6	1.23 (0.77,1.94)	0.385	0.482	≤18.6	1.07 (0.77,1.48)	0.700
			>18.6	1.04 (0.77,1.39)	0.819		>18.6	1.23 (0.97,1.55)	0.082
Urinary White Blood Cell Count	14	0.323	≤18.6	0.92 (0.60,1.39)	0.680	0.326	≤18.6	1.04 (0.78,1.40)	0.789
			>18.6	1.20 (0.85,1.69)	0.295		>18.6	1.27 (0.97,1.68)	0.087
Current Thyroid Function	15	0.437	≤18.6	0.73 (0.37,1.46)	0.373	0.933	≤18.6	0.89 (0.57,1.39)	0.611
			>18.6	1.03 (0.60,1.78)	0.909		>18.6	0.87 (0.58,1.30)	0.497
History of Thyroid Disease	15	0.347	≤18.6	0.79 (0.36,1.73)	0.553	0.882	≤18.6	0.97 (0.58,1.62)	0.898
			>18.6	1.19 (0.78,1.82)	0.414		>18.6	0.92 (0.67,1.27)	0.626
Thyroid Gland	15	0.887	≤18.6	0.94 (0.72,1.24)	0.679	0.754	≤18.6	1.01 (0.84,1.22)	0.916
			>18.6	0.97 (0.78,1.20)	0.766		>18.6	1.05 (0.89,1.24)	0.548
Testes	15	0.303	≤18.6	1.49 (0.82,2.68)	0.189	0.536	≤18.6	1.33 (0.86,2.07)	0.200
			>18.6	1.00 (0.62,1.61)	0.987		>18.6	1.11 (0.77,1.61)	0.571
T ₃ % Uptake	15	0.777	≤18.6	0.86 (0.46,1.63)	0.652	0.477	≤18.6	0.91 (0.60,1.39)	0.669
			>18.6	0.75 (0.35,1.60)	0.455		>18.6	0.72 (0.43,1.20)	0.205
TSH	15	0.520	≤18.6	1.48 (0.65,3.36)	0.354	0.423	≤18.6	1.23 (0.67,2.24)	0.507
			>18.6	1.06 (0.60,1.88)	0.845		>18.6	0.90 (0.58,1.41)	0.643

TABLE Q-5. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Testosterone	15	0.983	≤18.6 >18.6	0.75 (0.26,2.18) 0.74 (0.40,1.38)	0.600 0.347	0.444	≤18.6 >18.6	1.22 (0.59,2.55) 0.87 (0.56,1.34)	0.592 0.528
Fasting Glucose	15	0.256	≤18.6 >18.6	1.04 (0.74,1.45) 1.32 (1.04,1.67)	0.821 0.023	0.531	≤18.6 >18.6	1.18 (0.93,1.50) 1.30 (1.08,1.56)	0.183 0.006
Composite Diabetes Indicator	15	0.527	≤18.6 >18.6	1.13 (0.80,1.61) 1.30 (1.00,1.69)	0.488 0.047	0.638	≤18.6 >18.6	1.34 (1.03,1.74) 1.24 (1.01,1.52)	0.027 0.040
Composite Skin Test Diagnosis	16	0.474	≤18.6 >18.6	0.78 (0.44,1.39) 1.02 (0.64,1.61)	0.393 0.946	0.418	≤18.6 >18.6	0.77 (0.52,1.15) 0.96 (0.68,1.35)	0.202 0.814
Asthma	17	0.358	≤18.6 >18.6	1.17 (0.66,2.06) 0.76 (0.36,1.62)	0.590 0.474	0.176	≤18.6 >18.6	1.12 (0.75,1.67) 0.71 (0.42,1.23)	0.571 0.223
Bronchitis	17	0.281	≤18.6 >18.6	0.71 (0.47,1.08) 0.93 (0.70,1.24)	0.106 0.623	0.161	≤18.6 >18.6	0.76 (0.58,0.99) 0.97 (0.78,1.19)	0.044 0.750
Pleurisy	17	0.944	≤18.6 >18.6	1.22 (0.56,2.66) 1.18 (0.76,1.84)	0.612 0.455	0.452	≤18.6 >18.6	0.95 (0.55,1.65) 1.22 (0.86,1.74)	0.864 0.273
Pneumonia	17	0.931	≤18.6 >18.6	0.98 (0.64,1.48) 0.95 (0.63,1.43)	0.907 0.809	0.828	≤18.6 >18.6	0.94 (0.70,1.25) 0.98 (0.72,1.34)	0.653 0.903
Tuberculosis	17	0.614	≤18.6 >18.6	0.65 (0.27,1.56) 0.86 (0.45,1.64)	0.339 0.650	0.834	≤18.6 >18.6	0.81 (0.47,1.39) 0.87 (0.54,1.40)	0.435 0.567

