

# Web-based Supplementary Materials for “Comparing trends in cancer rates across overlapping regions” by Y. Li and R. Tiwari

## Derivation of Equation (8)

To proceed, we assume that  $t_1 \leq t_{s+1} < t_m \leq t_{s+I}$  and note that

$$\begin{aligned} Cov(\hat{\beta}_{11}, \hat{\beta}_{21}) &= \frac{1}{\sigma_1^2 \sigma_2^2} Cov \left\{ \sum_{i=1}^m (t_i - \bar{t}_1) y_{1i}, \sum_{s+1}^{s+I} (t_i - \bar{t}_2) y_{2i} \right\} \\ &= \frac{1}{\sigma_1^2 \sigma_2^2} \sum_{s+1}^m (t_i - \bar{t}_1)(t_i - \bar{t}_2) Cov(y_{1i}, y_{2i}). \end{aligned} \quad (14)$$

Recall that we use superscript ‘O’ to denote the intersection of Regions 1 and 2 and ‘NO’ the non-overlapping subset. We further introduce the following notation. Let  $n_{kji}$ ,  $n_{kji}^{(O)}$  and  $n_{kji}^{(NO)}$  be the numbers of underlying population at risk for age group  $j$  at time  $t_i$  in Region  $k$  ( $k = 1, 2$ ), in the overlapping subregion and in the non-overlapping subregions, respectively. Similarly, define  $d_{kji}$ ,  $d_{kji}^{(O)}$  and  $d_{kji}^{(NO)}$  the corresponding numbers of events (e.g. deaths or cancer cases). Denote by  $n_{ki} = \sum_{j=1}^J n_{kji}$ ,  $n_{ki}^{(O)} = \sum_{j=1}^J n_{kji}^{(O)}$ ,  $n_{ki}^{(NO)} = \sum_{j=1}^J n_{kji}^{(NO)}$ . Also define  $d_{ki}$ ,  $d_{ki}^{(O)}$  and  $d_{ki}^{(NO)}$  in the similar fashion. In fact,  $d_{kji}^{(O)}$  and  $n_{kji}^{(O)}$  are independent of index  $k$  (for region) as they correspond to the same common subregion for  $k = 1, 2$ .

Let  $y_i^{(O)} = \log(r_i^{(O)}) = \log \left( \sum_{j=1}^J w_j \frac{d_{ji}^{(O)} + 1/J}{n_{ji}^{(O)}} \right)$  be the logarithm of the (zero corrected) age-adjusted rate  $r_i^{(O)}$  at time  $t_i$  for the overlapping region, and let  $y_{1i}^{(NO)}$  and  $y_{2i}^{(NO)}$  be defined similarly based on  $r_{1i}^{(NO)}$  and  $r_{2i}^{(NO)}$ , respectively, for the non-overlapping regions/intervals for the two groups.

Dropping the subscript  $i$  (for time), we assume the age groups have the same distribution across the overlapping and non-overlapping regions, that is,

$$\frac{n_{k1}^{(O)}}{n_{k1}} = \frac{n_{k2}^{(O)}}{n_{k2}} = \dots = \frac{n_{kJ}^{(O)}}{n_{kJ}} = p_k^{(O)}, \quad \text{and} \quad \frac{n_{k1}^{(NO)}}{n_{k1}} = \frac{n_{k2}^{(NO)}}{n_{k2}} = \dots = \frac{n_{kJ}^{(NO)}}{n_{kJ}} = p_k^{(NO)}, \quad (15)$$

for  $k=1,2$ . This assumption is common in comparing the age-adjusted rates across different geographical areas (see, e.g., Pickle and White, 1995), under which, we have

$$r_k = \sum_{j=1}^J w_j \frac{d_{kj}}{n_{kj}} = \sum_{j=1}^J w_j \frac{d_{kj}^{(O)} + d_{kj}^{(NO)}}{n_{kj}}$$

$$\begin{aligned}
&= \sum_{j=1}^J w_j \frac{n_{kj}^{(O)} d_{kj}^{(O)} + 1/J}{n_{kj}^{(O)}} + \sum_{j=1}^J w_j \frac{n_{kj}^{(NO)} d_{kj}^{(NO)} + 1/J}{n_{kj}^{(NO)}} + c_k \\
&= p_k^{(O)} r_k^{(O)} + p_k^{(NO)} r_k^{(NO)} + c_k,
\end{aligned}$$

where  $c_k = -\frac{1}{J} \sum_{j=1}^J \frac{w_j}{n_{kj}}$ , a negligible constant. Again, since  $r_1^{(O)} = r_2^{(O)}$ , let  $r^{(O)}$  denote this common value, and let  $y^{(O)} = \log(r^{(O)})$ . Now, since  $Cov(r_1^{(NO)}, r_2^{(NO)}) = 0$  and  $Cov(r^{(O)}, r_k^{(NO)}) = 0, k = 1, 2$ , using the delta method, we have,

$$\begin{aligned}
Cov(y_1, y_2) &= Cov(\log(r_1), \log(r_2)) \\
&\approx \frac{1}{E(r_1)E(r_2)} Cov(r_1, r_2) \\
&= \frac{1}{E(r_1)E(r_2)} p_1^{(O)} p_2^{(O)} Var(r^{(O)}) \\
&= \frac{1}{E(r_1)E(r_2)} p_1^{(O)} p_2^{(O)} Var(e^{y^{(O)}}).
\end{aligned}$$

Let  $y^{(O)}$  satisfy the regression model (3), and let  $\mu^{(O)} = E(y^{(O)})$ . Since  $y^{(O)} \sim N(\mu^{(O)}, \sigma^2)$ , using the properties of that log normal distribution, we have that

$$\begin{aligned}
E(r^{(O)}) &= E(e^{y^{(O)}}) = e^{\mu^{(O)}} e^{\sigma^2/2}, \\
Var(e^{y^{(O)}}) &= e^{2\mu^{(O)}} e^{\sigma^2} (e^{\sigma^2} - 1).
\end{aligned}$$

Furthermore, the null hypothesis implies that  $E(y_1) = E(y_2) = E(y^{(O)})$ . Hence, adding back the time index  $i$ , we will have

$$\begin{aligned}
Cov(y_{1i}, y_{2i}) &= (e^{\sigma^2} - 1) p_{1i}^{(O)} p_{2i}^{(O)} \\
&\approx \sigma^2 p_{1i}^{(O)} p_{2i}^{(O)},
\end{aligned}$$

when  $\sigma^2$  is small. For the US population,  $p_{1i}^{(O)}$  and  $p_{2i}^{(O)}$  were found to be constant over years (as confirmed by the SEER population data base). We then write  $p_{ki}^{(O)} \equiv p_k^{(O)}$  for  $i = s+1, \dots, m$ , an estimate of which is given by  $\hat{p}_k^{(O)} = \frac{n^{(O)}}{n_k}$ , where  $n_k = \sum_{i=s+1}^m \sum_{j=1}^J n_{kji}$  and  $n^{(O)} = \sum_{i=s+1}^m \sum_{j=1}^J n_{ji}^{(O)}$ . Hence,  $Cov(y_{1i}, y_{2i}) \approx \sigma^2 \frac{(n^{(O)})^2}{n_1 n_2}$  for  $i = s+1, \dots, m$ . Inserting it back to (14) yields (8).

