

APPENDIX L
Dermatological Evaluation

APPENDIX L: Dermatological Evaluation

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TABLE L-1.
Unadjusted Exposure Index Analyses for Dermatological Variables by Occupation

Variable	Occupation	Statistic	Exposure Index						Contrast	Est. Relative Risk (95% C.I.)	p-Value
			Low		Medium		High				
			Number	Percent	Number	Percent	Number	Percent			
Comedones	Officer	n	127		130		123		Overall		0.198
		Abnormal	19	15.0	31	23.8	25	20.3	M vs. L	1.78 (0.95,3.35)	0.084
		Normal	108	85.0	99	76.2	98	79.7	H vs. L	1.45 (0.75,2.80)	0.320
	Enlisted	n	55		65		57		Overall		0.225
		Abnormal	23	41.8	19	29.2	16	28.1	M vs. L	0.58 (0.27,1.23)	0.180
		Normal	32	58.2	46	70.8	41	71.9	H vs. L	0.54 (0.25,1.19)	0.165
	Flyer	n	154		163		142		Overall		0.393
		Abnormal	40	26.0	36	22.1	41	28.9	M vs. L	0.81 (0.48,1.35)	0.433
		Normal	114	74.0	127	77.9	101	71.1	H vs. L	1.16 (0.69,1.93)	0.603
Acneiform Lesions	Officer	n	127		130		123		Overall		0.720
		Abnormal	19	15.0	21	16.2	23	18.7	M vs. L	1.10 (0.56,2.15)	0.864
		Normal	108	85.0	109	83.8	100	81.3	H vs. L	1.31 (0.67,2.54)	0.500
	Enlisted	n	55		65		57		Overall		0.994
		Abnormal	8	14.5	9	13.8	8	14.0	M vs. L	0.94 (0.34,2.64)	0.999
		Normal	47	85.5	56	86.2	49	86.0	H vs. L	0.96 (0.33,2.77)	0.999
	Groundcrew	n	154		163		142		Overall		0.806
		Abnormal	31	20.1	36	22.1	33	23.2	M vs. L	1.13 (0.66,1.93)	0.682
		Normal	123	79.9	127	77.9	109	76.8	H vs. L	1.20 (0.69,2.09)	0.573

TABLE L-1. (continued)

Unadjusted Exposure Index Analyses for Dermatological Variables by Occupation

Variable	Occupation	Statistic	Exposure Index						Contrast	Est. Relative Risk (95% C.I.)	p-Value			
			Low		Medium		High							
			Number	Percent	Number	Percent	Number	Percent						
Acneiform Scars	Officer	n	127		130		123		Overall		0.175			
		Abnormal	7	5.5	13	10.0	15	12.2	M vs. L	1.91 (0.73,4.94)	0.245			
		Normal	120	94.5	117	90.0	108	87.8	H vs. L	2.38 (0.94,6.06)	0.075			
	Enlisted Flyer	n	55		65		57		Overall		0.401			
		Abnormal	12	21.8	12	18.5	7	12.3	M vs. L	0.81 (0.33,1.99)	0.655			
		Normal	43	78.2	53	81.5	50	87.7	H vs. L	0.50 (0.18,1.39)	0.214			
	Enlisted Groundcrew	n	154		163		142		Overall		0.135			
		Abnormal	22	14.3	29	17.8	33	23.2	M vs. L	1.30 (0.71,2.38)	0.446			
		Normal	132	85.7	134	82.2	109	76.8	H vs. L	1.82 (1.00,3.30)	0.053			
Depigmentation	Officer	n	127		130		123		Overall		0.008			
		Abnormal	14	11.0	5	3.8	19	15.4	M vs. L	0.32 (0.11,0.93)	0.033			
		Normal	113	89.0	125	96.2	104	84.6	H vs. L	1.48 (0.70,3.09)	0.352			
	Enlisted Flyer	n	55		65		57		Overall		0.509			
		Abnormal	10	18.2	7	10.8	8	14.0	M vs. L	0.54 (0.19,1.54)	0.298			
		Normal	45	81.8	58	89.2	49	86.0	H vs. L	0.74 (0.27,2.03)	0.613			
	Enlisted Groundcrew	n	154		163		142		Overall		0.045			
		Abnormal	15	9.7	7	4.3	17	12.0	M vs. L	0.42 (0.17,1.05)	0.076			
		Normal	139	90.3	156	95.7	125	88.0	M vs. L	1.26 (0.60,2.63)	0.578			