TABLE Q-5. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 2: Ranch Hands - Log₂ (Current Dioxin) and Time

Clinical Parameter	Reference Chapter	Minimal Assumption				Maximal Assumption			
		C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value	C*T ^a	Time (Yrs.)	Est. Relative Risk (95% C.I.)	p-Value
Thorax and Lung Abnormalities	17	0.496	≤18.6 >18.6	1.18 (0.74,1.89) 0.97 (0.71,1.34)	0.477 0.862	0.829	≤18.6 >18.6	1.11 (0.79,1.56) 1.16 (0.91,1.49)	0.552 0.231
Hyperresonance	17	0.905	≤18.6 >18.6	1.02 (0.58,1.79) 1.06 (0.67,1.69)	0.959 0.802	0.567	≤18.6 >18.6	1.07 (0.71,1.60) 1.25 (0.87,1.81)	0.751 0.228
Dullness	17	--	≤18.6 >18.6	-- --	-- --	--	≤18.6 >18.6	-- --	-- --
Wheezes	17	0.500	≤18.6 >18.6	1.57 (0.75,3.27) 1.17 (0.75,1.82)	0.229 0.502	0.862	≤18.6 >18.6	1.28 (0.74,2.23) 1.21 (0.85,1.73)	0.375 0.293
Rales	17	0.765	≤18.6 >18.6	1.22 (0.45,3.31) 1.01 (0.51,2.03)	0.692 0.967	0.496	≤18.6 >18.6	0.94 (0.45,1.96) 1.29 (0.74,2.23)	0.864 0.373
X-Ray Interpretation	17	0.536	≤18.6 >18.6	1.19 (0.68,2.09) 0.95 (0.59,1.51)	0.539 0.816	0.534	≤18.6 >18.6	1.13 (0.76,1.68) 0.96 (0.68,1.36)	0.543 0.803

^aP-value for test of significance for homogeneity of relative risks (current dioxin continuous, time categorized); C*T=current dioxin-by-time interaction.

--: Estimated relative risk/confidence interval/p-value not given due to the sparse number of abnormalities.

Note: Estimated relative risk for a twofold increase in dioxin.

TABLE Q-6.

**Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category**

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Self-Perception of Health	6	Pct. Fair/Poor (n): Est. RR (95% C.I.): p-Value:	5.0 (785)	3.8 (345) 0.75 (0.39,1.42) 0.377	7.1 (196) 1.47 (0.78,2.77) 0.231	7.0 (187) 1.43 (0.75,2.73) 0.281	0.253
Appearance of Illness or Distress by Physician	6	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.5 (785)	0.6 (345) 1.14 (0.21,6.25) 0.881	0.0 (196) -- --	1.1 (187) 2.11 (0.38,11.61) 0.390	0.407
Relative Age	6	Pct. Older (n): Est. RR (95% C.I.): p-Value:	5.0 (786)	5.2 (345) 1.05 (0.59,1.87) 0.856	3.6 (196) 0.71 (0.31,1.61) 0.412	6.4 (187) 1.31 (0.67,2.56) 0.424	0.638
Percent Body Fat	6	Pct. Obese (n): Est. RR (95% C.I.): p-Value:	23.7 (786)	11.9 (345) 0.44 (0.30,0.63) <0.001	23.5 (196) 0.99 (0.68,1.43) 0.954	30.0 (187) 1.38 (0.97,1.96) 0.075	<0.001
Sedimentation Rate	6	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	3.3 (786)	3.5 (345) 1.05 (0.53,2.11) 0.884	7.1 (196) 2.25 (1.15,4.39) 0.018	9.1 (187) 2.92 (1.55,5.51) 0.001	0.003
All Skin Neoplasms (Verified)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	13.0 (739)	17.1 (333) 1.38 (0.97,1.98) 0.075	16.3 (184) 1.30 (0.84,2.04) 0.242	11.7 (179) 0.89 (0.54,1.47) 0.651	0.195
All Skin Neoplasms (Verified and Suspected)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	13.3 (739)	17.1 (333) 1.35 (0.95,1.93) 0.097	16.3 (184) 1.27 (0.82,1.99) 0.285	11.7 (179) 0.87 (0.53,1.44) 0.585	0.230