## Tables for Data Analysis

Table A.1: Comparison of Changes in Age-adjusted cancer mortality rates between California (1990-2004) and the US (1988-2002) for males.  $APC_{us}$  and  $APC_{ca}$  are the annual percent changes for the US and California respectively.  $\sigma^2$  is the common (residual) variance in the Cancer Rate Regression Models (6) and (7).

sites	$APC_{us}$ (SE)	$APC_{ca}$ (SE)	$\sigma^2$	p-value (Z-test)	p-value (t-test)
1 All Malignant Cancers	-1.14529 ( 0.08562 )	-1.69304 ( 0.05924 )	0.01323	0.00000	0.00000
2 Oral Cavity and Pharynx	-2.54187 ( 0.14183 )	-2.36549 ( 0.30387 )	0.04262	0.61088	0.62439
3 Lip	-5.04715 ( 0.93868 )	-2.89026 ( 2.28470 )	0.31393	0.39824	0.41626
4 Tongue	-2.30819 ( 0.17872 )	-1.55945 ( 0.48771 )	0.06602	0.16317	0.17961
5 Salivary Gland	-1.21958 ( 0.39018 )	-2.69678 ( 0.88342 )	0.12274	0.13895	0.15445
6 Floor of Mouth	-8.74256 ( 0.54619 )	-4.60891 ( 1.60742 )	0.21577	0.01850	0.02341
7 Gum and Other Mouth	-3.59892 ( 0.31909 )	-4.57622 ( 0.45483 )	0.07062	0.08882	0.10152
8 Nasopharynx	-2.60014 ( 0.26453 )	-2.52804 ( 0.67281 )	0.09188	0.92313	0.92602
9 Tonsil	-1.62000 ( 0.39344 )	-0.51149 ( 0.97421 )	0.13354	0.30741	0.32600
10 Oropharynx	-1.02095 ( 0.33416 )	-0.57017 ( 0.97536 )	0.13104	0.67232	0.68399
11 Hypopharynx	-5.54162 ( 0.33743 )	-3.08101 ( 0.99334 )	0.13334	0.02327	0.02900
12 Other Oral Cavity and Pha	-1.57741 ( 0.31890 )	-2.39696 ( 0.72259 )	0.10039	0.31547	0.33405
13 Digestive System	-1.00699 ( 0.03420 )	-1.03053 ( 0.06669 )	0.00953	0.76122	0.76996
14 Esophagus	0.74199 ( 0.04981 )	0.03682 ( 0.26946 )	0.03483	0.01279	0.01659
15 Stomach	-3.18066 ( 0.14032 )	-2.74636 ( 0.15274 )	0.02636	0.04280	0.05126
16 Small Intestine	-0.71617 ( 0.35911 )	-2.28962 ( 0.82727 )	0.11462	0.09145	0.10433
17 Colon and Rectum	-1.98524 ( 0.04743 )	-2.30563 ( 0.10036 )	0.01411	0.00523	0.00721
18 Colon excluding Rectum	-2.18078 ( 0.05359 )	-2.36600 ( 0.11226 )	0.01581	0.14974	0.16569
19 Rectum and Rectosigmoid J	-0.88380 ( 0.07602 )	-2.00738 ( 0.31554 )	0.04125	0.00081	0.00127
20 Liver and Intrahepatic Bi	2.70060 ( 0.16143 )	2.85857 ( 0.19285 )	0.03196	0.54342	0.55871
21 Liver	2.31905 ( 0.13813 )	2.71266 ( 0.22187 )	0.03322	0.14513	0.16090
22 Intrahepatic Bile Duct	4.89523 ( 0.40718 )	3.73589 ( 0.51502 )	0.08344	0.08758	0.10019
23 Gallbladder	-2.10738 ( 0.22285 )	-1.53995 ( 0.48949 )	0.06836	0.30742	0.32600
24 Other Biliary	-3.39084 ( 0.23329 )	-3.65275 ( 0.53714 )	0.07443	0.66526	0.67715
25 Pancreas	-0.29431 ( 0.05214 )	-0.39426 ( 0.19401 )	0.02553	0.63031	0.64325
26 Retroperitoneum	-4.12158 ( 0.58644 )	-2.68420 ( 1.11387 )	0.15999	0.26932	0.28778
27 Peritoneum, Omentum and M	-0.90453 ( 0.66323 )	4.60791 ( 1.42707 )	0.20001	0.00070	0.00111
28 Other Digestive Organs	3.32072 ( 1.36339 )	3.54776 ( 2.10751 )	0.31902	0.93027	0.93289
29 Respiratory System	-1.60133 ( 0.08997 )	-2.54261 ( 0.08343 )	0.01559	0.00000	0.00000
30 Nose, Nasal Cavity and Mi	-2.45896 ( 0.36930 )	-3.71470 ( 1.15055 )	0.15358	0.31473	0.33332
31 Larynx	-1.89041 ( 0.15676 )	-2.21785 ( 0.41215 )	0.05604	0.47254	0.48938
32 Lung and Bronchus	-1.57318 ( 0.08800 )	-2.53538 ( 0.08350 )	0.01542	0.00000	0.00000
33 Pleura	-4.76359 ( 0.69374 )	-5.63373 ( 0.83073 )	0.13756	0.43671	0.45418
34 Trachea, Mediastinum and	-4.38175 ( 0.56495 )	-4.21490 ( 1.43052 )	0.19548	0.91642	0.91956
35 Bones and Joints	-0.63050 ( 0.22877 )	0.50710 ( 0.56841 )	0.07787	0.07247	0.08391