TABLE L-1. (continued)

Unadjusted Exposure Index Analyses for Dermatological Variables by Occupation

Variable	Occupation	Statistic	Exposure Index						Contrast	Est. Relative Risk (95% C.I.)	p-Value			
			Low		Medium		High							
			Number	Percent	Number	Percent	Number	Percent						
Inclusion Cysts	Officer	n	127		130		123		Overall		0.221			
		Abnormal	11	8.7	20	15.4	13	10.6	M vs. L	1.92 (0.88,4.19)	0.125			
		Normal	116	91.3	110	84.6	110	89.4	H vs. L	1.25 (0.54,2.90)	0.671			
	Enlisted Flyer	n	55		65		57		Overall		0.857			
		Abnormal	6	10.9	9	13.8	8	14.0	M vs. L	1.31 (0.44,3.95)	0.783			
		Normal	49	89.1	56	86.2	49	86.0	H vs. L	1.33 (0.43,4.13)	0.777			
	Enlisted Groundcrew	n	154		163		142		Overall		0.836			
		Abnormal	16	10.4	15	9.2	16	11.3	M vs. L	0.87 (0.42,1.84)	0.850			
		Normal	138	89.6	148	90.8	126	88.7	H vs. L	1.10 (0.53,2.28)	0.853			
Hyperpigmentation	Officer	n	127		130		123		Overall		0.922			
		Abnormal	23	18.1	23	17.7	20	16.3	M vs. L	0.97 (0.51,1.84)	0.999			
		Normal	104	81.9	107	82.3	103	83.7	H vs. L	0.88 (0.46,1.70)	0.739			
	Enlisted Flyer	n	55		65		57		Overall		0.579			
		Abnormal	13	23.6	13	20.0	16	28.1	M vs. L	0.81 (0.34,1.93)	0.662			
		Normal	42	76.4	52	80.0	41	71.9	H vs. L	1.26 (0.54,2.95)	0.669			
	Enlisted Groundcrew	n	154		163		142		Overall		0.452			
		Abnormal	41	26.6	47	28.8	32	22.5	M vs. L	1.12 (0.68,1.83)	0.707			
		Normal	113	73.4	116	71.2	110	77.5	H vs. L	0.80 (0.47,1.36)	0.422			

TABLE L-1. (continued)
Unadjusted Exposure Index Analyses for Dermatological Variables by Occupation

Variable	Occupation	Statistic	Exposure Index						Contrast	Est. Relative Risk (95% C.I.)	p-Value			
			Low		Medium		High							
			Number	Percent	Number	Percent	Number	Percent						
Other Abnormalities	Officer	n	127		130		123		Overall		0.122			
		Abnormal	73	57.5	87	67.0	85	69.1	M vs. L	1.50 (0.90,2.49)	0.125			
		Normal	54	42.5	43	33.0	38	30.9	H vs. L	1.66 (0.98,2.78)	0.067			
	Enlisted Flyer	n	55		65		57		Overall		0.071			
		Abnormal	43	78.2	43	66.2	33	57.9	M vs. L	0.55 (0.24,1.24)	0.160			
		Normal	12	21.8	22	33.8	24	42.1	H vs. L	0.38 (0.17,0.88)	0.027			
	Enlisted Groundcrew	n	154		163		142		Overall		0.237			
		Abnormal	87	56.5	78	47.9	79	55.6	M vs. L	0.71 (0.45,1.10)	0.144			
		Normal	67	43.5	85	52.1	63	44.4	H vs. L	0.97 (0.61,1.53)	0.907			
Dermatology Index	Officer	n	127		130		123		Overall		0.300			
		>0 (Abnormal)	46	36.2	56	43.1	56	45.5	M vs. L	1.33 (0.81,2.20)	0.308			
		0 (Normal)	81	63.8	74	56.9	67	54.5	H vs. L	1.47 (0.89,2.44)	0.157			
	Enlisted Flyer	n	55		65		57		Overall		0.579			
		>0 (Abnormal)	33	60.0	34	52.3	29	50.9	M vs. L	0.73 (0.35,1.51)	0.462			
		0 (Normal)	22	40.0	31	47.7	28	49.1	H vs. L	0.69 (0.33,1.46)	0.349			
	Enlisted Groundcrew	n	154		163		142		Overall		0.348			
		>0 (Abnormal)	74	48.1	77	47.2	78	54.9	M vs. L	0.97 (0.62,1.50)	0.911			
		0 (Normal)	80	51.9	86	52.8	64	45.1	H vs. L	1.32 (0.83,2.08)	0.247			

