Complete Model Summaries

Model Terms — Site Effects, Ln BPb, Bodymass, Age, Age^2, Hemoglobin, Serum Zn, RBC, Calcium, Alcohol, Potassium, Serum Albumin, Vit C, Riboflav., Oleic Acid, Serum Vit. C

Systolic	n	r^2	ln BPb Coef	t-value	SL
Females 12-74	2741	—	-.329	-.302	.637
Males 12-74	2615	—	2.380	2.288	.022
White Males 40-59	494	—	3.529	1.408	.160

Diastolic					
Females 12-74	2739	-	.0877	.140	.889
Males 12-74	2611	-	.4660	.721	.471
White Males 40-59	494	-	.8555	.5412	.588

Model Terms — Without Site Effects

Systolic

Females

Males

White Males 40-59

TEH 0412714

Diastolic					
Females	2738	—	1.246	2.195	.0284
Males	2610	—	2.360	3.841	.0001
White Males 40-59	493	—	4.003	2.779	.0057

5/3/85

Diastolic BP

Pirkle-type Analyses
White Males, Aged 40-59
Unweighted

Models	n	r^2	Coeff	t-value	SL
1	595	.0053	.120	1.785	.0747
1 S	595	—	.0172	.236	.8134
1 L	595	.0066	2.5747	1.990	.0470
1 SL	595	—	.5850	.409	.6825
2	595	.15	.196	3.115	.0019
2 S	595	—	.083	1.244	.2140
2 L (Cited in Pirkle)	595	.15	3.8768	3.210	.0014
2 SL	595	—	1.6746	1.270	.2046
3	575	.18	.200	3.057	.00023
3 S	575	—	.0893	1.284	.200
3 L (Pirkle Table 2)	575	.18	4.0119	3.219	.0014
3 SL	575	—	1.925	1.389	.165
4	553	.16	.212	3.223	.0013
4 S	553	—	.0649	.916	.3600
4 L	553	.16	4.261	3.344	.0009
4 SL	553	—	1.359	.964	.336

Correl:	Dia BP vs Exam Date	BPb vs Exam Date
Model 1	-.164 (.0001)	-.27082 (.0001)
2	-.164 (.0001)	-.27082 (.0001)
3	-.168 (.0001)	-.2584 (.0001)
4	-.176 (.0001)	-.2584 (.0001)

TEH 0412715

DUP050453771

5/3/85

Systolic BP

Pirkle-type Analyses
White Males, Aged 40-59
Unweighted

Models	n	r^2	BPb or Ln BPb Coeff	t-value	S.L.
1	595	.0021	.120	1.122	.262
1S	595	—	.0491	.420	.6744
1L	595	.0033	2.893	1.408	.1597
1SL	595	—	1.447	.629	.5294
2	595	.17	.257	2.601	.0095
2S	595	—	.167	1.570	.117
2L (Cited in Pirkle)	595	.17	5.329	2.819	.0050
2SL	595	—	3.525	1.685	.0926
3	575	.17	.2820	2.751	.0061
3S	575	—	.2368	2.124	*.0342
3L	575	.18	6.037	3.039	.0025
3SL	575	—	5.138	2.323	*.0206
4	553	.18	.2931	2.836	.0047
4S	553	—	.152	1.358	.1752
4L (Pirkle → Table 2)	553	.18	6.271	3.137	.0018
4SL	553	—	3.4610	1.551	.1215

	Cosel	Bias BP vs Exam	BPb vs Exam
Model 1		-.0858 (.0365)	-.27082 (.0001)
2		-.0858 (.0365)	-.27082 (.0001)
3		-.0879 (.0352)	-.25840 (.0001)
4		-.0952 (.0257)	-.2584 (.0001)