36 Soft Tissue including Hea	-0.19405 ( 0.32414 )	-1.86636 ( 0.56160 )	0.08241	0.01260	0.01635
37 Skin excluding Basal and	-0.20217 ( 0.08928 )	-0.92676 ( 0.29656 )	0.03936	0.02362	0.02940
38 Melanoma of the Skin	0.22384 ( 0.14864 )	-1.14511 ( 0.35312 )	0.04870	0.00055	0.00088
39 Other Non-Epithelial Skin	-1.28166 ( 0.33594 )	-0.34737 ( 0.61161 )	0.08869	0.19523	0.21260
40 Breast	0.67233 ( 0.44829 )	-0.35521 ( 1.08577 )	0.14930	0.39743	0.41545
41 Male Genital System	-2.17218 ( 0.34136 )	-3.35652 ( 0.22018 )	0.05163	0.00479	0.00664
42 Prostate	-2.18583 ( 0.34814 )	-3.40124 ( 0.21988 )	0.05233	0.00430	0.00600
43 Testis	-1.32447 ( 0.42559 )	-1.31581 ( 0.90241 )	0.12681	0.99330	0.99355
44 Penis	-1.45769 ( 0.29383 )	0.44102 ( 1.74277 )	0.22463	0.29867	0.31724
45 Urinary System	-0.15872 ( 0.06568 )	-0.46994 ( 0.10662 )	0.01592	0.01621	0.02069
46 Urinary Bladder	-0.39827 ( 0.07156 )	-0.66431 ( 0.19502 )	0.02640	0.21539	0.23318
47 Kidney and Renal Pelvis	0.09973 ( 0.10326 )	-0.20732 ( 0.16686 )	0.02494	0.13010	0.14520
48 Ureter	-1.81235 ( 0.36063 )	-3.05155 ( 1.85441 )	0.24011	0.52571	0.54142
49 Other Urinary Organs	4.67508 ( 1.32642 )	4.13840 ( 2.59886 )	0.37084	0.85877	0.86404
50 Eye and Orbit	-2.59686 ( 0.51488 )	2.06275 ( 1.37227 )	0.18629	0.00210	0.00308
51 Brain and Other Nervous S	-0.59408 ( 0.07447 )	-0.76199 ( 0.27160 )	0.03579	0.56409	0.57886
52 Endocrine System	0.46159 ( 0.22153 )	0.94815 ( 0.49324 )	0.06872	0.38402	0.40219
53 Thyroid	1.31809 ( 0.32622 )	2.55398 ( 0.66252 )	0.09386	0.10545	0.11923
54 Other Endocrine including	-0.51444 ( 0.26401 )	-0.90111 ( 0.73065 )	0.09874	0.63017	0.64311
55 Lymphoma	0.04612 ( 0.25417 )	-0.90577 ( 0.31011 )	0.05096	0.02164	0.02710
56 Hodgkin Lymphoma	-3.77024 ( 0.29593 )	-2.91687 ( 0.50752 )	0.07467	0.15996	0.17630
57 Non-Hodgkin Lymphoma	0.32123 ( 0.28472 )	-0.76903 ( 0.33308 )	0.05569	0.01608	0.02054
58 Myeloma	0.00492 ( 0.15560 )	-0.63384 ( 0.28698 )	0.04149	0.05837	0.06852
59 Leukemia	-0.41114 ( 0.07777 )	-1.16978 ( 0.18611 )	0.02564	0.00027	0.00046
60 Lymphocytic Leukemia	-0.80381 ( 0.18393 )	-1.43414 ( 0.38148 )	0.05383	0.14991	0.16587
61 Acute Lymphocytic Leukemi	-1.88621 ( 0.15635 )	-0.61542 ( 0.70555 )	0.09185	0.08891	0.10162
62 Chronic Lymphocytic Leuke	-0.22980 ( 0.25973 )	-1.58381 ( 0.39517 )	0.06010	0.00561	0.00769
63 Other Lymphocytic Leukemi	-3.11597 ( 0.26524 )	-2.84172 ( 1.08602 )	0.14209	0.81241	0.81935
64 Myeloid and Monocytic Leu	0.38178 ( 0.10812 )	-0.34155 ( 0.26334 )	0.03618	0.01397	0.01801
65 Acute Myeloid Leukemia	1.85239 ( 0.13780 )	1.27926 ( 0.25779 )	0.03715	0.05786	0.06795
66 Acute Monocytic Leukemia	-5.87966 ( 0.33270 )	-5.81060 ( 1.38431 )	0.18095	0.96258	0.96398
67 Chronic Myeloid Leukemia	-4.54161 ( 0.69213 )	-7.48499 ( 0.97162 )	0.15162	0.01699	0.02162
68 Other Myeloid/Monocytic L	3.25551 ( 1.82360 )	4.63431 ( 2.02953 )	0.34678	0.62494	0.63804
69 Other Leukemia	-1.26579 ( 0.15121 )	-2.35890 ( 0.35968 )	0.04959	0.00672	0.00910
70 Other Acute Leukemia	-2.69076 ( 0.21664 )	-4.26489 ( 0.44006 )	0.06234	0.00191	0.00281
71 Aleukemic, Subleukemic an	0.19461 ( 0.25052 )	-0.13660 ( 0.44085 )	0.06445	0.52745	0.54313
72 Miscellaneous Malignant C	-0.06793 ( 0.38400 )	-0.04692 ( 0.33004 )	0.06435	0.96798	0.96919

Table A.2: Comparison of Changes in Age-adjusted cancer mortality rates between California (1990-2004) and the US (1988-2002) for females.