TABLE L-2.
**Interaction Summaries of Adjusted Exposure
 Index Analyses of Dermatological Variables**

Variable	Interaction (Occupation)	Stratification	Statistic	Exposure Index						Est. Relative Risk (95% C.I.)	p-Value		
				Low		Medium		High					
				Number	Percent	Number	Percent	Number	Percent				
Acneiform Scars^a	Exposure Index-by-Race	Nonblack, No pre-SEA Acne	n	99		77		76		Overall	0.006*		
			Abnormal	0	0.0	6	7.8	8	10.5	M vs. L	18.09 (1.00,326.31)**		
			Normal	99	100.0	71	92.2	68	89.5	H vs. L	24.69 (1.40,434.96)**		
		Nonblack, pre-SEA Acne	n	25		49		44		Overall	0.833		
			Abnormal	5	20.0	7	14.3	6	13.6	M vs. L	0.73 (0.20,2.68)		
	Exposure Index-by-Presence of pre-SEA Acne (Officer)		Normal	20	80.0	42	85.7	38	86.4	H vs. L	0.67 (0.17,2.56)		
	Black, No pre-SEA Acne	n	1		2		1		Overall	0.135*			
		Abnormal	1	100.0	0	0.0	0	0.0	M vs. L	0.07 (0.001,5.49)**			
		Normal	0	0.0	2	100.0	1	100.0	H vs. L	0.11 (0.001,10.27)**			
	Black, pre-SEA Acne	n	1		1		1		Overall	0.135*			
		Abnormal	1	100.0	0	0.0	1	100.0	M vs. L	0.11 (0.001,10.27)**			
		Normal	0	0.0	1	100.0	0	0.0	H vs. L	—			
Acneiform Scars	Exposure Index-by-Presence of pre-SEA Acne (Enlisted Groundcrew)	No pre-SEA Acne	n	101		105		99		—	—		
			Abnormal	16	15.8	15	14.3	16	16.2	M vs. L	0.86 (0.39,1.86)		
		Pre-SEA Acne	Normal	85	84.2	90	85.7	83	83.8	H vs. L	1.11 (0.51,2.39)		
			n	51		57		41		—	—		
			Abnormal	6	11.8	14	24.6	17	41.5	M vs. L	2.24 (0.79,6.39)		
			Normal	45	88.2	43	75.4	24	58.5	H vs. L	5.38 (1.45,19.96)		

TABLE I-2. (continued)

Interaction Summaries of Adjusted Exposure Index Analyses of Dermatological Variables