TEH 0412716

DUP050453772

MEDICAL WTS

MODELS	Systolic N	Systolic r^2	Systolic Coeff of Blood Pb on ln Blood Pb	Systolic + Value	Systolic Sign Lev	Diastolic N	Diastolic r^2	Diastolic Coeff of Blood Pb on ln Blood Pb	Diastolic + Value	Diastolic Sign Level
1	595	.0043	.1683	1.594	.1115	595	.0057	.1247	1.849	.0649
1S	595	—	.0754	.651	.5156	595	—	.0240	.329	.7420
1L	595	.0060	3.8199	1.898	.0581 ↓	595	.0067	2.5750	2.002	.0457 ↓
1LS	595	—	2.1293	0.937	.3494 ↓	595	—	.7879	.551	.5817 ↓
2	595	.1840	.2995	3.101	.0020 ↓	595	.1600	.1963	3.133	.0018 ↓
2S	595	—	.1672	1.570	.1170 ↓	595	—	.0821	1.227	.2205 ↓
2L	595	.1865	6.2088	3.378	.0008 ↓	595	.1609	3.8581	3.233	.0013 ↓
2LS	595	—	3.9731	1.929	.0543 ↓	595	—	1.7783	1.354	.1762 ↓
3	575	.1896	.3172	3.175	.0016	575	.1992	.1819	2.870	.0043 ↓
3S	575	—	.2370	2.154	.0317 *	574	—	.0749	1.083	.2794 ↓
3L	575	.1931	6.7965	3.544	.0004	575	.2004	3.6822	3.023	.0025 ↓
3LS	575	—	5.4170	2.488	.0132 *	575	—	1.7498	1.276	.2026 ↓
4	553	.1979	.3400	3.367	.0008 ↓	553	.1729 .1996	3.6	3.056	.0024 ↓
4S	553	—	.1520	1.420	.1562 ↓	553	—	.0463	.653	.5143 ↓
4L	553	.2021	7.3117	3.783	.0002 ↓	553	.1742	4.0007	3.193	.0015 ↓
4LS	553	—	3.985	1.815	.0702 ↓	553	—	1.1786	.841	.4008 ↓

CORREL	Blood Press vs Exam Date	Blood Press vs Exam Date	Blood Press vs Exam Date	Blood Pb vs Exam Date	
1	-.0781 (.0570)	-.2844 (.0001)	-.1419 (.0005)	-.2844 (.0001)	1
2	-.0781 (.0570)	-.2844 (.0001)	-.1419 (.0005)	-.2844 (.0001)	2
3	-.0826 (.0477)	-.2750 (.0001)	-.1439 (.0005)	-.2750 (.0001)	3
4	-.0880 (.0386)	-.2716 (.0001)	-.1483 (.0005)	-.2716 (.0001)	4

DUP0504537773

TEH 0412717

Systolic B.P. With Pb Wts. Diastolic B

Models	N	r^2	Coeff of Blood Pb or ln Blood Pb	t Value	Sign. Level	N	r^2	Coeff of Blood Pb or ln Blood Pb	t Value
1	595	.0045	.1718	1.634	.1027	595	.0060	.1265	1.886
1S	595	—	.0748	0.647	.5178	595	—	.0238	.328
1L	595	.0063	3.8550	1.931	.0539	595	.0069	2.5836	2.027
1SL	595	—	2.0537	.907	.3650	595	—	.7225	.508
2	595	.1844	.2994	3.113	.0019 ↓	595	.1621	.1963	3.154
2S	595	—	.1672	1.570	.1170 ↓	595	—	.0815	1.222
2L	595	.1863	6.1806	3.390	.0007 ↓	595	.1629	3.8315	3.244
2LS	595	—	3.8741	1.888	.0596 ↓	595	—	1.7124	1.312
3	575	.1902	.3168	3.184	.0001	575	.2015	.1801	2.861
3S	575	—	.2331	2.126	.0340 *	575	—	.0732	1.064
3L	575	.1936	6.7389	3.545	.0004	575	.2026	3.6052	2.393
3LS	575	—	5.2664	2.432	.0154 *	575	—	1.6513	1.214
4	553	.1983	.3398	3.383	.0008 ↓	553	.1759	.1992	3.072
4S	553	—	.1586	1.432	.1528 ↓	553	—	.0474	.673
4L	553	.2026	7.2748	3.799	.0002 ↓	553	.1771	3.961	3.199
4LS	553	—	3.9321	1.803	.0720 ↓	553		1.1473	.827
			BP vs EXAM	Blood Pb vs Exam				Blood Precs vs EXAM DATE	Blood Pb vs EXAM D
CORREL:-									
1			-.0788 (.0546)	-.2880 (.0001)				-.1380 (.0007)	-.2880 (.0
2			-.0788 (.0546)	-.2880 (.0001)				-.1380 (.0007)	-.2880 (.0
3			-.0831 (.0464)	-.2789 (.0001)				-.1394 (.0008)	-.2789 (.0
4			-.0881 (.0383)	-.2756 (.0001)				-.1430 (.0007)	-.2756 (.0