sites	$APC_{us}$ (SE)	$APC_{ca}$ (SE)	$\sigma^2$	p-value (Z-test)	p-value (t-test)
1 All Malignant Cancers	-0.4967 ( 0.06367 )	-1.1995 ( 0.07756 )	0.01275	0.00000	0.00000
2 Oral Cavity and Pharynx	-2.3100 ( 0.09949 )	-2.6478 ( 0.32027 )	0.04262	0.33065	0.34845
3 Tongue	-1.7552 ( 0.20731 )	-1.9406 ( 0.56414 )	0.07639	0.76566	0.77390
4 Salivary Gland	-1.5547 ( 0.28108 )	-1.6580 ( 1.53080 )	0.19781	0.94885	0.95070
5 Floor of Mouth	-8.5738 ( 0.59746 )	-10.3092 ( 1.46769 )	0.20140	0.29016	0.30797
6 Gum and Other Mouth	-2.4059 ( 0.33005 )	-3.5480 ( 0.89911 )	0.12173	0.24941	0.26696
7 Nasopharynx	-1.8134 ( 0.28784 )	-1.7402 ( 1.07235 )	0.14112	0.94922	0.95105
8 Tonsil	-2.7779 ( 0.45408 )	-3.0276 ( 1.09826 )	0.15105	0.83921	0.84495
9 Oropharynx	-0.5663 ( 0.55131 )	-1.4113 ( 1.74661 )	0.23279	0.65585	0.66754
10 Hypopharynx	-5.0032 ( 0.69969 )	-2.0945 ( 2.10828 )	0.28233	0.20595	0.22284
11 Other Oral Cavity and Pha	-2.4089 ( 0.33467 )	-2.6857 ( 0.96831 )	0.13021	0.79414	0.80143
12 Digestive System	-0.9999 ( 0.03521 )	-1.0174 ( 0.08568 )	0.01177	0.85554	0.86071
13 Esophagus	-0.1298 ( 0.09611 )	-0.4936 ( 0.44040 )	0.05729	0.43558	0.45237
14 Stomach	-2.4744 ( 0.08503 )	-2.2361 ( 0.26341 )	0.03518	0.40560	0.42281
15 Small Intestine	-0.5498 ( 0.28495 )	-1.1258 ( 0.59587 )	0.08395	0.39957	0.41685
16 Colon and Rectum	-1.7837 ( 0.03854 )	-2.1068 ( 0.12624 )	0.01678	0.01804	0.02266
17 Colon excluding Rectum	-1.9450 ( 0.04393 )	-2.0724 ( 0.12469 )	0.01680	0.35203	0.36973
18 Rectum and Rectosigmoid J	-0.6662 ( 0.09959 )	-2.3023 ( 0.35657 )	0.04705	0.00002	0.00004
19 Anus, Anal Canal and Anor	0.9835 ( 0.36923 )	1.4404 ( 0.50560 )	0.07957	0.48091	0.49693
20 Liver and Intrahepatic Bi	2.1121 ( 0.22646 )	2.8416 ( 0.25130 )	0.04299	0.03727	0.04471
21 Liver	1.0356 ( 0.23798 )	2.2415 ( 0.30421 )	0.04909	0.00256	0.00366
22 Intrahepatic Bile Duct	5.3993 ( 0.32153 )	4.6627 ( 0.45037 )	0.07033	0.19849	0.21523
23 Gallbladder	-2.3486 ( 0.12983 )	-1.7201 ( 0.32906 )	0.04496	0.08616	0.09815
24 Other Biliary	-3.3533 ( 0.27122 )	-3.2242 ( 0.98554 )	0.12992	0.90295	0.90645
25 Pancreas	0.0459 ( 0.06003 )	-0.3244 ( 0.14192 )	0.01958	0.02029	0.02529
26 Retroperitoneum	-3.4767 ( 0.42605 )	-2.4084 ( 2.15884 )	0.27968	0.63910	0.65128
27 Peritoneum, Omentum and M	10.6773 ( 0.50603 )	11.5268 ( 1.02266 )	0.14502	0.47208	0.48827
28 Other Digestive Organs	2.9486 ( 1.25248 )	4.0027 ( 1.31273 )	0.23060	0.57471	0.58863
29 Respiratory System	1.1074 ( 0.14308 )	-0.8987 ( 0.13886 )	0.02534	0.00000	0.00000
30 Nose, Nasal Cavity and Mi	-2.7924 ( 0.50534 )	-1.6394 ( 0.87092 )	0.12798	0.26870	0.28641
31 Larynx	-0.9160 ( 0.31894 )	-3.1695 ( 0.99551 )	0.13286	0.03732	0.04476
32 Lung and Bronchus	1.1684 ( 0.14263 )	-0.8594 ( 0.13851 )	0.02527	0.00000	0.00000
33 Trachea, Mediastinum and	-4.1474 ( 0.51934 )	-3.7029 ( 1.76282 )	0.23357	0.81526	0.82183
34 Bones and Joints	-0.3413 ( 0.23101 )	-0.0312 ( 0.59852 )	0.08154	0.64064	0.65278
35 Soft Tissue including Hea	-0.3137 ( 0.50341 )	-2.3136 ( 0.59262 )	0.09883	0.01298	0.01665
36 Skin excluding Basal and	-0.6894 ( 0.10824 )	-1.7968 ( 0.25599 )	0.03532	0.00012	0.00021
37 Melanoma of the Skin	-0.6677 ( 0.13053 )	-2.2282 ( 0.27928 )	0.03918	0.00000	0.00000
38 Other Non-Epithelial Skin	-0.7827 ( 0.28864 )	0.1701 ( 0.86128 )	0.11545	0.31098	0.32882