TABLE Q-6. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category**

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Malignant Skin Neoplasms (Verified)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	7.4 (739)	9.9 (333) 1.37 (0.87,2.15) 0.174	9.2 (184) 1.27 (0.72,2.24) 0.417	5.0 (179) 0.66 (0.32,1.36) 0.258	0.197
Malignant Skin Neoplasms (Verified and Suspected)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	7.6 (739)	9.9 (333) 1.34 (0.85,2.11) 0.201	9.2 (184) 1.24 (0.70,2.19) 0.456	5.0 (179) 0.65 (0.31,1.33) 0.238	0.209
Benign Skin Neoplasms (Non-Blacks Only)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	6.0 (739)	7.2 (333) 1.23 (0.73,2.05) 0.437	7.1 (184) 1.20 (0.63,2.28) 0.575	7.3 (179) 1.24 (0.65,2.35) 0.516	0.828
Benign Skin Neoplasms (Blacks Included)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	5.9 (786)	7.5 (345) 1.31 (0.80,2.16) 0.285	7.1 (196) 1.24 (0.67,2.30) 0.500	7.0 (187) 1.20 (0.64,2.27) 0.572	0.722
Skin Neoplasms of Uncertain Behavior or Unspecified Nature (Verified)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.0 (739)	0.3 (333) -- 0.622	0.0 (184) -- --	0.0 (179) -- --	--

TABLE Q-6. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Skin Neoplasms of Uncertain Behavior or Unspecified Nature (Verified and Suspected)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.1 (739)	0.3 (333) 2.22 (0.14,35.65) 0.999	0.0 (184) -- 0.999	0.0 (179) -- 0.999	--
<u>Basal Cell Carcinoma</u>	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	6.6 (739)	9.0 (333) 1.39 (0.87,2.24) 0.171	8.7 (184) 1.34 (0.74,2.42) 0.329	3.9 (179) 0.57 (0.26,1.29) 0.177	0.117
Ear, Face, Head, and Neck	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	5.1 (739)	6.6 (333) 1.30 (0.76,2.24) 0.336	5.4 (184) 1.06 (0.52,2.17) 0.873	1.1 (179) 0.21 (0.05,0.87) 0.032	0.019
Trunk	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	1.4 (739)	2.1 (333) 1.57 (0.59,4.15) 0.368	1.6 (184) 1.21 (0.33,4.44) 0.776	2.2 (179) 1.67 (0.52,5.38) 0.393	0.765
Upper Extremities	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.5 (739)	0.9 (333) 1.67 (0.37,7.51) 0.754	0.5 (184) 1.00 (0.11,9.04) 0.999	0.0 (179) -- 0.838	0.633
Lower Extremities	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.0 (739)	0.0 (333) -- --	0.0 (184) -- --	0.0 (179) -- --	--

TABLE Q-6. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category**

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Other Sites	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.1 (739)	0.0 (333) -- 0.999	1.6 (184) 12.23 (1.27,118.3) 0.053	0.6 (179) 4.15 (0.26,66.61) 0.704	0.011
<u>Sun Exposure- Related Malignant Skin Neoplasms</u>	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	7.0 (739)	9.9 (333) 1.45 (0.92,2.30) 0.110	9.2 (184) 1.34 (0.76,2.39) 0.313	4.5 (179) 0.62 (0.29,1.33) 0.215	0.101
Ear, Face, Head, and Neck	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	5.3 (739)	7.5 (333) 1.46 (0.87,2.45) 0.156	6.0 (184) 1.14 (0.57,2.28) 0.707	1.7 (179) 0.31 (0.09,1.00) 0.050	0.026
Trunk	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	1.8 (739)	2.1 (333) 1.20 (0.47,3.04) 0.701	1.6 (184) 0.93 (0.26,3.29) 0.904	2.2 (179) 1.28 (0.41,3.97) 0.673	0.955
Upper Extremities	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.5 (739)	1.2 (333) 2.23 (0.56,8.99) 0.426	0.5 (184) 1.00 (0.11,9.04) 0.999	0.6 (179) 1.03 (0.12,9.29) 0.999	0.661
Lower Extremities	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.0 (739)	0.0 (333) -- --	0.0 (184) -- --	0.0 (179) -- --	--
Other Sites	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.1 (739)	0.0 (333) -- 0.999	1.6 (184) 12.23 (1.27,118.3) 0.053	0.6 (179) 4.15 (0.26,66.61) 0.704	0.011

TABLE Q-6. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Melanoma	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.4 (739)	0.3 (333) 0.74 (0.08,7.13) 0.999	0.0 (184) -- 0.999	0.0 (179) -- 0.999	--
Ear, Face, Head, and Neck	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.0 (739)	0.3 (333) -- 0.622	0.0 (184) -- --	0.0 (179) -- --	--
Trunk	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.4 (739)	0.0 (333) -- 0.654	0.0 (184) -- 0.999	0.0 (179) -- 0.999	--
Upper Extremities	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.0 (739)	0.0 (333) -- --	0.0 (184) -- --	0.0 (179) -- --	--
Lower Extremities	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.0 (739)	0.0 (333) -- --	0.0 (184) -- --	0.0 (179) -- --	--
Other Sites	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.0 (739)	0.0 (333) -- --	0.0 (184) -- --	0.0 (179) -- --	--
Squamous Cell Carcinoma	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.1 (739)	0.6 (333) 4.46 (0.40,49.35) 0.458	0.5 (184) 4.03 (0.25,64.78) 0.718	0.6 (179) 4.15 (0.26,66.61) 0.704	0.571