DUP0504537774

Systolic BP — Harlan-type Analyses Unweighted — 5/3/85

	n	r^2	Coeff	t-value	SL
All Males 12-74					
5L	2794	.23	3.434	3.68	.0002
5LS	2794	—	1.947	2.00	* .0460
Males 21-55					
5L	1307	.17	3.560	2.837	.0046
5SL	1307	—	1.081	.825	.4098
White Males 21-55					
5L	1175	.18	3.821	2.945	.0033
5SL	1175	—	1.205	.891	.373
Males 56-74					
5L	915	.060	5.219	2.663	.008
5SL	915	—	3.908	1.858	.064
White Males 56-74					
5L	823	.060	5.165	2.431	.015
5SL	823	—	3.980	1.73	.084
All Women					
5L	2921	.89	.199	.213	.83
5SL	2921	—	-.505	-.481	.63
Women 21-55					
5L	1385	.28	-.694	-.609	.54
5SL	1385	—	-1.542	-1.213	.226

TEH 0412719

DUP050453775

Diastolic

5/3/85

Women 56-74	n	r^2	Coeff	t-value	SL
SL	1008	.15	.709	.693	.489
SLS	1008	—	−.242	−.209	.835

Correl. Coeff.

	Dias vs Exam	BPb vs Exam
All Males 12-74	−.109 (.0001)	−.233 (.0001)
Males 21-55	−.160 (.0001)	−.278 (.0001)
White Males 21-55	−.179 (.0001)	−.277 (.0001)
Males 56-74	−.172 (.0001)	−.055 (.0992)
White Males 56-74	−.034 (.3214)	−.203 (.0001)
All Women	−.074 (.0001)	−.292 (.0001)
Women 21-55	−.104 (.0001)	−.307 (.0001)
Women 56-74	−.026 (.4063)	−.249 (.0001)

Note: White males Diastol BP has no trend & Woman 56-74 & Model SL is not significant
Everywhere where a trend is significant model SL is significant except women 21-55

DUP050453776

5/3/85

Systolic

Women 56-74	n	r^2	Coeff	t-Value	SL
SL	1007	.14	1.897	.924	.36
SSL	1007	—	1.702	.727	.48

Correlation Coeff

	Sys vs Exam	Bpb vs Exam
All Males	−.065 (.0005)	−.234 (.0001)
Males 21-55	−.101 (.0002)	−.281 (.0001)
White Males 21-55	−.106 (.0003)	−.279 (.0001)
Males 56-74	−.038 (.2519)	−.173 (.0001)
White Males 56-74	−.012 (.720)	−.204 (.0001)
All Women	−.048 (.0096)	−.292 (.0001)
Women 21-55	−.055 (.041)	−.305 (.0001)
Women 56-74	−.023 (.463)	−.250 (.0001)

TEH 0412721

DUP050453777

5/3/85

Diastolic BP

Harlan-type Analyses
Unweighted

	n	r^2	Coeff	t-value	SL
All Males					
SL	2789	.24	2.017	3.477	.0005
SLS	2789	—	.360	.593	.553
Males 21-55					
SL	1306	.23	2.212	2.623	.0088
SLS	1306	—	−.0242	−.028	.9780
White Male 21-55					
SL	1175	.24	2.582	2.950	.0032
SSL	1175	—	.289	.318	.7502
Males 56-74					
SL	913	.074	2.228	2.018	.0439
SSL	913	—	.802	.677	.4985
White Males 56-74					
SL	821	.076	1.665	1.429	.153
SSL	821	—	.0351	.028	.978
All Women					
SL	2918	.27	1.222	2.224	.0262
SSL	2918	—	−.001412	−.002	.998
Women 21-55					
SL	1382	.26	1.245	1.586	.113
SSL	1382	—	−.170	−.199	.842

