

表 3-1A

```
. reg logp1 k_11 k_12 k_20 k_21 k_24 k_25 k_43 k_44 k_58 k_59 k_60 k_63 k_64 k_
> 65 k_71 k_72 k_74 m_18 m_27 m_28 m_29 m_31 m_34 m_37 m_46 m_64 m_65 m_66
m_7
> 3, cluster(x2)
```

Regression with robust standard errors

Number of obs = 46783
 F(29, 14618) = 45.00
 Prob > F = 0.0000
 R-squared = 0.0403
 Root MSE = 3.7729

Number of clusters (x2) = 14619

logp1	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
身長	-.0360693	.004232	-8.52	0.000	-.0443645	-.0277741
体重	.0097315	.0032457	3.00	0.003	.0033694	.0160936
聴力1右	-.0077672	.1636109	-0.05	0.962	-.3284652	.3129308
聴力1左	.0508965	.1588371	0.32	0.749	-.2604442	.3622372
聴力4右	.1506932	.081991	1.84	0.066	-.0100194	.3114059
聴力4左			.1634249		.0803827	2.03
0.042	.0058647	.3209852				
血圧高	.0044313	.0019685	2.25	0.024	.0005727	.0082899
血圧低	.0212137	.002815	7.54	0.000	.0156959	.0267315
総コレステ	.003828	.000717	5.34	0.000	.0024225	.0052334
中性脂肪	-.0005136	.0002483	-2.07	0.039	-.0010002	-.0000269
HDL コレステ		-.002634		.0018419	-1.43	0.153
-.0062443	.0009763					
尿素窒素	.028868	.0058505	4.93	0.000	.0174003	.0403357
クレアチニン	.5151096	.0985336	5.23	0.000	.3219713	.708248
尿酸	.0147922	.0190974	0.77	0.439	-.0226411	.0522255
尿糖定性	.130853	.0514291	2.54	0.011	.0300455	.2316604
尿蛋白定性	.1291493	.0439353	2.94	0.003	.0430307	.215268
尿潜血	.0241389	.0318797	0.76	0.449	-.0383493	.0866272
GTT 血糖(前)	.0092636	.0012807	7.23	0.000	.0067532	.0117739
GOT			.0115555		.0026742	4.32
0.000	.0063138	.0167972				
GPT	-.0038269	.0017435	-2.19	0.028	-.0072444	-.0004094
γ GTP			.0019363		.0005567	3.48
0.001	.0008451	.0030275				
ALP(IU/l)	.0035937	.0003686	9.75	0.000	.0028712	.0043161
総ビルビリ	.0212722	.0686867	0.31	0.757	-.1133625	.1559068
総蛋白	.0022368	.0558771	0.04	0.968	-.1072894	.1117629
血清アマ	.0007997	.0007468	1.07	0.284	-.0006641	.0022635
赤血球	-.0006522	.0009405	-0.69	0.488	-.0024957	.0011912
ヘモグロ	.0350934	.038289	0.92	0.359	-.0399579	.1101447
ヘマトクリ	-.0956358	.0130133	-7.35	0.000	-.1211436	-.0701281
白血球	-.0000605	.0000133	-4.55	0.000	-.0000865	-.0000344
_cons	7.792204	.8006023	9.73	0.000	6.222922	9.361485

表 3-2A

```
. reg logp2 k_11 k_12 k_20 k_21 k_24 k_25 k_43 k_44 k_58 k_59 k_60 k_63 k_64 k_
> 65 k_71 k_72 k_74 m_18 m_27 m_28 m_29 m_31 m_34 m_37 m_46 m_64 m_65 m_66
m_7
> 3, cluster(x2)
```

Regression with robust standard errors

Number of obs = 36006
 F(29, 13186) = 37.77
 Prob > F = 0.0000
 R-squared = 0.0402
 Root MSE = 3.7543

Number of clusters (x2) = 13187

	logp2	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
身長		-.0345756	.0046138	-7.49	0.000	-.0436193	-.025532
体重		.0079835	.0035161	2.27	0.023	.0010915	.0148755
聴力1右		-.2991934	.1827184	-1.64	0.102	-.6573478	.0589609
聴力1左		.3609224	.1755848	2.06	0.040	.0167509	.705094
聴力4右		.1617546	.0891058	1.82	0.069	-.0129055	.3364147
聴力4左		.1845911	.0881953	2.09	0.036	.0117155	.3574666
血圧高		.0043656	.002174	2.01	0.045	.0001043	.0086269
血圧低		.0243574	.0031032	7.85	0.000	.0182747	.03044
総コレステ		.0036994	.0007993	4.63	0.000	.0021326	.0052661
中性脂肪		-.00035	.0002937	-1.19	0.233	-.0009257	.0002256
HDL コレステ		-.0038813			.0020535	-1.89	0.059
		-.0079065	.0001438				
尿素窒素		.0238216	.0063968	3.72	0.000	.0112829	.0363603
クレアチニン		.5631616	.1113335	5.06	0.000	.344932	.7813912
尿酸		.0040233	.0209469	0.19	0.848	-.0370355	.0450821
尿糖定性		.0729839	.0554759	1.32	0.188	-.0357568	.1817246
尿蛋白定性		.2269084	.0449587	5.05	0.000	.138783	.3150339
尿潜血		.0582189	.034401	1.69	0.091	-.0092121	.1256498
GTT 血糖(前)		.0116859	.0013636	8.57	0.000	.0090129	.0143588
GOT				.0080252		.0039817	2.02
		0.044	.0002205	.01583			
GPT		-.0021668	.0021182	-1.02	0.306	-.0063188	.0019852
γ GTP			.0013149		.0006903	1.90	0.057
		-.0000382	.0026681				
ALP(IU/l)		.0034635	.0004508	7.68	0.000	.00258	.0043471
総ビルビリ		-.053395	.0761909	-0.70	0.483	-.2027401	.0959502
総蛋白		-.236038	.0632835	-3.73	0.000	-.3600828	-.1119931
血清アマ		.0004318	.000785	0.55	0.582	-.0011069	.0019705
赤血球		.0008444	.0010612	0.80	0.426	-.0012356	.0029244
ヘモグロ		-.0019933	.0408741	-0.05	0.961	-.0821124	.0781259
ヘマトクリ		-.0766971	.0139326	-5.50	0.000	-.104007	-.0493872
白血球		-.0000744	.0000145	-5.12	0.000	-.0001029	-.0000459
_cons		8.336189	.8754034	9.52	0.000	6.620272	10.05211

表 3-3A

```
. reg logp3 k_11 k_12 k_20 k_21 k_24 k_25 k_43 k_44 k_58 k_59 k_60 k_63 k_64 k_
> 65 k_71 k_72 k_74 m_18 m_27 m_28 m_29 m_31 m_34 m_37 m_46 m_64 m_65 m_66
m_7
> 3, cluster(x2)
```

Regression with robust standard errors

Number of obs = 33463
 F(29, 12919) = 29.47
 Prob > F = 0.0000
 R-squared = 0.0375
 Root MSE = 3.7081