TABLE Q-6. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category**

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Basal Cell Carcinoma by Occupation							
Officer-Ear, Face, Head, and Neck vs. None	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	6.2 (275)	7.4 (202) 1.22 (0.59,2.50) 0.720	5.4 (37) 0.87 (0.19,3.93) 0.999	0.0 (2) -- 0.999	0.912
Officer-Other Sites vs. None	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	1.5 (262)	4.1 (195) 2.76 (0.82,9.33) 0.161	2.8 (36) 1.84 (0.20,16.96) 0.954	0.0 (2) -- 0.999	0.398
Enlisted Flyer- Ear, Face, Head, and Neck vs. None	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	7.0 (115)	7.7 (39) 1.11 (0.28,4.46) 0.999	2.0 (50) 0.27 (0.03,2.27) 0.366	3.4 (29) 0.48 (0.06,4.03) 0.850	0.530
Enlisted Flyer- Other Sites vs. None	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.9 (108)	0.0 (36) -- 0.999	2.0 (50) 2.18 (0.13,36.20) 0.999	12.5 (32) 15.29 (1.62,144.2) 0.020	0.003
Enlisted Groundcrew- Ear, Face, Head, and Neck vs. None	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	3.8 (338)	4.8 (84) 1.25 (0.40,3.94) 0.703	7.7 (91) 2.08 (0.81,5.39) 0.131	0.7 (143) 0.18 (0.02,1.36) 0.095	0.052
Enlisted Groundcrew- Other Sites vs. None	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	1.8 (331)	0.0 (80) -- 0.540	4.5 (88) 2.58 (0.71,9.37) 0.274	0.7 (143) 0.38 (0.05,3.21) 0.648	0.091

TABLE Q-6. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
<u>Sun Exposure-Related</u>							
<u>Malignant Skin Neoplasms</u>							
<u>by Occupation</u>							
Officer-Ear, Face, Head, and Neck vs. None	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	6.6 (274)	8.9 (202) 1.39 (0.70,2.75) 0.434	5.4 (37) 0.81 (0.18,3.67) 0.999	0.0 (2) -- 0.999	0.723
Officer-Other Sites vs. None	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	1.9 (261)	4.2 (192) 2.23 (0.72,6.93) 0.258	2.8 (36) 1.46 (0.17,12.89) 0.999	0.0 (2) -- 0.999	0.555
Enlisted Flyer- Ear, Face, Head, and Neck vs. None	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	7.0 (114)	7.7 (39) 1.10 (0.28,4.42) 0.999	4.0 (50) 0.55 (0.11,2.72) 0.728	3.4 (29) 0.47 (0.06,3.99) 0.842	0.779
Enlisted Flyer- Other Sites vs. None	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	1.9 (108)	0.0 (36) -- 0.999	2.0 (49) 1.10 (0.10,12.47) 0.999	12.5 (32) 7.57 (1.31,43.46) 0.049	0.010
Enlisted Groundcrew- Ear, Face, Head, and Neck vs. None	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	3.8 (338)	4.8 (84) 1.25 (0.40,3.94) 0.896	7.7 (91) 2.08 (0.81,5.39) 0.214	1.4 (143) 0.36 (0.08,1.60) 0.256	0.114
Enlisted Groundcrew- Other Sites vs. None	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	1.8 (331)	0.0 (80) -- 0.540	4.5 (88) 2.58 (0.71,9.37) 0.274	0.7 (142) 0.38 (0.05,3.23) 0.654	0.091

TABLE Q-6. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Basal Cell Carcinoma (One vs. None)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	5.7 (732)	6.5 (324) 1.14 (0.66,1.96) 0.732	6.1 (179) 1.08 (0.54,2.13) 0.950	3.4 (178) 0.57 (0.24,1.37) 0.276	0.524
Basal Cell Carcinoma (Multiple vs. None)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	1.0 (697)	2.9 (312) 2.93 (1.08,7.93) 0.060	2.9 (173) 2.93 (0.92,9.36) 0.139	0.6 (173) 0.57 (0.07,4.69) 0.999	0.053
All Systemic Neoplasms (Verified)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	8.3 (786)	5.2 (345) 0.61 (0.36,1.05) 0.072	9.7 (196) 1.19 (0.70,2.04) 0.524	10.7 (187) 1.33 (0.78,2.25) 0.294	0.087
All Systemic Neoplasms (Verified and Suspected)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	8.4 (786)	5.2 (345) 0.60 (0.35,1.03) 0.063	9.7 (196) 1.17 (0.69,2.00) 0.564	10.7 (187) 1.31 (0.77,2.22) 0.321	0.084
Malignant Systemic Neoplasms	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	1.7 (786)	1.2 (345) 0.70 (0.23,2.16) 0.740	5.1 (196) 3.20 (1.38,7.40) 0.016	0.0 (187) -- 0.122	0.001
Benign Systemic Neoplasms	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	6.0 (786)	4.1 (345) 0.67 (0.36,1.23) 0.190	4.6 (196) 0.76 (0.36,1.57) 0.455	10.2 (187) 1.78 (1.02,3.11) 0.043	0.044

