

## **APPENDIX E-1.**

### **Dependent Variable-Covariate Associations for the General Health Assessment**

This appendix contains results of tests of association between each dependent variable and candidate covariates for the adjusted analysis of each dependent variable. Pearson's chi-square test (continuity-adjusted for  $2 \times 2$  tables) is used for significance testing of the associations between each discrete dependent variable and the candidate covariate. When a candidate covariate is continuous in nature (for example, age), the covariate is discretized prior to the analysis of the discrete dependent variable. Pearson's correlation coefficient is used for significance testing of the associations between each continuous dependent variable and a continuous candidate covariate. When a candidate covariate is discrete in nature, means (transformed back to the original scale, if necessary) are presented and an analysis of variance is used to investigate the difference between the means.

**Table E-1-1.**  
**Dependent Variable-Covariate Associations for the General Health Assessment**

Dependent Variable	Level	Age			Race		
		Born ≥1942	Born <1942	p-Value	Black	Non-Black	p-Value
Self-Perception of Health	Fair or Poor	(n=954) 7.4%	(n=1,277) 9.6%	0.082	(n=131) 8.4%	(n=2,100) 8.7%	0.999
Appearance of Illness or Distress	Yes	(n=956) 1.2%	(n=1,277) 2.4%	0.041	(n=131) 1.5%	(n=2,102) 1.9%	0.999
Relative Age Appearance	Older	(n=956) 5.9%	(n=1,277) 6.0%	0.998	(n=131) 1.5%	(n=2,102) 6.2%	0.045
Body Fat (continuous) <sup>a</sup> (discrete)	Obese	(n=956) 25.0%	(n=1,277) 25.9%	r=0.009 0.681 0.657	(n=131) $\bar{x}$ =22.01 29.0%	(n=2,102) $\bar{x}$ =21.88 25.3%	0.784 0.402
Sedimentation Rate (continuous) <sup>b</sup> (discrete)	Abnormal	(n=955) 17.4%	(n=1,277) 17.7%	r=0.214 <0.001 0.891	(n=131) $\bar{x}$ =8.97 22.9%	(n=2,101) $\bar{x}$ =8.07 17.2%	0.179 0.124

<sup>a</sup> Analysis performed on natural logarithm scale; means transformed from natural logarithm scale.

<sup>b</sup> Analysis performed on natural logarithm of sedimentation rate + 0.1 scale; means transformed from natural logarithm of sedimentation rate + 0.1 scale.

**Table E-1-1. (Continued)**  
**Dependent Variable-Covariate Associations for the General Health Assessment**

Dependent Variable	Level	Occupation			p-Value	Personality Type		
		Officer	Enlisted Flyer	Enlisted Groundcrew		Type A	Type B	p-Value
Self-Perception of Health	Fair or Poor	(n=869) 5.9%	(n=365) 11.2%	(n=997) 10.2%	0.001	(n=954) 8.7%	(n=1,275) 8.7%	0.999
Appearance of Illness or Distress	Yes	(n=869) 1.7%	(n=365) 1.9%	(n=999) 2.0%	0.907	--	--	--
Relative Age Appearance	Older	(n=869) 3.6%	(n=365) 8.0%	(n=999) 7.2%	0.001	--	--	--
Body Fat (continuous) <sup>a</sup> (discrete)	Obese	(n=869) $\bar{x}$ =21.64 22.7%	(n=365) $\bar{x}$ =21.65 23.3%	(n=999) $\bar{x}$ =22.20 28.8%	0.039 0.005	-- --	-- --	-- --
Sedimentation Rate (continuous) <sup>b</sup> (discrete)	Abnormal	(n=869) $\bar{x}$ =7.64 14.0%	(n=364) $\bar{x}$ =9.27 22.3%	(n=999) $\bar{x}$ =8.15 18.9%	0.002 0.001	(n=954) $\bar{x}$ =7.46 14.9%	(n=1,276) $\bar{x}$ =8.63 19.5%	<0.001 0.005

Dependent Variable	Level	Caloric Intake (kcal/day)		p-Value
		≤ 2,000	> 2,000	
Body Fat (continuous) <sup>a</sup> (discrete)	Obese	(n=1,322) 27.1%	(n=907) 23.3%	0.001 0.048

<sup>a</sup> Analysis performed on natural logarithm scale; means transformed from natural logarithm scale.

<sup>b</sup> Analysis performed on natural logarithm of sedimentation rate + 0.1 scale; means transformed from natural logarithm of sedimentation rate + 0.1 scale.

--: Covariate not applicable for dependent variable.