Number of clusters (x2) = 12920

logp3	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
身長	-.024162	.0051757	-4.67	0.000	-.0343072	-.0140169
体重	.0062596	.0039328	1.59	0.111	-.0014493	.0139685
聴力1右	-.3072038	.1979006	-1.55	0.121	-.6951181	.0807105
聴力1左	.0484187	.1897581	0.26	0.799	-.3235351	.4203726
聴力4右	.1280516	.0981061	1.31	0.192	-.0642509	.3203541
聴力4左	.1454947	.0953952	1.53	0.127	-.0414939	.3324833
血圧高	.0039284	.0022722	1.73	0.084	-.0005254	.0083821
血圧低	.0244487	.0032399	7.55	0.000	.0180979	.0307995
総コレステ	.0048046	.0008852	5.43	0.000	.0030696	.0065396
中性脂肪	-.0005945	.0003096	-1.92	0.055	-.0012014	.0000123
HDL コレステ		-.0032755		.0022527	-1.45	0.146
-.007691	.0011401					
尿素窒素	.0213517	.0068152	3.13	0.002	.0079928	.0347105
クレアチニン	.5907672	.1273413	4.64	0.000	.3411595	.840375
尿酸	.047341	.0230318	2.06	0.040	.0021954	.0924867
尿糖定性	.1572773	.0550258	2.86	0.004	.0494186	.265136
尿蛋白定性	.1723431	.0462135	3.73	0.000	.0817578	.2629283
尿潜血	.0600989	.0370743	1.62	0.105	-.0125721	.1327699
GTT 血糖(前)	.0095267	.0014672	6.49	0.000	.0066508	.0124027
GOT			.0085922		.0038544	2.23
0.026	.0010369	.0161474				
GPT	-.0020885	.0022398	-0.93	0.351	-.0064788	.0023018
γ GTP			.0014538		.0006718	2.16
0.030	.0001369	.0027707				
ALP(IU/l)	.0029604	.0004826	6.13	0.000	.0020145	.0039064
総ビルビリ	.01512	.0821909	0.18	0.854	-.1459862	.1762263
総蛋白	-.2211351	.0680244	-3.25	0.001	-.354473	-.0877973
血清アマ	.0006444	.0008379	0.77	0.442	-.000998	.0022868
赤血球	.0015048	.0011558	1.30	0.193	-.0007607	.0037702
ヘモグロ	.0100887	.0438399	0.23	0.818	-.0758441	.0960214
ヘマトクリ	-.0964281	.0151483	-6.37	0.000	-.1261211	-.0667351
白血球	-.0000567	.0000157	-3.60	0.000	-.0000875	-.0000258
_cons	7.227735	.9613604	7.52	0.000	5.343327	9.112143

表 3-4A

```
. reg logp4 k_11 k_12 k_20 k_21 k_24 k_25 k_43 k_44 k_58 k_59 k_60 k_63 k_64 k_
> 65 k_71 k_72 k_74 m_18 m_27 m_28 m_29 m_31 m_34 m_37 m_46 m_64 m_65 m_66
m_7
> 3, cluster(x2)
```

Regression with robust standard errors

Number of obs = 14750
 F(29, 8692) = 16.95
 Prob > F = 0.0000
 R-squared = 0.0337
 Root MSE = 3.6883

Number of clusters (x2) = 8693

	logp4	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
身長		-.02775	.0062584	-4.43	0.000	-.0400179	-.015482
体重		.0041134	.0048427	0.85	0.396	-.0053795	.0136063
聴力 1 右		-.0696539	.2734226	-0.25	0.799	-.6056269	.4663191
聴力 1 左		.0603573	.2805682	0.22	0.830	-.4896229	.6103375
聴力 4 右		.2031739	.1325217	1.53	0.125	-.0566	.4629479
聴力 4 左		.0034608	.1328208	0.03	0.979	-.2568994	.263821
血圧高		.0010156	.0031524	0.32	0.747	-.0051638	.0071949
血圧低		.0280632	.004576	6.13	0.000	.0190933	.0370332
総コレステ		.0036856	.0011394	3.23	0.001	.0014522	.005919
中性脂肪		-.0004457	.0004341	-1.03	0.305	-.0012967	.0004053
HDL コレステ		-.0073865	.0028709	-2.57	0.010	-.013014	-.0017589
尿素窒素		.0272288	.008617	3.16	0.002	.0103376	.0441201
クレアチニン		.3999289	.1535675	2.60	0.009	.0989002	.7009576
尿酸		.021648	.0289348	0.75	0.454	-.0350711	.0783671
尿糖定性		.2207231	.0763209	2.89	0.004	.0711161	.37033
尿蛋白定性		.2642134	.063665	4.15	0.000	.1394149	.3890119
尿潜血		.001859	.0489504	0.04	0.970	-.0940953	.0978134
GTT 血糖(前)		.0079856	.0018542	4.31	0.000	.0043508	.0116203
GOT			.0071525		.0059922	1.19	0.233
		-.0045937	.0188987				
GPT		-.0001567	.0031637	-0.05	0.960	-.0063583	.0060448
γ GTP				.0024382		.0009405	2.59
		0.010	.0005945	.0042819			
ALP(IU/l)		-.0001264	.0007404	-0.17	0.864	-.0015777	.001325
総ビルビリ		.0593964	.1076179	0.55	0.581	-.1515602	.270353
総蛋白		-.2946741	.0849411	-3.47	0.001	-.4611788	-.1281694
血清アマ		-.0026307	.0010298	-2.55	0.011	-.0046494	-.0006119
赤血球		.0027985	.0014495	1.93	0.054	-.0000429	.0056399
ヘモグロ		-.0447182	.0690194	-0.65	0.517	-.1800126	.0905762
ヘマトクリ		-.0724517	.0238177	-3.04	0.002	-.11914	-.0257633
白血球		-.0000639	.0000203	-3.15	0.002	-.0001037	-.0000242
_cons		9.142382	1.17566	7.78	0.000	6.837809	11.44695

表 3-5A

```
. reg logp5 k_11 k_12 k_20 k_21 k_24 k_25 k_43 k_44 k_58 k_59 k_60 k_63 k_64 k_
> 65 k_71 k_72 k_74 m_18 m_27 m_28 m_29 m_31 m_34 m_37 m_46 m_64 m_65 m_66
m_7
> 3, cluster(x2)
```

Regression with robust standard errors

Number of obs = 6787
 F(29, 6783) = 8.14
 Prob > F = 0.0000
 R-squared = 0.0282
 Root MSE = 3.4412

Number of clusters (x2) = 6784

	logp5	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
身長		-.0272419	.0078116	-3.49	0.000	-.0425551	-.0119287
体重		.0080393	.005929	1.36	0.175	-.0035833	.0196619
聴力 1 右		.1457865	.362752	0.40	0.688	-.5653211	.8568942
聴力 1 左		-.2839175	.385551	-0.74	0.462	-1.039718	.4718836
聴力 4 右		.1084551	.1714755	0.63	0.527	-.2276907	.4446008
聴力 4 左		.1187997	.1681725	0.71	0.480	-.2108711	.4484705
血圧高		-.0003153	.0040509	-0.08	0.938	-.0082564	.0076257
血圧低		.0273515	.0059133	4.63	0.000	.0157595	.0389436
総コレステ		.0000509	.0014316	0.04	0.972	-.0027555	.0028572
中性脂肪		-.0005752	.0005877	-0.98	0.328	-.0017273	.0005768
HDL コレステ		-.0104312	.0038291	-2.72	0.006	-.0179374	-.002925
尿素窒素		.0238523	.0117818	2.02	0.043	.0007563	.0469483
クレアチニン		.3232213	.1389102	2.33	0.020	.0509137	.595529
尿酸		.017095	.036507	0.47	0.640	-.0544702	.0886601
尿糖定性		.068279	.1052124	0.65	0.516	-.1379703	.2745283
尿蛋白定性		.2335024	.0889107	2.63	0.009	.0592095	.4077953
尿潜血		-.0406371	.066091	-0.61	0.539	-.1701962	.0889219
GTT 血糖(前)		.0091738	.0024146	3.80	0.000	.0044405	.0139072
GOT			.0152674		.0082327	1.85	0.064
		.031406					
GPT		-.0048299	.0041302	-1.17	0.242	-.0129264	.0032667
γ GTP			.0009216		.0013771	0.67	0.503
		.0036211					
ALP(IU/l)		.000248	.0009061	0.27	0.784	-.0015281	.0020242
総ビルビリ		.2410815	.1318857	1.83	0.068	-.0174558	.4996189
総蛋白		-.0536505	.1095859	-0.49	0.624	-.2684733	.1611723
血清アミラ		-.0011752	.0012371	-0.95	0.342	-.0036003	.0012499
赤血球		.0027777	.001879	1.48	0.139	-.0009058	.0064612
ヘモグロビン		-.2897094	.0923892	-3.14	0.002	-.4708213	-.1085975
ヘマトクリ		.0609114	.0334172	1.82	0.068	-.0045968	.1264195
白血球		-.0000516	.0000255	-2.02	0.044	-.0001016	-.149e-06
_cons		6.352515	1.528993	4.15	0.000	3.355209	9.349821