TABLE Q-6. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Systemic Neoplasms of Uncertain Behavior or Unspecified Nature (Verified)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.8 (786)	0.0 (345) -- 0.224	0.0 (196) -- 0.524	0.5 (187) 0.70 (0.08,5.84) 0.999	0.253
Systemic Neoplasms of Uncertain Behavior or Unspecified Nature (Verified and Suspected)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.9 (786)	0.0 (345) -- 0.155	0.0 (196) -- 0.418	0.5 (187) 0.60 (0.07,4.89) 0.999	0.184
<u>Systemic Neoplasms:</u> <u>Location/Site</u>							
Ear, Face, Head, and Neck	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.1 (786)	0.0 (345) -- 0.999	0.0 (196) -- 0.999	0.0 (187) -- 0.999	--
Oral Cavity, Pharynx, and Larynx	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.1 (786)	0.0 (345) -- 0.999	0.0 (196) -- 0.999	0.0 (187) -- 0.999	--
Brain	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.0 (786)	0.0 (345) -- --	0.0 (196) -- --	0.0 (187) -- --	--

TABLE Q-6. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Thymus and Mediastinum	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.0 (786)	0.3 (345) -- 0.610	0.0 (196) -- --	0.0 (187) -- --	--
Thyroid Gland	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.0 (786)	0.0 (345) -- --	0.0 (196) -- --	0.0 (187) -- --	--
○ 8 Bronchus and Lung	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.0 (786)	0.6 (345) -- 0.186	0.5 (196) -- 0.400	0.0 (187) -- --	--
Colon and Rectum	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.3 (786)	0.0 (345) -- 0.999	0.0 (196) -- 0.999	0.0 (187) -- 0.999	--
Kidney and Bladder	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.3 (786)	0.3 (345) 1.14 (0.10,12.61) 0.999	2.0 (196) 8.17 (1.49,44.91) 0.033	0.0 (187) -- 0.999	0.006
Prostate	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.5 (786)	0.0 (345) -- 0.466	1.0 (196) 2.02 (0.37,11.08) 0.688	0.0 (187) -- 0.850	--
Testicles	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.0 (786)	0.0 (345) -- --	1.0 (196) -- 0.079	0.0 (187) -- --	--

TABLE Q-6. (Continued)
Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Ill-Defined Sites	7	Pct. Yes (n):	0.0 (786)	0.0 (345)	0.0 (196)	0.0 (187)	--
	8	Est. RR (95% C.I.): p-Value:		-- --	-- --	-- --	
Carcinoma in Situ of Penis	7	Pct. Yes (n):	0.1 (786)	0.0 (345)	0.0 (196)	0.0 (187)	--
	8	Est. RR (95% C.I.): p-Value:		-- 0.999	-- 0.999	-- 0.999	
Carcinoma in Situ of Other and Unspecified Sites	7	Pct. Yes (n):	0.0 (786)	0.0 (345)	0.0 (196)	0.0 (187)	--
	8	Est. RR (95% C.I.): p-Value:		-- --	-- --	-- --	
Hodgkin's Disease	7	Pct. Yes (n):	0.1 (786)	0.0 (345)	0.0 (196)	0.0 (187)	--
	8	Est. RR (95% C.I.): p-Value:		-- 0.999	-- 0.999	-- 0.999	
Leukemia	7	Pct. Yes (n):	0.0 (786)	0.0 (345)	0.5 (196)	0.0 (187)	--
	8	Est. RR (95% C.I.): p-Value:		-- --	-- 0.400	-- --	
Other Malignant Neoplasms of Lymphoid and Histiocytic Tissue	7	Pct. Yes (n):	0.1 (786)	0.3 (345)	0.5 (196)	0.0 (187)	0.641
	8	Est. RR (95% C.I.): p-Value:		2.28 (0.14,36.59) 0.999	4.03 (0.25,64.65) 0.720	-- 0.999	