TEH 0412722

DUP050453778

5/6/85

Harlan-type Analyses
Med Wt = Wt
~~Lean Wt~~ = Wt

	Systolic BP						Diastolic BP					
	n	r^2	Coeff	t	SL		n	r^2	Coeff	t	SL	
All Males (12-74)												
SL	2794	.237	2.602	3.084	.0021	-.0218	2789	.274	1.788	3.209	.0013	-.1019
SLS			1.102	1.231	.2185	(.0001)			.0468	.081	.9355	(.0001)
Males (21-55)												
SL	1307	.170	3.257	2.706	.0069	-.0976	1306	.229	1.910	2.325	.0202	-.14583
SLS			1.136	.902	.3675	(.0004)			.044	.052	.9585	(.0001)
White Males (21-55)												
SL	1175	.175	3.448	2.769	.0057	-.10624	1175	.239	2.165	2.549	.0109	-.16928
SLS			1.256	.964	.3350	(.0003)			.150	.171	.8645	(.0001)
Males (56-74)												
SL	915	.070	5.529	2.849	.0045	-.0647	913	.105	2.578	2.372	.0179	-.0580
SLS			4.187	2.025	.0432	(.0503)			.802	.677	.499	(.0801)
White Males (56-74)												
SL	823	.069	5.705	2.740	.0063	-.0385	821	.108	2.228	1.966	.0496	-.04763
SLS			3.980	1.730	.0841	(.2706)			.559	.455	.650	(.1727)
All Women												
SL	2921	.362	-.646	-.750	.4533	-.0450	2918	.266	.870	1.623	.1048	-.01344
SLS			-1.377	-1.424	.155	(.0017)			-.423	-.719	.4720	(.0001)
Women 21-55												
SL	1385	.264	-.883	-.780	.4354	-.0450	1382	.249	1.179	1.521	.129	-.10162
SLS			-1.249	-.990	.3226	(.0006)			-.231	-.273	.785	(.0001)
Women 56-74												
SL	1007	.138	1.897	.924	.356	-.0077	1008	.185	-1.416	-1.406	.1601	-.0296
SLS			.086	.037	.970	(.4082)			-1.877	-1.635	.1023	(.3477)

DUP050453779

TEH 0412723

5/6/85

Harlan-type Analyses
Lead Wt = WT

	Systolic						Diastolic					
	n	r^2	Coeff	t	SL		n	r^2	Coeff	t	SL	
All Males												
SL	2794	.237	2.512	2.964	(.0031	.464	2789	.277	1.729	3.128	(.0018	−.1008
SLS		—	.965	1.093	✓.2745	(.0007)		—	−.047	−.082	✓.9344	(.0001)
Males 21-55												
SL	1307	.170	3.296	2.758	(.0059	−.011	1306	.231	1.895	2.325	(.0202	−.1454
SLS			1.026	1.253	✓.4129	(.0004)			−.057	−.068	✓.946	(.0001)
White Males 21-55												
SL	1175	.170	3.472	2.803	(.0051	−.1046	1175	.243	2.136	2.532	(.0115	−.1669
SLS			1.185	.912	✓.3617	(.0003)			.057	.065	✓.9482	(.0001)
Males 56-74												
SL	915	.0735	5.246	2.766	(.0058	−.0605	913	.1036	2.401	2.23	(.0259	−.0375
SLS			3.7914	1.875	✓.0611	(.0677)			.802	.677	✓.499	(.1096)
White Males 56-74												
SL	823	.0743	5.426	2.663	(.0079	−.0558	821	.1093	2.035	1.808	(.0709	−.0459
SLS			3.980	1.730	✓.0841	(.2748)			.317	.260	✓.7951	(.1458)
All Women												
SL	2921	.356	−.688	−.813	.416	−.04567	2918	.265	.909	1.709	(.0876	−.07611
SLS			−1.398	−1.474	.1406	.0136			−.373	−.640	✓.5225	.0001
Women 21-55												
SL	1385	.264	−.837	−.743	.4576	−.022	1382	.249	1.137	1.475	(.1404	−.1029
SLS			−1.2296	−.977	.3286	(.0522)			−.275	−.326	✓.7445	(.0001)
Women 56-74												
SL	1007	.138	1.897	.924	.356	−.09915	1007	.184	−1.465	−1.452	.145	+.03519
SLS			.0193	.008	.9933	(.8842)			−1.883	−1.637	.102	(.2644)

DUP050453780

TEH 0412724