表 3B

```
. reg logsx16 k_11 bmi k_20 k_21 k_24 k_25 k_43 k_58 k_59 k_60 k_64 k_65 k_71 k
> _72 k_74 m_18 m_27 m_28 m_29 m_31 m_64 m_65 m_66
```

Source	SS	df	MS	Number of obs = 46296	
			F(23, 46272) = 124.50		
Model	4357.60673	23	189.461162	Prob > F	= 0.0000
Residual	70418.0046	46272	1.52182755	R-squared	= 0.0583
			Adj R-squared = 0.0578		
Total	74775.6113	46295	1.61519843	Root MSE	= 1.2336

logsx16	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
身長	-.0120194	.0008469	-14.19	0.000	-.0136794	-.0103595
bmi	80.00554	23.30761	3.43	0.001	34.32228	125.6888
聴力 1 右	.0805882	.0313658	2.57	0.010	.0191109	.1420656
聴力 1 左	.0448117	.0309065	1.45	0.147	-.0157656	.1053889
聴力 4 右	.1316285	.0241144	5.46	0.000	.0843638	.1788931
聴力 4 左	.1250015	.023767	5.26	0.000	.0784178	.1715852
血圧高	.007926	.0003678	21.55	0.000	.0072051	.008647
総コレステ	-.000535	.0001796	-2.98	0.003	-.000887	-.000183
中性脂肪	-.0001764	.0000645	-2.74	0.006	-.0003028	-.00005
HDL コレステ	-.0011054	.0004305	-2.57	0.010	-.0019492	-.0002617
クレアチニン	.3149788	.0235827	13.36	0.000	.2687562	.3612013
尿酸	.0098678	.0046774	2.11	0.035	.0007	.0190356
尿糖 (定性)	.0899896	.0151238	5.95	0.000	.0603466	.1196325
尿蛋白	.1180447	.01214	9.72	0.000	.0942502	.1418392
尿潜血	.0270921	.0074707	3.63	0.000	.0124495	.0417347
GTT 血糖 (前)	.0055054	.0003577	15.39	0.000	.0048043	.0062065
GOT	.0051379	.0007968	6.45	0.000	.0035762	.0066996
GPT	-.0003708	.000541	-0.69	0.493	-.0014312	.0006895
γGTP	-.0004133	.0001384	-2.99	0.003	-.0006845	-.0001421
ALP(IU/l)	.0002219	.0000964	2.30	0.021	.000033	.0004108
赤血球	-.001012	.000241	-4.20	0.000	-.0014843	-.0005396
ヘモグロビン	.0221361	.0080402	2.75	0.006	.0063773	.037895
ヘマトクリ	-.025597	.0028788	-8.89	0.000	-.0312395	-.0199545
_cons	9.374207	.1667553	56.22	0.000	9.047364	9.70105

表 3-1B

```
. reg logp1 k_11 bmi k_20 k_21 k_24 k_25 k_43 k_58 k_59 k_60 k_64 k_65 k_71 k_7
> 2 k_74 m_18 m_27 m_28 m_29 m_31 m_64 m_65 m_66
```

Source	SS	df	MS	Number of obs =	37430
			F(23, 37406) =	106.90	
Model	3875.46905	23	168.498654	Prob > F	= 0.0000
Residual	58960.6871	37406	1.57623609	R-squared	= 0.0617
			Adj R-squared =	0.0611	
Total	62836.1561	37429	1.67880938	Root MSE	= 1.2555

logp1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
身長	-.0109265	.0009624	-11.35	0.000	-.0128129	-.0090401
bmi	95.74907	26.56093	3.60	0.000	43.68892	147.8092
聴力1右	.0867731	.0355216	2.44	0.015	.0171497	.1563965
聴力1左	.0500072	.0355427	1.41	0.159	-.0196574	.1196719
聴力4右	.1125747	.0273883	4.11	0.000	.0588928	.1662565
聴力4左	.1240212	.027042	4.59	0.000	.0710181	.1770242
血圧高	.0086266	.0004156	20.76	0.000	.0078121	.0094411
総コレステ	-.0005382	.0002014	-2.67	0.008	-.0009331	-.0001434
中性脂肪	7.17e-06	.0000717	0.10	0.920	-.0001335	.0001478
HDL コレステ	-.0003869	.0004842	-0.80	0.424	-.001336	.0005621
クレアチニン	.3079521	.0267335	11.52	0.000	.2555537	.3603506
尿酸	.0162049	.0052751	3.07	0.002	.0058656	.0265443
尿糖 (定性)	.1231551	.0170874	7.21	0.000	.0896633	.1566468
尿蛋白	.1142347	.0136595	8.36	0.000	.0874618	.1410076
尿潜血	.0227076	.0083362	2.72	0.006	.0063684	.0390468
GTT 血糖 (前)	.005771	.0004004	14.41	0.000	.0049862	.0065558
GOT	.0078737	.0009339	8.43	0.000	.0060431	.0097042
GPT	-.002306	.0006253	-3.69	0.000	-.0035316	-.0010804
γGTP	-.0005272	.00016	-3.30	0.001	-.0008408	-.0002137
ALP(IU/l)	.0001609	.0001098	1.47	0.143	-.0000544	.0003762
赤血球	-.0007818	.0002724	-2.87	0.004	-.0013158	-.0002478
ヘモグロビン	.0202862	.0092195	2.20	0.028	.0022156	.0383568
ヘマトクリ	-.0274529	.0032965	-8.33	0.000	-.0339141	-.0209916
_cons	8.96477	.1900933	47.16	0.000	8.592181	9.337358

表 3-2B

```
. reg logp2 k_11 bmi k_20 k_21 k_24 k_25 k_43 k_58 k_59 k_60 k_64 k_65 k_71 k_7
> 2 k_74 m_18 m_27 m_28 m_29 m_31 m_64 m_65 m_66
```