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TABLE Q-6. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
All Skin and Systemic Neoplasms (Verified)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	19.6 (786)	20.6 (345) 1.06 (0.78,1.46) 0.702	23.5 (196) 1.26 (0.87,1.83) 0.230	21.4 (187) 1.12 (0.76,1.65) 0.580	0.679
All Skin and Systemic Neoplasms (Verified and Suspected)	7	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	19.8 (786)	20.6 (345) 1.05 (0.76,1.43) 0.777	23.5 (196) 1.24 (0.85,1.80) 0.263	21.4 (187) 1.10 (0.74,1.63) 0.636	0.730
Inflammatory Diseases	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	0.1 (779)	0.3 (343) 2.27 (0.14,36.48) 0.999	0.0 (196) -- 0.999	0.5 (187) 4.18 (0.26,67.18) 0.700	0.616
Hereditary and Degenerative Diseases	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	4.0 (784)	5.6 (342) 1.43 (0.80,2.57) 0.232	3.6 (196) 0.90 (0.39,2.07) 0.804	3.2 (187) 0.81 (0.33,1.96) 0.633	0.524
Peripheral Disorders	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	14.7 (781)	12.3 (341) 0.81 (0.56,1.19) 0.285	12.8 (196) 0.85 (0.53,1.35) 0.482	16.0 (187) 1.11 (0.71,1.71) 0.650	0.564
Disorders of the Eye	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	15.8 (783)	16.7 (342) 1.06 (0.75,1.50) 0.727	16.9 (195) 1.08 (0.71,1.65) 0.712	17.6 (187) 1.14 (0.75,1.74) 0.546	0.930
Tympanic Membrane Disorder	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	4.1 (779)	3.5 (342) 0.85 (0.43,1.67) 0.635	6.7 (193) 1.69 (0.87,3.28) 0.124	4.9 (185) 1.19 (0.56,2.55) 0.647	0.375
Otitis	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	12.4 (783)	14.0 (343) 1.15 (0.79,1.67) 0.459	12.8 (196) 1.03 (0.65,1.66) 0.889	8.6 (187) 0.66 (0.38,1.15) 0.145	0.308

TABLE Q-6. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Hearing Loss	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	76.0 (776)	75.1 (341) 0.95 (0.71,1.28) 0.731	74.9 (195) 0.94 (0.65,1.35) 0.736	66.7 (186) 0.63 (0.45,0.89) 0.009	0.082
Other Neurological Disorders	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	21.6 (781)	17.0 (342) 0.74 (0.53,1.03) 0.073	27.2 (195) 1.35 (0.94,1.93) 0.100	26.7 (187) 1.32 (0.92,1.91) 0.135	0.014
Smell	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	0.8 (784)	0.3 (343) 0.38 (0.05,3.16) 0.640	1.5 (196) 2.02 (0.50,8.13) 0.522	0.0 (187) -- 0.552	0.227
Visual Fields	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	0.8 (782)	0.3 (343) 0.38 (0.05,3.15) 0.636	0.0 (196) -- 0.520	0.0 (187) -- 0.550	0.313
Light Reaction	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	1.0 (782)	0.9 (343) 0.85 (0.23,3.24) 0.999	0.0 (196) -- 0.332	1.1 (187) 1.05 (0.22,4.97) 0.999	0.565
Ocular Movement	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	0.5 (783)	0.3 (343) 0.57 (0.06,5.11) 0.999	1.5 (196) 3.03 (0.67,13.63) 0.296	0.0 (187) -- 0.848	0.165
Facial Sensation	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	0.6 (783)	0.0 (343) -- 0.334	0.5 (196) 0.80 (0.09,6.87) 0.999	0.5 (187) 0.84 (0.10,7.20) 0.999	0.543
Smile	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	1.2 (784)	0.6 (343) 0.51 (0.11,2.35) 0.384	0.5 (196) 0.44 (0.06,3.51) 0.439	1.1 (187) 0.93 (0.20,4.34) 0.927	0.711