39 Breast	-2.1080 ( 0.09911 )	-2.4052 ( 0.12810 )	0.02059	0.07627	0.08752
40 Female Genital System	-0.7757 ( 0.06950 )	-0.8266 ( 0.13887 )	0.01974	0.75116	0.75988
41 Cervix Uteri	-2.5485 ( 0.16808 )	-2.7864 ( 0.30711 )	0.04450	0.51164	0.52704
42 Corpus and Uterus, NOS	-0.3500 ( 0.08836 )	-0.4197 ( 0.22008 )	0.03014	0.77630	0.78419
43 Corpus Uteri	-0.9847 ( 0.10858 )	-1.6515 ( 0.29045 )	0.03941	0.03779	0.04529
44 Uterus, NOS	0.2709 ( 0.20775 )	0.6246 ( 0.30305 )	0.04670	0.35242	0.37012
45 Ovary	-0.4497 ( 0.10827 )	-0.3897 ( 0.19006 )	0.02780	0.79108	0.79847
46 Vagina	-1.4893 ( 0.30881 )	-0.0450 ( 1.12439 )	0.14820	0.23152	0.24885
47 Vulva	0.3715 ( 0.21886 )	-0.4401 ( 0.74207 )	0.09833	0.31091	0.32875
48 Other Female Genital Orga	1.0285 ( 0.89011 )	-2.8798 ( 1.05902 )	0.17583	0.00636	0.00854
49 Urinary System	-0.1898 ( 0.10186 )	-0.3737 ( 0.25074 )	0.03440	0.51161	0.52701
50 Urinary Bladder	-0.3297 ( 0.12862 )	-0.2421 ( 0.36919 )	0.04969	0.82869	0.83480
51 Kidney and Renal Pelvis	-0.0759 ( 0.17167 )	-0.5114 ( 0.23849 )	0.03735	0.15231	0.16770
52 Ureter	-1.1593 ( 0.53854 )	-0.4319 ( 1.29441 )	0.17819	0.61627	0.62909
53 Other Urinary Organs	0.97551 ( 0.98382 )	0.51241 ( 1.65580 )	0.24479	0.81634	0.82288
54 Eye and Orbit	-2.29495 ( 0.51385 )	-1.09212 ( 1.83285 )	0.24193	0.54163	0.55636
55 Brain and Other Nervous S	-0.60288 ( 0.15861 )	-0.78950 ( 0.24186 )	0.03676	0.53314	0.54807
56 Endocrine System	-0.03612 ( 0.17458 )	-0.82845 ( 0.57794 )	0.07673	0.20493	0.22180
57 Thyroid	0.19503 ( 0.22603 )	-0.11015 ( 0.52083 )	0.07216	0.60363	0.61680
58 Other Endocrine including	-0.40304 ( 0.20725 )	-2.21315 ( 0.99215 )	0.12882	0.08453	0.09640
59 Lymphoma	0.01028 ( 0.29109 )	-1.31900 ( 0.40750 )	0.06365	0.01035	0.01347
60 Hodgkin Lymphoma	-2.55202 ( 0.28254 )	-1.53544 ( 0.79565 )	0.10731	0.24484	0.26234
61 Non-Hodgkin Lymphoma	0.18531 ( 0.30940 )	-1.29605 ( 0.41882 )	0.06618	0.00600	0.00809
62 Myeloma	0.19767 ( 0.15648 )	-0.87526 ( 0.33092 )	0.04652	0.00464	0.00636
63 Leukemia	-0.47456 ( 0.09093 )	-1.19624 ( 0.15836 )	0.02321	0.00013	0.00023
64 Lymphocytic Leukemia	-0.71969 ( 0.22034 )	-1.55322 ( 0.35934 )	0.05357	0.05613	0.06563
65 Acute Lymphocytic Leukemi	-1.33321 ( 0.27870 )	-0.40742 ( 0.54511 )	0.07781	0.14412	0.15920
66 Chronic Lymphocytic Leuke	-0.11289 ( 0.28829 )	-1.78207 ( 0.46202 )	0.06922	0.00307	0.00433
67 Other Lymphocytic Leukemi	-4.18929 ( 0.22281 )	-5.55778 ( 1.60359 )	0.20577	0.41424	0.43134
68 Myeloid and Monocytic Leu	0.19180 ( 0.09133 )	-0.37999 ( 0.29947 )	0.03979	0.07772	0.08909
69 Acute Myeloid Leukemia	1.60735 ( 0.11928 )	1.22486 ( 0.30773 )	0.04195	0.26296	0.28063
70 Acute Monocytic Leukemia	-7.75354 ( 0.82563 )	-9.06558 ( 3.75654 )	0.48884	0.74178	0.75081
71 Chronic Myeloid Leukemia	-4.29532 ( 0.63553 )	-7.22987 ( 0.99391 )	0.14994	0.01628	0.02057
72 Other Myeloid/Monocytic L	1.78219 ( 1.33592 )	5.14116 ( 1.49323 )	0.25465	0.10538	0.11859
73 Other Leukemia	-1.37872 ( 0.11477 )	-2.39493 ( 0.25479 )	0.03552	0.00044	0.00071
74 Other Acute Leukemia	-3.25827 ( 0.25236 )	-4.90300 ( 0.39909 )	0.06001	0.00077	0.00118
75 Aleukemic, Subleukemic an	0.67118 ( 0.13108 )	0.46868 ( 0.40711 )	0.05436	0.64745	0.65939
76 Miscellaneous Malignant C	-0.11415 ( 0.29840 )	-0.54259 ( 0.28608 )	0.05254	0.31678	0.33461