Source	SS	df	MS	Number of obs =	28109
			F(23, 28085) =	88.13	
Model	3196.43744	23	138.975541	Prob > F	= 0.0000
Residual	44288.2272	28085	1.57693527	R-squared	= 0.0673
			Adj R-squared =	0.0666	
Total	47484.6646	28108	1.68936476	Root MSE	= 1.2558

logp2	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
身長	-.0119062	.0011142	-10.69	0.000	-.0140901	-.0097223
bmi	96.08716	30.8513	3.11	0.002	35.61711	156.5572
聴力 1 右	.1063264	.0410419	2.59	0.010	.0258823	.1867705
聴力 1 左	.0500735	.0403031	1.24	0.214	-.0289226	.1290696
聴力 4 右	.0708644	.0316777	2.24	0.025	.0087747	.1329541
聴力 4 左	.1542751	.0310598	4.97	0.000	.0933964	.2151539
血圧高	.0090239	.0004782	18.87	0.000	.0080866	.0099612
総コレステ	-.0000405	.0002284	-0.18	0.859	-.0004881	.0004071
中性脂肪	-.0000158	.0000802	-0.20	0.843	-.0001731	.0001414
HDL コレステ	-.0008538	.0005748	-1.49	0.137	-.0019806	.0002729
クレアチニン	.280142	.033169	8.45	0.000	.2151292	.3451549
尿酸	.0244507	.0060423	4.05	0.000	.0126075	.0362939
尿糖 (定性)	.1337785	.0199888	6.69	0.000	.0945995	.1729574
尿蛋白	.1316088	.0160271	8.21	0.000	.1001949	.1630226
尿潜血	.0265462	.0094944	2.80	0.005	.0079367	.0451556
GTT 血糖 (前)	.0058033	.0004556	12.74	0.000	.0049104	.0066963
GOT	.0078914	.0010859	7.27	0.000	.0057629	.0100199
GPT	-.0023494	.0007093	-3.31	0.001	-.0037397	-.0009591
γGTP	-.0003712	.0001877	-1.98	0.048	-.000739	-3.36e-06
ALP(IU/l)	.0003493	.0001293	2.70	0.007	.0000959	.0006028
赤血球	-.0009127	.0003158	-2.89	0.004	-.0015317	-.0002937
ヘモグロビン	.0136502	.0102151	1.34	0.181	-.0063719	.0336723
ヘマトクリ	-.0259587	.003742	-6.94	0.000	-.0332932	-.0186242
_cons	9.052979	.2209837	40.97	0.000	8.61984	9.486118

表 3-3B

```
. reg logp3 k_11 bmi k_20 k_21 k_24 k_25 k_43 k_58 k_59 k_60 k_64 k_65 k_71 k_7
> 2 k_74 m_18 m_27 m_28 m_29 m_31 m_64 m_65 m_66
```

Source	SS	df	MS	Number of obs = 19397	
			F(23, 19373) = 66.73		
Model	2441.91507	23	106.17022	Prob > F	= 0.0000
Residual	30823.5958	19373	1.59105951	R-squared	= 0.0734
			Adj R-squared = 0.0723		
Total	33265.5109	19396	1.71507068	Root MSE	= 1.2614

logp3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
身長	-.0116158	.0013555	-8.57	0.000	-.0142727	-.008959
bmi	110.9258	37.64524	2.95	0.003	37.13786	184.7137
聴力1右	.1467793	.0504722	2.91	0.004	.0478495	.2457091
聴力1左	-.0290045	.0484388	-0.60	0.549	-.1239487	.0659397
聴力4右	.0533396	.0383127	1.39	0.164	-.0217567	.1284359
聴力4左	.1514974	.0375789	4.03	0.000	.0778395	.2251553
血圧高	.0096506	.0005803	16.63	0.000	.0085132	.010788
総コレステ	.0003407	.0002693	1.27	0.206	-.0001872	.0008686
中性脂肪	-.0000162	.0000992	-0.16	0.870	-.0002105	.0001782
HDL コレステ	-.001345	.0006814	-1.97	0.048	-.0026806	-9.28e-06
クレアチニン	.3002094	.0407232	7.37	0.000	.2203884	.3800303
尿酸	.0339482	.0072881	4.66	0.000	.019663	.0482335
尿糖 (定性)	.1827236	.0243496	7.50	0.000	.1349963	.2304509
尿蛋白	.1240674	.0195076	6.36	0.000	.0858308	.162304
尿潜血	.0393015	.0114278	3.44	0.001	.0169021	.061701
GTT 血糖 (前)	.005324	.0005432	9.80	0.000	.0042593	.0063886
GOT	.0085733	.0013484	6.36	0.000	.0059303	.0112163
GPT	-.0029335	.0008905	-3.29	0.001	-.0046789	-.001188
γGTP	-.0003817	.0002228	-1.71	0.087	-.0008185	.000055
ALP(IU/l)	.00042	.0001591	2.64	0.008	.0001082	.0007318
赤血球	-.0008077	.0003795	-2.13	0.033	-.0015516	-.0000638
ヘモグロビン	.0153796	.0120717	1.27	0.203	-.0082821	.0390412
ヘマトクリ	-.030875	.0044468	-6.94	0.000	-.0395912	-.0221588
_cons	8.988426	.2683041	33.50	0.000	8.462527	9.514325

表 3-4B

```
. reg logp4 k_11 bmi k_20 k_21 k_24 k_25 k_43 k_58 k_59 k_60 k_64 k_65 k_71 k_7
> 2 k_74 m_18 m_27 m_28 m_29 m_31 m_64 m_65 m_66
```

Source	SS	df	MS	Number of obs = 11833	
			F(23, 11809) = 41.14		
Model	1494.78827	23	64.9907943	Prob > F	= 0.0000
Residual	18656.0158	11809	1.57981335	R-squared	= 0.0742
			Adj R-squared = 0.0724		
Total	20150.8041	11832	1.70307675	Root MSE	= 1.2569

logp4	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
身長	-.0115793	.0017314	-6.69	0.000	-.0149732	-.0081855
bmi	78.54735	48.50321	1.62	0.105	-16.52693	173.6216
聴力1右	.0735277	.0638582	1.15	0.250	-.0516449	.1987003
聴力1左	.033361	.0621247	0.54	0.591	-.0884137	.1551357
聴力4右	.0542221	.0494623	1.10	0.273	-.0427321	.1511762
聴力4左	.0694024	.0481285	1.44	0.149	-.0249373	.1637421
血圧高	.0106246	.0007532	14.11	0.000	.0091483	.0121009
総コレステ	.0004905	.0003286	1.49	0.136	-.0001536	.0011345
中性脂肪	.0001763	.0001359	1.30	0.195	-.0000901	.0004427
HDL コレステ	-.0007069	.0009543	-.074	0.459	-.0025775	.0011636
クレアチニン	.2191474	.0529386	4.14	0.000	.115379	.3229158
尿酸	.021356	.009096	2.35	0.019	.0035263	.0391857
尿糖 (定性)	.1948044	.0318924	6.11	0.000	.1322901	.2573187
尿蛋白	.1355481	.0251996	5.38	0.000	.0861526	.1849435
尿潜血	.0481261	.0147608	3.26	0.001	.0191924	.0770598
GTT 血糖 (前)	.0058137	.0007065	8.23	0.000	.0044289	.0071985
GOT	.0074815	.0017718	4.22	0.000	.0040085	.0109545
GPT	-.000806	.0011255	-0.72	0.474	-.0030122	.0014003
γGTP	-.0008811	.0003105	-2.84	0.005	-.0014897	-.0002725
ALP(IU/l)	.0001225	.0002025	0.61	0.545	-.0002743	.0005194
赤血球	-.0010774	.0004923	-2.19	0.029	-.0020423	-.0001124
ヘモグロビン	-.0065126	.0141428	-0.46	0.645	-.0342348	.0212096
ヘマトクリ	-.017767	.0054801	-3.24	0.001	-.0285088	-.0070251
_cons	8.941962	.3469582	25.77	0.000	8.261866	9.622057

表 3-5B

```
. reg logp5 k_11 bmi k_20 k_21 k_24 k_25 k_43 k_58 k_59 k_60 k_64 k_65 k_71 k_7
> 2 k_74 m_18 m_27 m_28 m_29 m_31 m_64 m_65 m_66
```