Variable	Interaction (Occupation)	Stratification	Statistic	Exposure Index						Est. Relative Risk (95% C.I.)	p-Value		
				Low		Medium		High					
				Number	Percent	Number	Percent	Number	Percent				
Depigmentation	Exposure Index-by-Presence of pre-SEA Acne	No pre-SEA Acne	n	101		105		99		Overall			
			Abnormal	13	12.9	7	6.7	11	11.1	M vs. L	0.48 (0.19,1.27)*		
			Normal	88	87.1	98	93.3	88	88.9	H vs. L	0.85 (0.36,1.99)*		
	(Enlisted Groundcrew)	Pre-SEA Acne	n	51		57		41		Overall			
			Abnormal	2	3.9	0	0.0	6	14.6	M vs. L	0.17 (0.01, 3.67)**		
			Normal	49	96.1	57	100.0	35	85.4	H vs. L	4.20 (0.80,22.05)*		
Dermatology Index	Exposure Index-by-Race	Nonblack, No pre-SEA Acne	n	99		77		76		Overall			
			Abnormal	32	32.3	40	51.9	35	46.1	M vs. L	2.26 (1.23,4.18)*		
			Normal	67	67.7	37	48.1	41	53.9	H vs. L	1.78 (0.96,3.31)*		
	Exposure Index-by-Presence of pre-SEA Acne (Officer)	Black, No pre-SEA Acne	n	25		49		44		Overall			
			Abnormal	12	48.0	15	30.6	20	45.5	M vs. L	0.48 (0.18,1.29)*		
			Normal	13	52.0	34	69.4	24	54.5	H vs. L	0.90 (0.34,2.41)*		
	Exposure Index-by-Presence of pre-SEA Acne	Black, No pre-SEA Acne	n	1		2		1		Overall			
			Abnormal	1	100.0	0	0.0	0	0.0	M vs. L	0.07 (0.001,5.49)**		
			Normal	0	0.0	2	100.0	1	100.0	H vs. L	0.11 (0.001,10.27)**		
		Black, pre-SEA Acne	n	1		1		1		Overall			
			Abnormal	1	100.0	0	0.0	1	100.0	M vs. L	0.11 (0.001,10.27)**		
			Normal	0	0.0	1	100.0	0	0.0	H vs. L	—		

TABLE L-2. (continued)

Interaction Summaries of Adjusted Exposure
Index Analyses of Dermatological Variables

FOOTNOTES, Table L-2

*Results presented for acneiform scars (officers) are based on stratification into the four categories shown. Unadjusted results are presented for all strata except nonblack Ranch Hands with pre-SEA acne. These results are adjusted for age.

#Unadjusted estimate of relative risk and confidence interval, or p-value, based on stratified tables.

**Unadjusted estimate of relative risk and confidence interval calculated after adding 0.5 to each cell.

—No normal participants present in contrast; estimated relative risk, confidence interval and p-value not presented.

Note: Small sample sizes may affect validity of overall p-value.

Note: Results without (*) or (**) are adjusted for all other main effects in model (age, race, presence of pre-SEA acne), unless otherwise noted.

TABLE L-3.

**Unadjusted Analysis for Reported Historical
Occurrence of Acne by Group
(Original Comparisons Only)**

Group	Acne						Summary Statistics
	Yes		No		Total		
	Number	Percent	Number	Percent			
Ranch Hand Original Comparison	412	40.6	604	59.4	1,016		Est. RR: 1.18 95% C.I.: (0.99, 1.42) p-Value: 0.071
Total	349	36.5	606	63.5	955		
	761		1,210		1,971		

TABLE L-4.

**Unadjusted Analysis for Reported Historical Occurrence
Relative to 1961 by Group*
(Original Comparisons Only)**

Group	Occurrence of Acne						Summary Statistics
	Post-1961		Pre-1961		Total		
	Number	Percent	Number	Percent			
Ranch Hand Original Comparison	239	58.3	171	41.7	410		Est. RR (for post- 1961 cases): 1.14 95% C.I.: (0.85, 1.52) p-Value: 0.418
Total	192	55.2	156	44.8	348		
	431		327		758		

*Three participants deleted due to missing data on time of occurrence.

TABLE L-5.

Unadjusted Analysis for Reported Historical Occurrence of Acne
Relative to SEA Tour of Duty for Post-1961 Acne by Group*
(Original Comparisons Only)

Group	Post-1961 Acne								
	Pre-SEA		Post-SEA		Pre- and Post-SEA		Total	p-Value	
	Number	Percent	Number	Percent	Number	Percent			
Ranch Hand	58	25.4	80	35.1	90	39.5	228	0.155	
Original									
Comparison	48	26.2	81	44.2	54	29.5	183		
Total	106		161		144		411		

*Twenty post-1961 participants with acne deleted due to missing data on time of occurrence.

TABLE L-6.

Adjusted Analysis for Duration of Acne (in Years)
for Post-1961 Acne by Group*

Group	Total	Adjusted Mean**	95% C.I.**	p-Value	Covariate Remarks
Ranch Hand	219	8.18	(7.43,8.96)	0.070	Time Reference to SEA (p<0.001)
Original					
Comparison	175	7.15	(6.38,7.97)		
Total	394				

*Seventeen participants deleted due to missing data on time of occurrence.