Table B.1: Comparison of Changes in Age-adjusted cancer mortality rates between California (1990-2004) and the US (1980-1994) for males.  $APC_{us}$  and  $APC_{ca}$  are the annual percent changes for the US and California respectively.  $\sigma^2$  is the common (residual) variance in the Cancer Rate Regression Models (6) and (7).

sites	$APC_{us}$ (SE)	$APC_{ca}$ (SE)	$\sigma^2$	p-value (Z-test)	p-value (t-test)
1 All Malignant Cancers	0.13395 ( 0.05004 )	-1.69304 ( 0.05924 )	0.00986	0.00000	0.00000
2 Oral Cavity and Pharynx	-2.09739 ( 0.12845 )	-2.36549 ( 0.30387 )	0.04193	0.46045	0.44932
3 Lip	-6.33929 ( 0.87302 )	-2.89026 ( 2.28470 )	0.31086	0.20026	0.18925
4 Tongue	-2.22245 ( 0.15640 )	-1.55945 ( 0.48771 )	0.06510	0.23971	0.22816
5 Salivary Gland	-0.45950 ( 0.39389 )	-2.69678 ( 0.88342 )	0.12294	0.03566	0.03129
6 Floor of Mouth	-6.78522 ( 0.25603 )	-4.60891 ( 1.60742 )	0.20688	0.22460	0.21323
7 Gum and Other Mouth	-3.05074 ( 0.23408 )	-4.57622 ( 0.45483 )	0.06501	0.00676	0.00550
8 Nasopharynx	-1.06262 ( 0.31636 )	-2.52804 ( 0.67281 )	0.09449	0.07342	0.06652
9 Tonsil	-2.82023 ( 0.38469 )	-0.51149 ( 0.97421 )	0.13312	0.04528	0.04017
10 Oropharynx	0.19700 ( 0.37195 )	-0.57017 ( 0.97536 )	0.13267	0.50446	0.49387
11 Hypopharynx	-4.45059 ( 0.48011 )	-3.08101 ( 0.99334 )	0.14022	0.25954	0.24782
12 Other Oral Cavity and Pha	-0.22622 ( 0.32481 )	-2.39696 ( 0.72259 )	0.10069	0.01282	0.01075
13 Digestive System	-0.68619 ( 0.03274 )	-1.03053 ( 0.06669 )	0.00944	0.00003	0.00002
14 Esophagus	1.02825 ( 0.06092 )	0.03682 ( 0.26946 )	0.03511	0.00112	0.00083
15 Stomach	-2.03063 ( 0.11464 )	-2.74636 ( 0.15274 )	0.02427	0.00066	0.00048
16 Small Intestine	0.73969 ( 0.33065 )	-2.28962 ( 0.82727 )	0.11323	0.00201	0.00155
17 Colon and Rectum	-1.24173 ( 0.08356 )	-2.30563 ( 0.10036 )	0.01660	0.00000	0.00000
18 Colon excluding Rectum	-0.98791 ( 0.12656 )	-2.36600 ( 0.11226 )	0.02150	0.00000	0.00000
19 Rectum and Rectosigmoid J	-2.60904 ( 0.19370 )	-2.00738 ( 0.31554 )	0.04706	0.13996	0.13033
20 Liver and Intrahepatic Bi	3.05617 ( 0.12756 )	2.85857 ( 0.19285 )	0.02939	0.43764	0.42628
21 Liver	2.31517 ( 0.14534 )	2.71266 ( 0.22187 )	0.03371	0.17348	0.16298
22 Intrahepatic Bile Duct	9.01465 ( 0.30636 )	3.73589 ( 0.51502 )	0.07616	0.00000	0.00000
23 Gallbladder	-2.64656 ( 0.24536 )	-1.53995 ( 0.48949 )	0.06959	0.06641	0.05990
24 Other Biliary	-2.81449 ( 0.18682 )	-3.65275 ( 0.53714 )	0.07228	0.18065	0.17000
25 Pancreas	-0.40317 ( 0.05874 )	-0.39426 ( 0.19401 )	0.02576	0.96816	0.96737
26 Retroperitoneum	-5.63701 ( 0.49823 )	-2.68420 ( 1.11387 )	0.15509	0.02796	0.02427
27 Peritoneum, Omentum and M	-0.31829 ( 0.89814 )	4.60791 ( 1.42707 )	0.21431	0.00797	0.00653
28 Other Digestive Organs	-4.00785 ( 0.30807 )	3.54776 ( 2.10751 )	0.27071	0.00127	0.00096
29 Respiratory System	0.15618 ( 0.10760 )	-2.54261 ( 0.08343 )	0.01730	0.00000	0.00000
30 Nose, Nasal Cavity and Mi	-2.16152 ( 0.27623 )	-3.71470 ( 1.15055 )	0.15039	0.23318	0.22170
31 Larynx	-0.63743 ( 0.09716 )	-2.21785 ( 0.41215 )	0.05382	0.00070	0.00051
32 Lung and Bronchus	0.20164 ( 0.11152 )	-2.53538 ( 0.08350 )	0.01771	0.00000	0.00000
33 Pleura	0.49245 ( 0.40844 )	-5.63373 ( 0.83073 )	0.11766	0.00000	0.00000
34 Trachea, Mediastinum and	-3.84059 ( 0.35496 )	-4.21490 ( 1.43052 )	0.18733	0.81758	0.81310
35 Bones and Joints	-1.03432 ( 0.41720 )	0.50710 ( 0.56841 )	0.08961	0.04708	0.04183
36 Soft Tissue including Hea	1.03457 ( 0.10806 )	-1.86636 ( 0.56160 )	0.07269	0.00000	0.00000
37 Skin excluding Basal and	1.48499 ( 0.21683 )	-0.92676 ( 0.29656 )	0.04669	0.00000	0.00000
38 Melanoma of the Skin	1.65189 ( 0.13590 )	-1.14511 ( 0.35312 )	0.04809	0.00000	0.00000
39 Other Non-Epithelial Skin	1.10131 ( 0.47089 )	-0.34737 ( 0.61161 )	0.09811	0.08827	0.08060
40 Breast	0.40317 ( 0.47453 )	-0.35521 ( 1.08577 )	0.15060	0.56104	0.55129
41 Male Genital System	1.38340 ( 0.11120 )	-3.35652 ( 0.22018 )	0.03135	0.00000	0.00000
42 Prostate	1.45612 ( 0.11206 )	-3.40124 ( 0.21988 )	0.03137	0.00000	0.00000
43 Testis	-3.17493 ( 0.29347 )	-1.31581 ( 0.90241 )	0.12061	0.07517	0.06817
44 Penis	-2.15477 ( 0.41309 )	0.44102 ( 1.74277 )	0.22764	0.18806	0.17726
45 Urinary System	-0.28045 ( 0.08727 )	-0.46994 ( 0.10662 )	0.01751	0.21163	0.20044
46 Urinary Bladder	-1.12675 ( 0.16025 )	-0.66431 ( 0.19502 )	0.03208	0.09612	0.08809
47 Kidney and Renal Pelvis	1.00260 ( 0.09281 )	-0.20732 ( 0.16686 )	0.02427	0.00000	0.00000
48 Ureter	-1.06126 ( 0.43471 )	-3.05155 ( 1.85441 )	0.24208	0.34258	0.33066
49 Other Urinary Organs	-2.59350 ( 0.62897 )	4.13840 ( 2.59886 )	0.33984	0.02222	0.01909
50 Eye and Orbit	-1.74425 ( 0.43342 )	2.06275 ( 1.37227 )	0.18291	0.01627	0.01379
51 Brain and Other Nervous S	0.85214 ( 0.10548 )	-0.76199 ( 0.27160 )	0.03703	0.00000	0.00000
52 Endocrine System	-0.08767 ( 0.18546 )	0.94815 ( 0.49324 )	0.06698	0.07421	0.06726
53 Thyroid	0.06835 ( 0.26616 )	2.55398 ( 0.66252 )	0.09075	0.00157	0.00119
54 Other Endocrine including	-0.24578 ( 0.25539 )	-0.90111 ( 0.73065 )	0.09837	0.44189	0.43057
55 Lymphoma	2.05381 ( 0.10812 )	-0.90577 ( 0.31011 )	0.04174	0.00000	0.00000
56 Hodgkin Lymphoma	-3.66815 ( 0.28420 )	-2.91687 ( 0.50752 )	0.07393	0.24076	0.22921
57 Non-Hodgkin Lymphoma	2.66716 ( 0.12986 )	-0.76903 ( 0.33308 )	0.04544	0.00000	0.00000
58 Myeloma	1.44945 ( 0.08579 )	-0.63384 ( 0.28698 )	0.03807	0.00000	0.00000
59 Leukemia	-0.31509 ( 0.08696 )	-1.16978 ( 0.18611 )	0.02611	0.00016	0.00011
60 Lymphocytic Leukemia	-0.06745 ( 0.15905 )	-1.43414 ( 0.38148 )	0.05253	0.00267	0.00208
61 Acute Lymphocytic Leukemi	-1.07408 ( 0.23533 )	-0.61542 ( 0.70555 )	0.09453	0.57541	0.56590
62 Chronic Lymphocytic Leuke	0.88433 ( 0.25397 )	-1.58381 ( 0.39517 )	0.05970	0.00000	0.00000
63 Other Lymphocytic Leukemi	-4.22759 ( 0.26089 )	-2.84172 ( 1.08602 )	0.14196	0.25976	0.24804
64 Myeloid and Monocytic Leu	-1.23576 ( 0.19512 )	-0.34155 ( 0.26334 )	0.04166	0.01321	0.01109
65 Acute Myeloid Leukemia	-0.78771 ( 0.25898 )	1.27926 ( 0.25779 )	0.04644	0.00000	0.00000
66 Acute Monocytic Leukemia	-5.35300 ( 0.52077 )	-5.81060 ( 1.38431 )	0.18798	0.77870	0.77332
67 Chronic Myeloid Leukemia	-0.58622 ( 0.16262 )	-7.48499 ( 0.97162 )	0.12521	0.00000	0.00000
68 Other Myeloid/Monocytic L	-7.31063 ( 0.43678 )	4.63431 ( 2.02953 )	0.26385	0.00000	0.00000
69 Other Leukemia	1.00458 ( 0.22000 )	-2.35890 ( 0.35968 )	0.05359	0.00000	0.00000
70 Other Acute Leukemia	1.57263 ( 0.29680 )	-4.26489 ( 0.44006 )	0.06746	0.00000	0.00000
71 Aleukemic, Subleukemic an	0.37945 ( 0.25853 )	-0.13660 ( 0.44085 )	0.06496	0.35908	0.34720
72 Miscellaneous Malignant C	-0.10363 ( 0.23525 )	-0.04692 ( 0.33004 )	0.05151	0.89888	0.89637