Source	SS	df	MS	Number of obs = 5407	
			F(23, 5383) = 19.66		
Model	699.504761	23	30.4132505	Prob > F	= 0.0000
Residual	8326.32974	5383	1.54678242	R-squared	= 0.0775
			Adj R-squared = 0.0736		
Total	9025.8345	5406	1.66959573	Root MSE	= 1.2437

logp5	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
k_11	-.0138987	.0025556	-5.44	0.000	-.0189088	-.0088887
bmi	102.3842	70.70861	1.45	0.148	-36.23329	241.0017
k_20	.2093503	.09293	2.25	0.024	.0271699	.3915306
k_21	-.1679965	.0895202	-1.88	0.061	-.3434923	.0074994
k_24	-.0512736	.072654	-0.71	0.480	-.1937048	.0911576
k_25	.1385905	.0706594	1.96	0.050	.0000695	.2771116
k_43	.0094512	.001111	8.51	0.000	.0072732	.0116293
k_58	.0005475	.0004161	1.32	0.188	-.0002683	.0013633
k_59	.0000277	.000197	0.14	0.888	-.0003586	.000414
k_60	-.0011569	.0013742	-0.84	0.400	-.003851	.0015371
k_64	.2349473	.080142	2.93	0.003	.0778366	.392058
k_65	.0414641	.0139761	2.97	0.003	.0140652	.068863
k_71	.1892765	.0495566	3.82	0.000	.0921256	.2864274
k_72	.1442012	.0362219	3.98	0.000	.0731915	.2152108
k_74	.066186	.0220459	3.00	0.003	.0229671	.1094049
m_18	.0058869	.0010098	5.83	0.000	.0039073	.0078666
m_27	.0058009	.0023712	2.45	0.014	.0011523	.0104495
m_28	-.0012426	.0015255	-0.81	0.415	-.0042332	.0017479
m_29	-.0005084	.0004641	-1.10	0.273	-.0014182	.0004015
m_31	.0008593	.000301	2.86	0.004	.0002693	.0014493
m_64	-.0012485	.0007188	-1.74	0.082	-.0026576	.0001606
m_65	.0042251	.0180142	0.23	0.815	-.0310901	.0395402
m_66	-.0182889	.0075234	-2.43	0.015	-.0330379	-.00354
_cons	9.293654	.5058238	18.37	0.000	8.302035	10.28527

表 4-1A

```
. reg logp1 logsx16 k_11 k_12 k_20 k_21 k_24 k_25 k_43 k_44 k_58 k_59 k_60 k_6
> 3 k_64 k_65 k_71 k_72 k_74 m_18 m_27 m_28 m_29 m_31 m_34 m_37 m_46 m_64
m_6
> 5 m_66 m_73
```

Source	SS	df	MS	Number of obs = 20846	
			F(30, 20815) = 74.89		
Model	1920.43175	30	64.0143918	Prob > F	= 0.0000
Residual	17791.5988	20815	.854748923	R-squared	= 0.0974
			Adj R-squared = 0.0961		
Total	19712.0306	20845	.945647905	Root MSE	= .92453

logp1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
logsx16	.2050484	.0067537	30.36	0.000	.1918107	.2182861
身長	-.0027075	.0011998	-2.26	0.024	-.0050591	-.0003558
体重	-.0022354	.000927	-2.41	0.016	-.0040525	-.0004183
聴力1右	-.0413339	.0470722	-0.88	0.380	-.133599	.0509312
聴力1左	.0103975	.0476273	0.22	0.827	-.0829558	.1037508
聴力4右	.0204341	.0238043	0.86	0.391	-.0262242	.0670924
聴力4左	.0789538	.0235343	3.35	0.001	.0328248	.1250828
血圧高	.0037434	.0006197	6.04	0.000	.0025287	.0049581
血圧低	.0029608	.0009172	3.23	0.001	.0011631	.0047585
総コレステ	.0004007	.0002084	1.92	0.055	-7.77e-06	.0008092
中性脂肪	-.0000481	.0000795	-0.61	0.545	-.000204	.0001078
HDL コレステ	-.0020008	.0005312	-3.77	0.000	-.0030421	-.0009596
尿素窒素	.0061002	.0017343	3.52	0.000	.0027008	.0094996
クレアチニン	.2299705	.0233267	9.86	0.000	.1842484	.2756926
尿酸	-.0090781	.0054441	-1.67	0.095	-.0197489	.0015928
尿糖定性	.0168311	.0152642	1.10	0.270	-.013088	.0467502
尿蛋白定性	.0434762	.0128983	3.37	0.001	.0181945	.0687578
尿潜血	-.0133709	.0094532	-1.41	0.157	-.0319	.0051581
GTT 血糖(前)	.0020162	.0003441	5.86	0.000	.0013418	.0026906
GOT	.0018675	.0007336	2.55	0.011	.0004296	.0033055
GPT	-.0002635	.0004972	-0.53	0.596	-.001238	.000711
γGTP	.0003674	.0001473	2.49	0.013	.0000787	.0006562
ALP(IU/l)	.0004073	.0001115	3.65	0.000	.0001887	.0006258
総ビルビリ	-.0507587	.0211929	-2.40	0.017	-.0922985	-.009219
総蛋白	-.0306121	.0164835	-1.86	0.063	-.0629211	.0016969
血清アミラ	-.000504	.0002085	-2.42	0.016	-.0009126	-.0000954
赤血球	-.0004367	.0002668	-1.64	0.102	-.0009598	.0000863
ヘモグロビン	.0211861	.0112262	1.89	0.059	-.000818	.0431902
ヘマトクリ	-.0108447	.0039774	-2.73	0.006	-.0186407	-.0030487
白血球	.0000109	3.98e-06	2.73	0.006	3.06e-06	.0000186
_cons	5.529877	.2351884	23.51	0.000	5.068889	5.990865

表 4-2A

```

. reg logp2 logp1 k_11 k_12 k_20 k_21 k_24 k_25 k_43 k_44 k_58 k_59 k_60 k_63
> k_64 k_65 k_71 k_72 k_74 m_18 m_27 m_28 m_29 m_31 m_34 m_37 m_46 m_64
m_65
> m_66 m_73

```

Source	SS	df	MS	Number of obs =	16622
			F(30, 16591) =	64.23	
Model	1641.97822	30	54.7326073	Prob > F	= 0.0000
Residual	14138.1229	16591	.852156163	R-squared	= 0.1041
			Adj R-squared =	0.1024	
Total	15780.1011	16621	.949407443	Root MSE	= .92312

	logp2	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
	logp1	.2119855	.0075827	27.96	0.000	.1971226	.2268483
身長		-.0025435	.0013461	-1.89	0.059	-.0051821	.0000951
体重		-.0017949	.0010421	-1.72	0.085	-.0038375	.0002476
聴力 1 右		-.0598714	.0524545	-1.14	0.254	-.1626879	.0429451
聴力 1 左		-.041615	.0525222	-0.79	0.428	-.1445642	.0613341
聴力 4 右		.0111	.0267284	0.42	0.678	-.0412904	.0634904
聴力 4 左		.0654929	.0267329	2.45	0.014	.0130936	.1178921
血圧高		.0021749	.0006859	3.17	0.002	.0008305	.0035193
血圧低		.0055738	.001014	5.50	0.000	.0035863	.0075612
総コレステ		.0006408	.000232	2.76	0.006	.0001861	.0010956
中性脂肪		.000088	.000088	1.00	0.318	-.0000846	.0002605
HDL コレステ		-.0012749	.0005941	-2.15	0.032	-.0024393	-.0001105
尿素窒素		.0067756	.0019279	3.51	0.000	.0029966	.0105546
クレアチニン		.2129336	.0266135	8.00	0.000	.1607682	.265099
尿酸		-.0069784	.0061364	-1.14	0.255	-.0190065	.0050496
尿糖定性		-.0113681	.0164316	-0.69	0.489	-.0435758	.0208396
尿蛋白定性		.0450639	.0141791	3.18	0.001	.0172714	.0728564
尿潜血		-.0215237	.0102854	-2.09	0.036	-.0416841	-.0013632
GTT 血糖(前)		.0028844	.0003801	7.59	0.000	.0021394	.0036294
GOT		.0018677	.0009105	2.05	0.040	.0000831	.0036523
GPT		-.000863	.0005896	-1.46	0.143	-.0020186	.0002926
γGTP		.0001315	.0001767	0.74	0.457	-.0002149	.0004779
ALP(IU/l)		.0006141	.0001384	4.44	0.000	.0003428	.0008855
総ビルビリ		-.0396845	.0242226	-1.64	0.101	-.0871633	.0077943
総蛋白		-.0777725	.0187596	-4.15	0.000	-.1145434	-.0410016
血清アミラ		-.0003667	.0002317	-1.58	0.114	-.0008208	.0000874
赤血球		-.0003053	.0003009	-1.01	0.310	-.000895	.0002845
ヘモグロビン		.0152066	.0144877	1.05	0.294	-.0131909	.0436041
ヘマトクリ		-.0110278	.0050038	-2.20	0.028	-.0208359	-.0012198
白血球		.0000137	4.49e-06	3.04	0.002	4.86e-06	.0000224
_cons		5.705488	.2631934	21.68	0.000	5.189601	6.221375