**Converted from square root scale.

TABLE L-7.

Results Discussed Narratively
in Questionnaire Data Section of Chapter
(Original Comparisons Only)

Description	p-Value
• Effect due to SEA category in continuous analysis of duration of acne	<0.001
• Interaction between group and SEA category in continuous analysis of duration of acne	0.286
• Categorical analysis of duration of acne -- p-value for group difference	
<u>SEA Category</u>	
pre-SEA	0.718
post-SEA	0.592
pre- and post-SEA	0.753
• Intersection of Venn diagram circles (temples, ears, and eyes) -- p-value for group difference	
<u>SEA Category</u>	
post-SEA and pre- and post-SEA	0.133
post-SEA	0.627

TABLE L-8.

**Unadjusted Analyses for
Dermatological Variables by Group
(Original Comparisons Only)**

Variable	Statistic	Group		Original		Est. Relative Risk (95% C.I.)	p-Value		
		Ranch Hand		Comparison					
		Number	Percent	Number	Percent				
Comedones	n	1,016		954					
	Abnormal	250	24.6	253	26.5	0.90 (0.74,1.11)	0.352		
	Normal	766	75.4	701	73.5				
Acneiform Lesions	n	1,016		954					
	Abnormal	188	18.5	159	16.7	1.14 (0.90,1.43)	0.288		
	Normal	828	81.5	795	83.3				
Acneiform Scars	n	1,016		954					
	Abnormal	150	14.8	128	13.4	1.12 (0.87,1.44)	0.401		
	Normal	866	85.2	826	86.6				
Depigmentation	n	1,016		954					
	Abnormal	102	10.0	113	11.8	0.83 (0.63,1.10)	0.219		
	Normal	914	90.0	841	88.2				
Inclusion Cysts	n	1,016		954					
	Abnormal	114	11.2	118	12.4	0.90 (0.68,1.18)	0.442		
	Normal	902	88.8	836	87.6				
Hyperpigmentation	n	1,016		954					
	Abnormal	228	22.4	222	23.3	0.95 (0.77,1.18)	0.668		
	Normal	788	77.6	732	76.7				

TABLE L-8. (continued)

**Unadjusted Analyses for
Dermatological Variables by Group
(Original Comparisons Only)**

Variable	Statistic	Group		Original		Est. Relative Risk (95% C.I.)	p-Value		
		Ranch Hand		Comparison					
		Number	Percent	Number	Percent				
Other Abnormalities	n	1,016		954		1.03 (0.86,1.23)	0.783		
	Abnormal	608	59.8	565	59.2				
	Normal	408	40.2	389	40.8				
Dermatology Index	n	1,016		954		Overall 1 vs. 0 0.99 (0.81,1.20) 2 vs. 0 0.97 (0.73,1.29) 3 vs. 0 0.91 (0.56,1.48) 4 vs. 0 1.87 (0.63,5.49)	0.816 0.919 0.885 0.711 0.304		
	0	533	52.5	497	52.1				
	1	318	31.3	301	31.6				
	2	121	11.9	116	12.2				
	3	34	3.3	35	3.7				
	4	10	1.0	5	0.5				

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TABLE L-9.

**Adjusted Analyses for
Dermatological Variables by Group
(Original Comparisons Only)**

Variable	Group		Adj. Relative Risk (95% C.I.)	p-Value	Covariate Remarks
	Ranch Hand Total	Original Comparison Total			
Comedones	1,007	946	0.93 (0.75,1.14)	0.469	RACE (p<0.001) AGE (p<0.001) OCC*SEA ACNE (p=0.047)
Acneiform Lesions	1,007	946	1.13 (0.89,1.43)	0.315	AGE (p<0.001) RACE (p=0.034) SEA ACNE (p=0.007)
Acneiform Scars	1,007	946	1.12 (0.86,1.45)	0.417	AGE (p<0.001) RACE (p<0.001) SEA ACNE (p<0.001)
Depigmentation	1,016	954	0.83 (0.63,1.10)	0.202	RACE (p=0.010)
Inclusion Cysts	1,016	954	0.90 (0.68,1.18)*	0.442*	--
Hyperpigmentation	1,007	946	0.95 (0.76,1.17)	0.608	RACE (p<0.001) SEA ACNE (p=0.008)