Table B.2: Comparison of Changes in Age-adjusted cancer mortality rates between California (1990-2004) and the US (1980-1994) for females.

sites	$APC_{us}$ (SE)	$APC_{ca}$ (SE)	$\sigma^2$	p-value (Z-test)	p-value (t-test)
1 All Malignant Cancers	0.40400 ( 0.03737 )	-1.1995 ( 0.07756 )	0.01094	0.00000	0.00000
2 Oral Cavity and Pharynx	-1.35357 ( 0.09378 )	-2.6478 ( 0.32027 )	0.04241	0.00042	0.00031
3 Tongue	-1.33078 ( 0.19952 )	-1.9406 ( 0.56414 )	0.07605	0.35408	0.34273
4 Salivary Gland	-0.79551 ( 0.27112 )	-1.6580 ( 1.53080 )	0.19759	0.61392	0.60550
5 Floor of Mouth	-4.07290 ( 0.32488 )	-10.3092 ( 1.46769 )	0.19106	0.00016	0.00011
6 Gum and Other Mouth	-1.43953 ( 0.25762 )	-3.5480 ( 0.89911 )	0.11887	0.04038	0.03585
7 Nasopharynx	-0.88013 ( 0.29470 )	-1.7402 ( 1.07235 )	0.14135	0.48192	0.47154
8 Tonsil	-3.36049 ( 0.37876 )	-3.0276 ( 1.09826 )	0.14765	0.79443	0.78964
9 Oropharynx	0.53419 ( 0.70546 )	-1.4113 ( 1.74661 )	0.23941	0.34767	0.33631
10 Hypopharynx	-3.84815 ( 0.54731 )	-2.0945 ( 2.10828 )	0.27684	0.46413	0.45355
11 Other Oral Cavity and Pha	-0.08469 ( 0.37118 )	-2.6857 ( 0.96831 )	0.13180	0.02257	0.01954
12 Digestive System	-1.05530 ( 0.04113 )	-1.0174 ( 0.08568 )	0.01208	0.71694	0.71049
13 Esophagus	-0.02695 ( 0.10507 )	-0.4936 ( 0.44040 )	0.05755	0.34862	0.33726
14 Stomach	-2.19679 ( 0.11168 )	-2.2361 ( 0.26341 )	0.03636	0.90055	0.89819
15 Small Intestine	0.49738 ( 0.23347 )	-1.1258 ( 0.59587 )	0.08134	0.02110	0.01822
16 Colon and Rectum	-1.71438 ( 0.06537 )	-2.1068 ( 0.12624 )	0.01807	0.01207	0.01017
17 Colon excluding Rectum	-1.56494 ( 0.09316 )	-2.0724 ( 0.12469 )	0.01978	0.00303	0.00240
18 Rectum and Rectosigmoid J	-2.70471 ( 0.26231 )	-2.3023 ( 0.35657 )	0.05626	0.40840	0.39733
19 Anus, Anal Canal and Anor	1.54210 ( 0.37044 )	1.4404 ( 0.50560 )	0.07966	0.88270	0.87993
20 Liver and Intrahepatic Bi	2.41870 ( 0.16904 )	2.8416 ( 0.25130 )	0.03849	0.20425	0.19367
21 Liver	1.17094 ( 0.20476 )	2.2415 ( 0.30421 )	0.04661	0.00794	0.00657
22 Intrahepatic Bile Duct	8.52092 ( 0.33496 )	4.6627 ( 0.45037 )	0.07134	0.00000	0.00000
23 Gallbladder	-2.94543 ( 0.15996 )	-1.7201 ( 0.32906 )	0.04650	0.00233	0.00182
24 Other Biliary	-3.13665 ( 0.17143 )	-3.2242 ( 0.98554 )	0.12714	0.93656	0.93505
25 Pancreas	0.34744 ( 0.06179 )	-0.3244 ( 0.14192 )	0.01967	0.00008	0.00005
26 Retroperitoneum	-4.32978 ( 0.40012 )	-2.4084 ( 2.15884 )	0.27906	0.42619	0.41525
27 Peritoneum, Omentum and M	4.51348 ( 0.89926 )	11.5268 ( 1.02266 )	0.17308	0.00000	0.00000
28 Other Digestive Organs	-4.25304 ( 0.33605 )	4.0027 ( 1.31273 )	0.17223	0.00000	0.00000
29 Respiratory System	3.61472 ( 0.13458 )	-0.8987 ( 0.13886 )	0.02458	0.00000	0.00000
30 Nose, Nasal Cavity and Mi	-0.70758 ( 0.43469 )	-1.6394 ( 0.87092 )	0.12371	0.38404	0.37282
31 Larynx	1.21371 ( 0.25728 )	-3.1695 ( 0.99551 )	0.13068	0.00011	0.00007
32 Lung and Bronchus	3.71166 ( 0.13993 )	-0.8594 ( 0.13851 )	0.02502	0.00000	0.00000
33 Trachea, Mediastinum and	-2.31106 ( 0.38885 )	-3.7029 ( 1.76282 )	0.22944	0.48327	0.47290
34 Bones and Joints	-0.48883 ( 0.37556 )	-0.0312 ( 0.59852 )	0.08981	0.55596	0.54658
35 Soft Tissue including Hea	1.54851 ( 0.22162 )	-2.3136 ( 0.59262 )	0.08042	0.00000	0.00000
36 Skin excluding Basal and	0.13866 ( 0.14570 )	-1.7968 ( 0.25599 )	0.03744	0.00000	0.00000
37 Melanoma of the Skin	0.17192 ( 0.15360 )	-2.2282 ( 0.27928 )	0.04051	0.00000	0.00000