表 4-3A

```

. reg logp3 logp2 k_11 k_12 k_20 k_21 k_24 k_25 k_43 k_44 k_58 k_59 k_60 k_63
> k_64 k_65 k_71 k_72 k_74 m_18 m_27 m_28 m_29 m_31 m_34 m_37 m_46 m_64
m_65
> m_66 m_73

```

Source	SS	df	MS	Number of obs =	11871
-----+-----			F(30, 11840) =	43.88	
Model	1126.28183	30	37.5427276	Prob > F	= 0.0000
Residual	10131.0558	11840	.855663496	R-squared	= 0.1000
-----+-----			Adj R-squared =	0.0978	
Total	11257.3376	11870	.948385646	Root MSE	= .92502

logp3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
logp2	.2203921	.0090316	24.40	0.000	.2026887	.2380956
身長	-.0017765	.0015946	-1.11	0.265	-.0049021	.0013491
体重	-.0028458	.0012373	-2.30	0.021	-.0052711	-.0004205
聴力 1 右	-.0446212	.0644302	-0.69	0.489	-.170915	.0816726
聴力 1 左	-.0169618	.0648466	-0.26	0.794	-.1440718	.1101482
聴力 4 右	.0209947	.0321884	0.65	0.514	-.0420998	.0840893
聴力 4 左	.041437	.0321824	1.29	0.198	-.0216458	.1045199
血圧高	.0012576	.0008138	1.55	0.122	-.0003376	.0028529
血圧低	.0059402	.0011958	4.97	0.000	.0035963	.0082841
総コレステ	.0011673	.0002767	4.22	0.000	.000625	.0017096
中性脂肪	-.0000402	.0001082	-0.37	0.710	-.0002523	.0001719
HDL コレステ	-.0022952	.0007235	-3.17	0.002	-.0037134	-.000877
尿素窒素	.0047647	.002246	2.12	0.034	.0003622	.0091672
クレアチニン	.1851282	.0308424	6.00	0.000	.1246721	.2455844
尿酸	.0008044	.0072764	0.11	0.912	-.0134586	.0150674
尿糖定性	.0265757	.0195549	1.36	0.174	-.011755	.0649065
尿蛋白定性	.0591412	.016868	3.51	0.000	.026077	.0922053
尿潜血	-.0010431	.0124193	-0.08	0.933	-.025387	.0233009
GTT 血糖(前)	.0020249	.0004458	4.54	0.000	.001151	.0028989
GOT	.0013299	.0011939	1.11	0.265	-.0010104	.0036702
GPT	-.0004336	.0007055	-0.61	0.539	-.0018165	.0009493
γGTP	.0001601	.0002233	0.72	0.473	-.0002775	.0005978
ALP(IU/l)	.0002194	.0001842	1.19	0.234	-.0001417	.0005805
総ビルビリ	-.0017859	.0289879	-0.06	0.951	-.0586069	.055035
総蛋白	-.0791584	.0223863	-3.54	0.000	-.1230393	-.0352775
血清アミラ	-.0006073	.0002685	-2.26	0.024	-.0011336	-.0000809
赤血球	-.0001314	.0003595	-0.37	0.715	-.0008361	.0005733
ヘモグロビン	.0041752	.0179264	0.23	0.816	-.0309636	.039314
ヘマトクリ	-.0041059	.0062657	-0.66	0.512	-.0163877	.0081759
白血球	6.38e-06	5.33e-06	1.20	0.231	-4.06e-06	.0000168
_cons	5.528298	.3121004	17.71	0.000	4.91653	6.140066

表 4-4A

```
. reg logp4 logp3 k_11 k_12 k_20 k_21 k_24 k_25 k_43 k_44 k_58 k_59 k_60 k_63
> k_64 k_65 k_71 k_72 k_74 m_18 m_27 m_28 m_29 m_31 m_34 m_37 m_46 m_64
m_65
> m_66 m_73
```

Source	SS	df	MS	Number of obs = 7173	
			F(30, 7142) = 28.41		
Model	690.050999	30	23.0017	Prob > F	= 0.0000
Residual	5781.82234	7142	.809552274	R-squared	= 0.1066
			Adj R-squared = 0.1029		
Total	6471.87334	7172	.902380555	Root MSE	= .89975

	logp4	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
	logp3	.2291879	.0112532	20.37	0.000	.2071282	.2512476
身長		-.0021647	.0019867	-1.09	0.276	-.0060593	.0017299
体重		-.0019835	.0015556	-1.28	0.202	-.0050329	.0010659
聴力 1 右		-.0738038	.0854316	-0.86	0.388	-.241275	.0936675
聴力 1 左		.0774869	.0886682	0.87	0.382	-.096329	.2513029
聴力 4 右		-.0021518	.0413627	-0.05	0.959	-.083235	.0789313
聴力 4 左		.0580317	.0414141	1.40	0.161	-.0231522	.1392156
血压高		.0004827	.001018	0.47	0.635	-.0015128	.0024783
血压低		.0060666	.0015055	4.03	0.000	.0031155	.0090178
総コレステ		.0011183	.00035	3.20	0.001	.0004323	.0018044
中性脂肪		.0001364	.0001429	0.95	0.340	-.0001437	.0004165
HDL コレステ		-.0014819	.0009384	-1.58	0.114	-.0033215	.0003577
尿素窒素		.0046075	.002743	1.68	0.093	-.0007696	.0099846
クレアチニン		.193091	.0407334	4.74	0.000	.1132414	.2729407
尿酸		.0042286	.0091737	0.46	0.645	-.0137545	.0222117
尿糖定性		.0224609	.0242831	0.92	0.355	-.0251412	.070063
尿蛋白定性		.0341838	.0214586	1.59	0.111	-.0078815	.0762491
尿潜血		-.012941	.0158363	-0.82	0.414	-.0439848	.0181027
GTT 血糖(前)		.0021528	.0005614	3.83	0.000	.0010523	.0032532
GOT		.005018	.0016241	3.09	0.002	.0018344	.0082016
GPT		-.0021724	.0009415	-2.31	0.021	-.004018	-.0003268
γGTP		-.0001164	.0002854	-0.41	0.683	-.000676	.0004431
ALP(IU/l)		.0001554	.0002341	0.66	0.507	-.0003035	.0006143
総ビルビリ		-.0103012	.0365709	-0.28	0.778	-.081991	.0613887
総蛋白		-.0762007	.0273125	-2.79	0.005	-.1297414	-.0226601
血清アミラ		-.0007812	.0003319	-2.35	0.019	-.0014318	-.0001307
赤血球		.0002899	.000447	0.65	0.517	-.0005864	.0011663
ヘモグロビン		.0285059	.022544	1.26	0.206	-.015687	.0726989
ヘマトクリ		-.0142026	.0080962	-1.75	0.079	-.0300737	.0016684
白血球		7.05e-06	6.59e-06	1.07	0.285	-.5.87e-06	.00002
_cons		5.34042	.3884541	13.75	0.000	4.578935	6.101905