TABLE L-9. (continued)

Adjusted Analyses for
Dermatological Variables by Group
(Original Comparisons Only)

Variable	Group		Adj. Relative Risk (95% C.I.)	p-Value	Covariate Remarks
	Ranch Hand Total	Original Comparison Total			
Other Abnormalities	1,016	954	1.07 (0.89,1.30)	0.459	AGE (p<0.001) RACE (p<0.001)
Dermatology Index	1,007	946	****	****	OCC (p=0.013) GROUP*SEA ACNE (p=0.030)

*No significant covariates in adjusted analysis; consequently, estimated relative risk, confidence interval, and p-value are from unadjusted analysis.

****Group-by-covariate interaction; adjusted relative risk, confidence interval, and p-value are not presented.

Abbreviations:

OCC: Occupation

SEA ACNE: Presence of pre-SEA acne

TABLE L-10.

**Summary of Group-by-Presence of Pre-SEA Acne
Interaction for Dermatology Index
(Original Comparisons Only)**

Variable	Interaction	Stratification	Statistic	Group		Contrast	Adj. Relative Risk (95% C.I.)	p-Value			
				Ranch Hand							
				Number	Percent						
Dermatology Index	Group-by-presence-of-pre-SEA acne	No	n	684		653					
			0	360	52.6	370	56.7				
			1	234	34.2	202	30.9	1 vs. 0 1.19 (0.94,1.52) 0.153			
			2	69	10.1	61	9.3	2 vs. 0 1.17 (0.80,1.70) 0.422			
			3	16	2.3	19	2.9	3 vs. 0 0.87 (0.44,1.71) 0.689			
			4	5	0.7	1	0.2	4 vs. 0 4.16 (0.61,28.48) 0.146			
	Group-by-presence-of-pre-SEA acne	Yes	n	323		293					
			0	167	51.7	122	41.6				
			1	82	25.4	98	33.4	1 vs. 0 0.62 (0.42,0.90) 0.012			
			2	51	15.8	55	18.8	2 vs. 0 0.68 (0.44,1.07) 0.097			
			3	18	5.6	15	5.1	3 vs. 0 0.89 (0.43,1.83) 0.745			
			4	5	1.5	3	1.0	4 vs. 0 1.20 (0.30,4.88) 0.797			

TABLE L-11.

**Longitudinal Analysis of the Dermatology Index:
A Contrast of Baseline and First Followup Examination Abnormalities
(Original Comparisons Only)**

Group	1982 Baseline Exam	1985 Followup Exam		Odds Ratio (OR)*	p-Value (OR_{RH} vs. OR_{OC})
		Abnormal	Normal		
Ranch Hand	Abnormal	241	136	1.68	0.53
	Normal	228	366		
Original Comparison	Abnormal	222	109	1.85	
	Normal	202	339		

*Odds Ratio:

$$\frac{\text{Number Normal Baseline, Abnormal Followup}}{\text{Number Abnormal Baseline, Normal Followup}}$$