38 Other Non-Epithelial Skin	0.00164 ( 0.23994 )	0.1701 ( 0.86128 )	0.11363	0.86394	0.86073
39 Breast	-0.08345 ( 0.12945 )	-2.4052 ( 0.12810 )	0.02315	0.00000	0.00000
40 Female Genital System	-0.70389 ( 0.07288 )	-0.8266 ( 0.13887 )	0.01993	0.47665	0.46621
41 Cervix Uteri	-1.81997 ( 0.12578 )	-2.7864 ( 0.30711 )	0.04218	0.00810	0.00671
42 Corpus and Uterus, NOS	-1.45753 ( 0.09517 )	-0.4197 ( 0.22008 )	0.03047	0.00008	0.00006
43 Corpus Uteri	-1.25283 ( 0.14610 )	-1.6515 ( 0.29045 )	0.04132	0.26488	0.25367
44 Uterus, NOS	-1.66602 ( 0.18009 )	0.6246 ( 0.30305 )	0.04480	0.00000	0.00000
45 Ovary	0.12034 ( 0.07301 )	-0.3897 ( 0.19006 )	0.02588	0.02274	0.01969
46 Vagina	-1.52270 ( 0.33520 )	-0.0450 ( 1.12439 )	0.14912	0.25213	0.24101
47 Vulva	-0.19144 ( 0.26520 )	-0.4401 ( 0.74207 )	0.10016	0.77419	0.76896
48 Other Female Genital Orga	-0.51159 ( 0.45107 )	-2.8798 ( 1.05902 )	0.14630	0.06138	0.05545
49 Urinary System	0.12841 ( 0.07580 )	-0.3737 ( 0.25074 )	0.03329	0.08136	0.07437
50 Urinary Bladder	-0.88939 ( 0.15915 )	-0.2421 ( 0.36919 )	0.05110	0.14319	0.13390
51 Kidney and Renal Pelvis	1.17505 ( 0.15240 )	-0.5114 ( 0.23849 )	0.03597	0.00000	0.00000
52 Ureter	-0.86113 ( 0.44480 )	-0.4319 ( 1.29441 )	0.17396	0.77551	0.77031
53 Other Urinary Organs	-1.59386 ( 0.32699 )	0.51241 ( 1.65580 )	0.21451	0.25648	0.24533
54 Eye and Orbit	-2.35049 ( 0.44521 )	-1.09212 ( 1.83285 )	0.23973	0.54409	0.53454
55 Brain and Other Nervous S	0.96806 ( 0.12100 )	-0.78950 ( 0.24186 )	0.03437	0.00000	0.00000
56 Endocrine System	-0.64446 ( 0.20063 )	-0.82845 ( 0.57794 )	0.07776	0.78450	0.77950
57 Thyroid	-1.08132 ( 0.26928 )	-0.11015 ( 0.52083 )	0.07452	0.13204	0.12308
58 Other Endocrine including	0.07706 ( 0.22568 )	-2.21315 ( 0.99215 )	0.12932	0.04069	0.03613
59 Lymphoma	1.61631 ( 0.06812 )	-1.31900 ( 0.40750 )	0.05251	0.00000	0.00000
60 Hodgkin Lymphoma	-3.46456 ( 0.24364 )	-1.53544 ( 0.79565 )	0.10576	0.03503	0.03091
61 Non-Hodgkin Lymphoma	2.11389 ( 0.06817 )	-1.29605 ( 0.41882 )	0.05393	0.00000	0.00000
62 Myeloma	1.31123 ( 0.08985 )	-0.87526 ( 0.33092 )	0.04358	0.00000	0.00000
63 Leukemia	-0.32315 ( 0.08684 )	-1.19624 ( 0.15836 )	0.02295	0.00001	0.00001
64 Lymphocytic Leukemia	-0.11952 ( 0.19751 )	-1.55322 ( 0.35934 )	0.05212	0.00148	0.00113
65 Acute Lymphocytic Leukemi	-0.90026 ( 0.28043 )	-0.40742 ( 0.54511 )	0.07791	0.46476	0.45419
66 Chronic Lymphocytic Leuke	0.91209 ( 0.23062 )	-1.78207 ( 0.46202 )	0.06563	0.00000	0.00000
67 Other Lymphocytic Leukemi	-4.62562 ( 0.39316 )	-5.55778 ( 1.60359 )	0.20985	0.60770	0.59917
68 Myeloid and Monocytic Leu	-1.23508 ( 0.15510 )	-0.37999 ( 0.29947 )	0.04286	0.02114	0.01826
69 Acute Myeloid Leukemia	-0.75770 ( 0.17158 )	1.22486 ( 0.30773 )	0.04478	0.00000	0.00000
70 Acute Monocytic Leukemia	-4.54293 ( 0.54879 )	-9.06558 ( 3.75654 )	0.48252	0.27871	0.26741
71 Chronic Myeloid Leukemia	-0.77315 ( 0.24368 )	-7.22987 ( 0.99391 )	0.13007	0.00000	0.00000
72 Other Myeloid/Monocytic L	-7.61620 ( 0.54563 )	5.14116 ( 1.49323 )	0.20206	0.00000	0.00000
73 Other Leukemia	1.14041 ( 0.20278 )	-2.39493 ( 0.25479 )	0.04139	0.00000	0.00000
74 Other Acute Leukemia	1.45185 ( 0.30917 )	-4.90300 ( 0.39909 )	0.06416	0.00000	0.00000
75 Aleukemic, Subleukemic an	0.75916 ( 0.16949 )	0.46868 ( 0.40711 )	0.05605	0.54922	0.53974
76 Miscellaneous Malignant C	-0.36323 ( 0.16305 )	-0.54259 ( 0.28608 )	0.04185	0.62040	0.61209