表 4-5A

```
. reg logp5 logp4 k_11 k_12 k_20 k_21 k_24 k_25 k_43 k_44 k_58 k_59 k_60 k_63
> k_64 k_65 k_71 k_72 k_74 m_18 m_27 m_28 m_29 m_31 m_34 m_37 m_46 m_64
m_65
> m_66 m_73
```

Source	SS	df	MS	Number of obs =	3549
-----+-----					
				F(30, 3518) =	13.83
Model	320.728975	30	10.6909658	Prob > F	= 0.0000
Residual	2719.44362	3518	.773008418	R-squared	= 0.1055
-----+-----					
				Adj R-squared =	0.0979
Total	3040.17259	3548	.856869389	Root MSE	= .87921

logp5	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
logp4	.2236534	.015948	14.02	0.000	.1923852	.2549216
身長	-.0019727	.0027553	-0.72	0.474	-.0073748	.0034294
体重	-.0009476	.002133	-0.44	0.657	-.0051297	.0032344
聴力 1 右	.0144316	.1185204	0.12	0.903	-.2179441	.2468072
聴力 1 左	-.0451214	.1338605	-0.34	0.736	-.3075735	.2173307
聴力 4 右	.0718634	.0585918	1.23	0.220	-.043014	.1867407
聴力 4 左	.0259255	.0574443	0.45	0.652	-.086702	.138553
血压高	.0025547	.0014088	1.81	0.070	-.0002074	.0053168
血压低	.001021	.002084	0.49	0.624	-.003065	.005107
総コレステ	.0007664	.0004918	1.56	0.119	-.0001978	.0017306
中性脂肪	.000278	.0001846	1.51	0.132	-.0000839	.0006399
HDL コレステ	-.0016088	.0013077	-1.23	0.219	-.0041727	.0009551
尿素窒素	.0012932	.004338	0.30	0.766	-.007212	.0097984
クレアチニン	.1273434	.0640811	1.99	0.047	.0017035	.2529833
尿酸	.0154507	.0130099	1.19	0.235	-.010057	.0409585
尿糖定性	.041776	.0338015	1.24	0.217	-.0244965	.1080486
尿蛋白定性	.0673474	.0315279	2.14	0.033	.0055326	.1291622
尿潜血	.008035	.0228571	0.35	0.725	-.0367795	.0528495
GTT 血糖(前)	.002304	.0008322	2.77	0.006	.0006724	.0039355
GOT	.0065749	.0023552	2.79	0.005	.0019571	.0111927
GPT	-.0017466	.0013641	-1.28	0.200	-.0044211	.0009279
γGTP	.0001448	.0004771	0.30	0.762	-.0007906	.0010801
ALP(IU/l)	.0000761	.0003189	0.24	0.811	-.0005492	.0007014
総ビルビリ	-.0458092	.0484677	-0.95	0.345	-.1408368	.0492184
総蛋白	-.0957205	.0385686	-2.48	0.013	-.1713397	-.0201013
血清アミラ	-.000574	.0004449	-1.29	0.197	-.0014463	.0002983
赤血球	.0006335	.0006525	0.97	0.332	-.0006459	.0019128
ヘモグロビン	-.0358726	.0325134	-1.10	0.270	-.0996197	.0278744
ヘマトクリ	.0022437	.0118409	0.19	0.850	-.020972	.0254594
白血球	-4.59e-06	9.04e-06	-0.51	0.612	-.0000223	.0000131
_cons	5.673187	.5441617	10.43	0.000	4.606283	6.740092

表 4-1B

```
. reg logp1 logsx16 k_11 bmi k_20 k_21 k_24 k_25 k_43 k_58 k_59 k_60 k_64 k_65 k
> _71 k_72 k_74 m_18 m_27 m_28 m_29 m_31 m_64 m_65 m_66
```

Source	SS	df	MS	Number of obs = 33618	
			F(24, 33593) = 457.93		
Model	13464.7549	24	561.031454	Prob > F	= 0.0000
Residual	41156.2264	33593	1.22514293	R-squared	= 0.2465
			Adj R-squared = 0.2460		
Total	54620.9813	33617	1.62480237	Root MSE	= 1.1069

logp1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
logsx16	.4500749	.0049996	90.02	0.000	.4402754	.4598744
身長	-.0052571	.0008926	-5.89	0.000	-.0070067	-.0035075
bmi	73.10341	24.6227	2.97	0.003	24.84206	121.3648
聴力1右	.0543459	.0328764	1.65	0.098	-.010093	.1187847
聴力1左	.0260474	.0329801	0.79	0.430	-.0385947	.0906894
聴力4右	.0696208	.025467	2.73	0.006	.0197046	.119537
聴力4左	.0784433	.0251133	3.12	0.002	.0292204	.1276662
血圧高	.0049722	.0003863	12.87	0.000	.0042151	.0057293
総コレステ	-.0002541	.000186	-1.37	0.172	-.0006187	.0001106
中性脂肪	.0000448	.0000657	0.68	0.495	-.0000839	.0001736
HDL コレステ	.0002437	.0004454	0.55	0.584	-.0006293	.0011167
クレアチニン	.1714039	.0241088	7.11	0.000	.1241498	.218658
尿酸	.0120841	.0048767	2.48	0.013	.0025257	.0216426
尿糖 (定性)	.0746152	.015535	4.80	0.000	.044166	.1050643
尿蛋白	.065724	.0126021	5.22	0.000	.0410235	.0904245
尿潜血	.0070572	.0076905	0.92	0.359	-.0080164	.0221307
GTT 血糖 (前)	.0033998	.00037	9.19	0.000	.0026746	.0041251
GOT	.0039135	.0008531	4.59	0.000	.0022414	.0055856
GPT	-.0014416	.0005757	-2.50	0.012	-.00257	-.0003132
γGTP	-.0001475	.0001473	-1.00	0.317	-.0004361	.0001412
ALP(IU/l)	.000142	.0001017	1.40	0.163	-.0000573	.0003414
赤血球	-.0003801	.000253	-1.50	0.133	-.0008761	.0001159
ヘモグロビン	.007286	.0087613	0.83	0.406	-.0098864	.0244584
ヘマトクリ	-.0150996	.0031002	-4.87	0.000	-.0211761	-.009023
_cons	4.707584	.1816512	25.92	0.000	4.351541	5.063626

表 4-2B

```
. reg logp2 logp1 k_11 bmi k_20 k_21 k_24 k_25 k_43 k_58 k_59 k_60 k_64 k_65 k_7
> 1 k_72 k_74 m_18 m_27 m_28 m_29 m_31 m_64 m_65 m_66
```