TABLE Q-6. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category**

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Palpebral Fissure	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	1.3 (784)	1.2 (343) 0.91 (0.28,2.93) 0.879	2.0 (196) 1.61 (0.50,5.20) 0.424	1.6 (187) 1.26 (0.34,4.63) 0.726	0.850
Balance	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	0.0 (783)	0.0 (343) -- --	0.5 (196) -- 0.400	0.5 (187) -- 0.386	0.117
Speech	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	0.1 (783)	0.0 (343) -- 0.999	0.5 (196) 4.01 (0.25,64.40) 0.720	0.0 (187) -- 0.999	0.421
Neck Range of Motion	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	11.7 (784)	12.2 (343) 1.05 (0.71,1.55) 0.808	12.2 (196) 1.05 (0.65,1.69) 0.843	9.1 (187) 0.75 (0.44,1.30) 0.305	0.692
Cranial Nerve Index	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	16.0 (773)	14.7 (341) 0.90 (0.63,1.28) 0.559	17.5 (194) 1.11 (0.73,1.69) 0.617	11.5 (183) 0.68 (0.41,1.11) 0.123	0.338
Cranial Nerve Index Without Range of Motion	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	5.1 (773)	2.9 (341) 0.57 (0.28,1.15) 0.117	5.7 (194) 1.13 (0.57,2.25) 0.725	3.8 (183) 0.75 (0.33,1.70) 0.489	0.320
Pin Prick	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	5.8 (771)	5.3 (339) 0.90 (0.52,1.59) 0.727	5.2 (194) 0.88 (0.43,1.77) 0.714	6.6 (183) 1.13 (0.59,2.19) 0.712	0.925
Light Touch	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	4.3 (771)	4.1 (339) 0.96 (0.51,1.82) 0.909	4.1 (194) 0.96 (0.44,2.12) 0.923	3.8 (183) 0.89 (0.39,2.04) 0.783	0.994

TABLE Q-6. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Muscle Status	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	2.2 (783)	1.8 (342) 0.80 (0.31,2.06) 0.650	2.0 (196) 0.94 (0.31,2.82) 0.910	2.1 (187) 0.98 (0.33,2.96) 0.978	0.974
Vibration	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	1.4 (771)	0.9 (339) 0.62 (0.17,2.22) 0.460	1.6 (194) 1.09 (0.30,3.93) 0.901	1.6 (183) 1.15 (0.32,4.17) 0.830	0.844
Patellar Reflex	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	1.2 (783)	1.2 (343) 1.01 (0.31,3.32) 0.981	2.0 (196) 1.79 (0.55,5.88) 0.336	2.7 (187) 2.36 (0.78,7.13) 0.127	0.434
Achilles Reflex	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	5.6 (784)	3.8 (342) 0.66 (0.35,1.25) 0.205	7.7 (195) 1.40 (0.76,2.57) 0.277	5.4 (187) 0.95 (0.47,1.92) 0.887	0.290
Biceps Reflex	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	1.3 (784)	0.6 (343) 0.45 (0.10,2.08) 0.482	0.0 (196) -- 0.212	0.0 (187) -- 0.232	0.135
Babinski Reflex	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	0.3 (784)	0.6 (343) 2.29 (0.32,16.35) 0.712	0.0 (196) -- 0.999	0.5 (187) 2.10 (0.19,23.31) 0.948	0.641
Tremor	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	2.7 (784)	2.6 (343) 0.98 (0.44,2.16) 0.958	2.0 (196) 0.76 (0.26,2.23) 0.614	3.7 (187) 1.41 (0.59,3.37) 0.436	0.788
Coordination	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	0.4 (783)	1.2 (342) 3.08 (0.68,13.82) 0.143	1.0 (196) 2.68 (0.44,16.15) 0.282	2.7 (187) 7.14 (1.69,30.16) 0.007	0.056

TABLE Q-6. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Romberg Sign	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	0.0 (783)	0.0 (343) -- --	0.5 (196) -- 0.400	0.0 (187) -- 0.386	0.117
Gait	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	2.2 (783)	2.6 (342) 1.22 (0.54,2.76) 0.637	3.1 (196) 1.42 (0.55,3.66) 0.464	3.7 (187) 1.75 (0.72,4.29) 0.219	0.657
CNS Index	8	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	4.9 (783)	5.3 (342) 1.09 (0.61,1.94) 0.771	4.6 (196) 0.94 (0.45,1.99) 0.878	8.6 (187) 1.83 (1.00,3.37) 0.050	0.276
Psychoses	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	2.7 (783)	1.2 (341) 0.43 (0.15,1.26) 0.125	2.1 (194) 0.76 (0.26,2.25) 0.625	1.6 (185) 0.60 (0.18,2.03) 0.409	0.377
Alcohol Dependence	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	6.0 (783)	7.3 (341) 1.24 (0.75,2.05) 0.404	5.2 (194) 0.85 (0.42,1.72) 0.652	8.1 (185) 1.38 (0.75,2.53) 0.295	0.563
Drug Dependence	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	0.3 (783)	0.0 (341) -- --	0.0 (194) -- --	0.0 (185) -- --	--
Anxiety	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	15.1 (781)	13.2 (340) 0.86 (0.59,1.24) 0.414	18.0 (194) 1.24 (0.82,1.87) 0.316	17.8 (185) 1.22 (0.80,1.86) 0.359	0.372
Other Neuroses	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	37.1 (777)	35.5 (335) 0.94 (0.72,1.22) 0.624	48.7 (193) 1.61 (1.17,2.21) 0.003	43.5 (184) 1.31 (0.94,1.81) 0.108	0.008