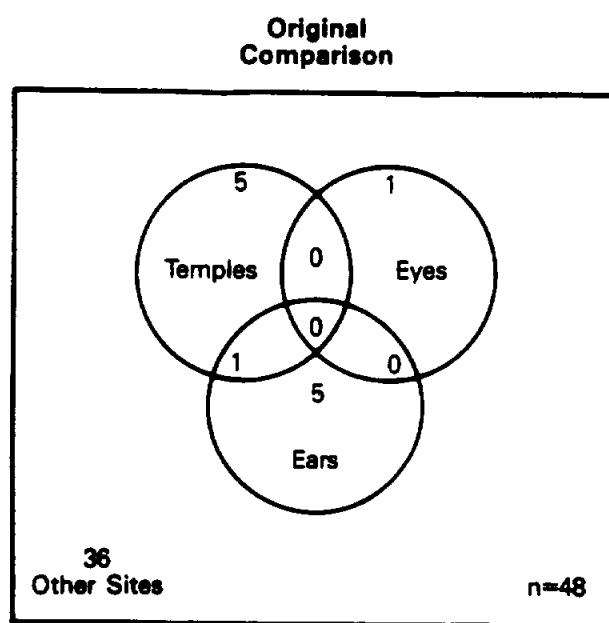
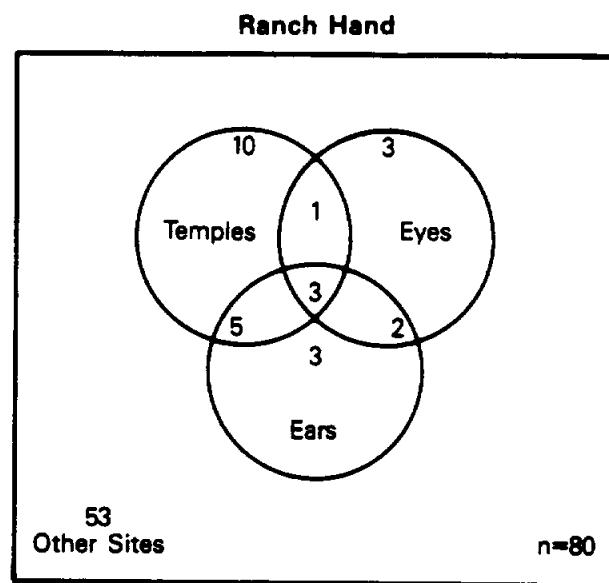


Figure L-1.
Location of Post-SEA and Pre- and Post-SEA Acne by Group
(Original Comparisons Only)

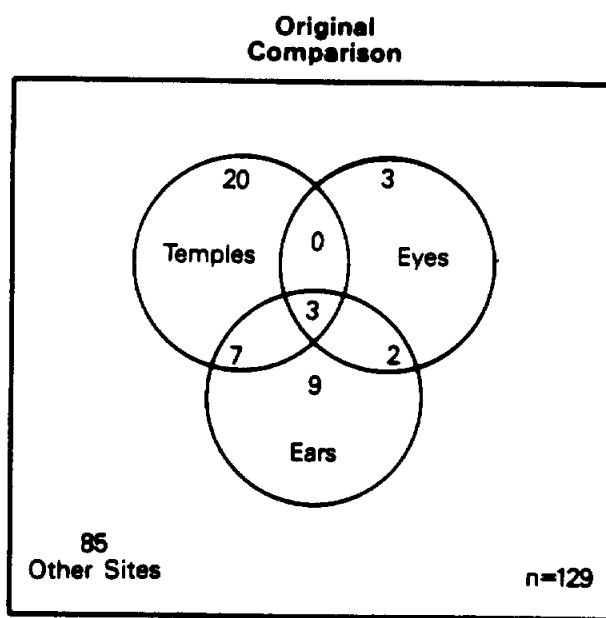
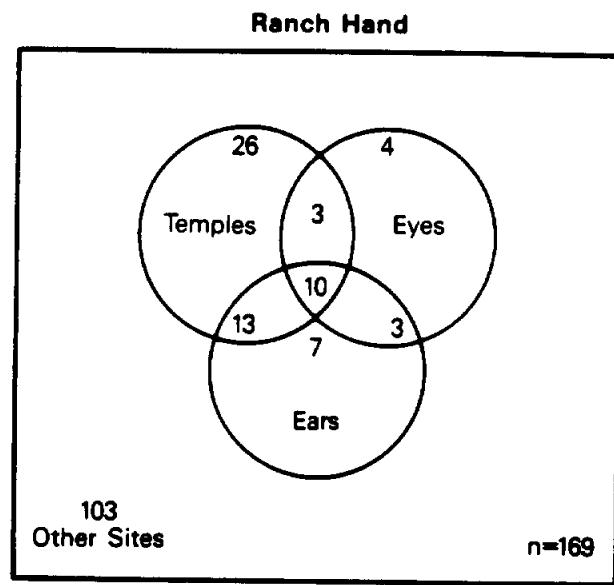


Figure L-2.
Location of Post-SEA Acne by Group
(Original Comparisons Only)