Source	SS	df	MS	Number of obs = 25323	
			F(24, 25298) = 376.93		
Model	10885.6763	24	453.569846	Prob > F	= 0.0000
Residual	30441.6718	25298	1.20332326	R-squared	= 0.2634
			Adj R-squared = 0.2627		
Total	41327.3481	25322	1.63207283	Root MSE	= 1.097

	logp2	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
logp1		.4579794	.0056305	81.34	0.000	.4469433	.4690156
身長		-.006581	.0010223	-6.44	0.000	-.0085847	-.0045772
bmi		30.70821	28.32617	1.08	0.278	-24.81273	86.22914
聴力1右		.0603488	.0375687	1.61	0.108	-.0132879	.1339855
聴力1左		.026618	.0371171	0.72	0.473	-.0461336	.0993696
聴力4右		.0155319	.0290552	0.53	0.593	-.041418	.0724818
聴力4左		.119517	.028464	4.20	0.000	.063726	.1753081
血圧高		.0052967	.0004403	12.03	0.000	.0044337	.0061597
総コレステ		.0000894	.0002082	0.43	0.668	-.0003187	.0004975
中性脂肪		-.0000244	.0000726	-0.34	0.737	-.0001667	.0001179
HDL コレステ		-.0008969	.0005234	-1.71	0.087	-.0019228	.000129
クレアチニン		.1504639	.0296424	5.08	0.000	.092363	.2085648
尿酸		.0163248	.0055098	2.96	0.003	.0055253	.0271243
尿糖 (定性)		.0817083	.0180427	4.53	0.000	.0463436	.117073
尿蛋白		.0792814	.0145301	5.46	0.000	.0508015	.1077612
尿潜血		.010849	.0086305	1.26	0.209	-.0060672	.0277653
GTT 血糖 (前)		.0032292	.0004139	7.80	0.000	.0024179	.0040406
GOT		.0035863	.0010083	3.56	0.000	.0016099	.0055627
GPT		-.0009031	.0006511	-1.39	0.165	-.0021792	.000373
γGTP		-.0000105	.0001715	-0.06	0.951	-.0003467	.0003256
ALP(IU/l)		.0002713	.0001183	2.29	0.022	.0000394	.0005032
赤血球		-.0005226	.0002903	-1.80	0.072	-.0010917	.0000464
ヘモグロビン		.0063909	.0095536	0.67	0.504	-.0123347	.0251166
ヘマトクリ		-.015057	.0034878	-4.32	0.000	-.0218932	-.0082207
_cons		5.005837	.2081787	24.05	0.000	4.597794	5.413879

表 4-3B

```
. reg logp3 logp2 k_11 bmi k_20 k_21 k_24 k_25 k_43 k_58 k_59 k_60 k_64 k_65 k_7
> 1 k_72 k_74 m_18 m_27 m_28 m_29 m_31 m_64 m_65 m_66
```

Source	SS	df	MS	Number of obs = 17507	
-----+			F(24, 17482) = 311.98		
Model	8696.42315	24	362.350964	Prob > F	= 0.0000
Residual	20304.6747	17482	1.16146177	R-squared	= 0.2999
-----+			Adj R-squared = 0.2989		
Total	29001.0979	17506	1.6566376	Root MSE	= 1.0777

logp3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+						
logp2	.4997009	.006701	74.57	0.000	.4865664	.5128355
身長	-.0051253	.0012144	-4.22	0.000	-.0075057	-.0027449
bmi	41.58778	33.64426	1.24	0.216	-24.35832	107.5339
聴力1右	.0944603	.0453707	2.08	0.037	.0055291	.1833914
聴力1左	-.0356342	.0435024	-0.82	0.413	-.1209032	.0496348
聴力4右	-.0056354	.0342883	-0.16	0.869	-.0728438	.0615731
聴力4左	.0792917	.0336475	2.36	0.018	.0133392	.1452441
血圧高	.0049653	.0005222	9.51	0.000	.0039418	.0059888
総コレステ	.0002833	.0002389	1.19	0.236	-.000185	.0007516
中性脂肪	-4.94e-06	.0000878	-0.06	0.955	-.000177	.0001671
HDL コレステ	-.0013462	.0006055	-2.22	0.026	-.0025332	-.0001593
クレアチニン	.1543252	.0356118	4.33	0.000	.0845226	.2241278
尿酸	.0218608	.0064909	3.37	0.001	.009138	.0345836
尿糖 (定性)	.0860551	.0212772	4.04	0.000	.0443496	.1277606
尿蛋白	.0687896	.0173747	3.96	0.000	.0347334	.1028458
尿潜血	.0201889	.0101693	1.99	0.047	.000256	.0401218
GTT 血糖 (前)	.0028959	.0004826	6.00	0.000	.0019501	.0038418
GOT	.0038788	.0012062	3.22	0.001	.0015145	.006243
GPT	-.0012196	.0008012	-1.52	0.128	-.00279	.0003508
γGTP	.0001054	.000203	0.52	0.603	-.0002925	.0005033
ALP(IU/l)	.0001805	.0001427	1.26	0.206	-.0000993	.0004602
赤血球	-.000197	.0003416	-0.58	0.564	-.0008665	.0004725
ヘモグロビン	.0064943	.0106148	0.61	0.541	-.0143117	.0273004
ヘマトクリ	-.0176146	.0039523	-4.46	0.000	-.0253615	-.0098678
_cons	4.450243	.2474299	17.99	0.000	3.965256	4.93523

表 4-4B

```
. reg logp4 logp3 k_11 bmi k_20 k_21 k_24 k_25 k_43 k_58 k_59 k_60 k_64 k_65 k_7
> 1 k_72 k_74 m_18 m_27 m_28 m_29 m_31 m_64 m_65 m_66
```

Source	SS	df	MS	Number of obs = 10702	
			F(24, 10677) = 198.52		
Model	5417.20055	24	225.716689	Prob > F	= 0.0000
Residual	12139.5244	10677	1.13697896	R-squared	= 0.3086
			Adj R-squared = 0.3070		
Total	17556.7249	10701	1.64066208	Root MSE	= 1.0663

logp4	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
logp3	.5040346	.0084353	59.75	0.000	.4874997	.5205694
身長	-.0061589	.001541	-4.00	0.000	-.0091796	-.0031381
bmi	48.57862	43.09869	1.13	0.260	-35.90282	133.0601
聴力1右	.023394	.0570564	0.41	0.682	-.0884471	.1352351
聴力1左	.0388053	.0556096	0.70	0.485	-.0701999	.1478105
聴力4右	.011137	.0437839	0.26	0.795	-.0744545	.0971945
聴力4左	.0187377	.0425562	0.44	0.660	-.0646803	.1021557
血圧高	.0049865	.0006699	7.44	0.000	.0036733	.0062997
総コレステ	.0002257	.0002889	0.78	0.435	-.0003406	.0007919
中性脂肪	.0001776	.0001194	1.49	0.137	-.0000565	.0004117
HDL コレステ	.000421	.0008489	0.50	0.620	-.0012431	.002085
クレアチニン	.0971831	.0459864	2.11	0.035	.0070412	.187325
尿酸	.0037362	.0080252	0.47	0.642	-.0119946	.019467
尿糖 (定性)	.0785945	.0276382	2.84	0.004	.0244184	.1327705
尿蛋白	.0754839	.0220643	3.42	0.001	.0322338	.1187341
尿潜血	.0168026	.0129986	1.29	0.196	-.008677	.0422823
GTT 血糖 (前)	.0033309	.0006191	5.38	0.000	.0021173	.0045444
GOT	.0025848	.0015946	1.62	0.105	-.000541	.0057106
GPT	.0005545	.0010073	0.55	0.582	-.0014199	.002529
γGTP	-.0002787	.000275	-1.01	0.311	-.0008178	.0002604
ALP(IU/l)	-.0000517	.0001792	-0.29	0.773	-.000403	.0002996
赤血球	-.0003271	.0004378	-0.75	0.455	-.0011853	.000531
ヘモグロビン	-.0170058	.0122585	-1.39	0.165	-.0410347	.0070231
ヘマトクリ	-.0045234	.0048144	-0.94	0.347	-.0139606	.0049138
_cons	4.49168	.3168114	14.18	0.000	3.87067	5.112689