TABLE Q-6. (Continued)

Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Trouble Falling Asleep	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	12.1 (783)	9.4 (341) 0.75 (0.49,1.14) 0.182	7.2 (194) 0.56 (0.31,1.01) 0.054	9.2 (185) 0.73 (0.43,1.26) 0.262	0.144
Waking Up During the Night	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	14.1 (783)	12.3 (341) 0.86 (0.59,1.26) 0.435	12.4 (194) 0.86 (0.54,1.39) 0.543	13.0 (185) 0.91 (0.57,1.46) 0.703	0.842
Waking Up Too Early and Can't Go Back to Sleep	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	11.8 (783)	10.6 (341) 0.89 (0.59,1.33) 0.563	11.3 (194) 0.96 (0.59,1.57) 0.874	9.7 (185) 0.81 (0.48,1.38) 0.437	0.849
Waking Up Unrefreshed	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	9.3 (783)	6.2 (341) 0.64 (0.39,1.06) 0.080	9.3 (194) 0.99 (0.58,1.71) 0.985	13.0 (185) 1.45 (0.89,2.37) 0.139	0.071
Involuntarily Falling Asleep During the Day	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	3.5 (783)	3.5 (341) 1.02 (0.51,2.04) 0.952	2.6 (194) 0.74 (0.28,1.95) 0.543	4.9 (185) 1.43 (0.66,3.10) 0.362	0.693
Great or Disabling Fatigue During the Day	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	2.6 (783)	1.8 (341) 0.68 (0.27,1.72) 0.418	4.6 (194) 1.86 (0.83,4.14) 0.131	3.8 (185) 1.50 (0.62,3.60) 0.364	0.226
Frightening Dreams	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	3.1 (780)	2.4 (341) 0.76 (0.34,1.70) 0.500	2.6 (194) 0.83 (0.31,2.21) 0.714	8.2 (183) 2.81 (1.44,5.48) 0.002	0.010
Talking in Sleep	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	3.6 (782)	3.2 (341) 0.90 (0.44,1.82) 0.765	2.6 (194) 0.71 (0.27,1.87) 0.491	7.1 (184) 2.05 (1.04,4.03) 0.038	0.131

TABLE Q-6. (Continued)

**Summary of Unadjusted Results for Dichotomous Variables
Model 3: Ranch Hands and Comparisons by Current Dioxin Category**

Clinical Parameter	Reference Chapter	Statistic	Current Dioxin Category				Overall p-Value
			Background	Unknown	Low	High	
Sleepwalking	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	1.8 (783)	2.1 (341) 1.15 (0.46,2.88) 0.763	0.5 (194) 0.28 (0.04,2.18) 0.226	3.8 (185) 2.16 (0.86,5.43) 0.102	0.131
Abnormal Movement/ Activity During the Night	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	3.3 (783)	1.8 (341) 0.52 (0.21,1.28) 0.155	5.7 (194) 1.75 (0.85,3.61) 0.129	3.2 (185) 0.98 (0.40,2.41) 0.958	0.118
Sleep Problems Requiring Medication	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	1.5 (783)	2.1 (341) 1.35 (0.53,3.45) 0.535	2.6 (194) 1.70 (0.59,4.88) 0.325	0.5 (185) 0.35 (0.05,2.70) 0.314	0.368
Snore Loudly in All Sleeping Positions	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	6.9 (783)	4.7 (341) 0.66 (0.37,1.18) 0.162	9.8 (194) 1.47 (0.85,2.54) 0.172	8.7 (185) 1.28 (0.71,2.29) 0.409	0.114
Insomnia	9	Pct. Yes (n): Est. RR (95% C.I.): p-Value:	23.8 (783)	21.7 (341) 0.89 (0.66,1.21) 0.453	23.2 (194) 0.97 (0.67,1.41) 0.870	21.1 (185) 0.86 (0.58,1.27) 0.439	0.810
Overall Sleep Disorder Index	9	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	33.9 (780)	30.5 (341) 0.86 (0.65,1.13) 0.272	34.0 (194) 1.01 (0.72,1.40) 0.963	36.6 (183) 1.13 (0.81,1.58) 0.478	0.522
SCL-90-R							
Anxiety	9	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	5.4 (690)	4.4 (294) 0.82 (0.43,1.56) 0.539	7.6 (171) 1.45 (0.75,2.80) 0.265	10.8 (167) 2.13 (1.18,3.85) 0.012	0.043
Depression	9	Pct. Abn. (n): Est. RR (95% C.I.): p-Value:	7.3 (690)	6.5 (294) 0.88 (0.51,1.53) 0.660	7.6 (171) 1.05 (0.56,1.99) 0.873	13.2 (167) 1.94 (1.14,3.31) 0.015	0.081