

Complete Prevalence

Calculation of Completeness Index for Several Cancer Sites by Sex

Comprev Example 2

Objective

Calculate completeness indexes for all cancer sites combined, breast, colorectal, and prostate cancer to complete 27-year limited-duration prevalence at 1/1/2002. Calculate the indexes for all races combined for males and females separately. Export results to a text file.

Key Points

Although ComPrev can calculate completeness indexes for multiple selections of cancer site, sex, and race, complete prevalence can be calculated for only one selection of site/sex/race at a time. Thus, in this exercise we will calculate the completeness index for multiple selections of cancer sites/sex (for all races combined) and export to a text file which can be read into other software, such as SAS or Excel, to perform the calculations of complete prevalence.

Mode

Verify that **Multi-Select By Groups | Completeness Index Only | Default Parameters Only** is selected.

Cohort selection

Make the following selections (use the control key when making multiple selections):

- **Cancer site:** All sites, Breast, Colon and Rectum, and Prostate.
- **Race:** All races.
- **Sex:** Males, and females.

Set the Initial Date of Diagnosis and Prevalence Date

Define the dates that correspond to the dates used to calculate the limited-duration prevalence we are going to complete. For 27-year limited-duration prevalence on 1/1/2002 the appropriate dates are:

- **Prevalence Date:** 1/1/2002
- **Initial Date of Diagnosis:** 1/1/1975

Once these two settings are made, the Duration will show as 27 years. As an alternative, you can set the prevalence date and duration (rather than initial date of diagnosis).

Note, in the single group mode when we import SEER*Stat limited-duration prevalence these settings are loaded from the export dictionary file.

Use the defaults settings for Age Group Output (19 Age Groups) which will calculate completeness indexes by the age groups: 0,1-4,5-9,10-14,...., 80-84,85+ and for Calculate Standard Errors and Use a range of Initial Dates.

Execute

Use the lightning bolt tool bar icon to execute the analysis. Click the OK button on the dialog letting you know that ComPrev did not have data for female prostate cancer.

Incidence and survival functions for each combination of site/race/sex are displayed in **Incidence** and **Survival** Tabs, respectively. The Completeness Index and graphs are displayed at the **Completeness Index** tab. Use the drop-down list box on the tool bar to switch between site/sex combinations.

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Comprev Example 2 (continued)

Export and Results

Use the export results tool bar button to export the completeness indexes to a text file. When prompted, select to include the column titles. Included in the example directory is an Excel Spreadsheet with data loaded from Comprev and Projprev and the calculations to produce complete prevalence counts. Some column headers were changed and some columns and rows were removed. The all ages rows were added in Excel with the counts calculated as the sum of the age-specific counts. Please use care when combining results from Comprev and Projprev (or SEER*Stat), as SEER*Stat includes all combinations (including female prostate) and Comprev does not.

All SEER*Stat and Projprev files have also been included in the **c:\program files\comprev\example2** directory.

January 1st, 2002 U.S. Prevalence by Site, Sex and Age for All Races Combined

Loaded from ComPrev Export File			Complete Index % / 100	Loaded From ProjPrev Data File		U.S. LD-Prev % / Comp Proportion	U.S. LD-Prev # / Comp Proportion
Cohort Label	Age Group	Complete Index %	Complete Proportion	U.S. LD-Prev Percent	U.S. LD-Prev Count	U.S. Comp Prev Percent	U.S. Comp Prev Count
AllSites/All Races/Male	0	100.00000	1.00000	0.009414192	193	0.009414192	193
AllSites/All Races/Male	1-4	100.00000	1.00000	0.056020833	4,429	0.056020833	4,429
AllSites/All Races/Male	5-9	100.00000	1.00000	0.117246020	12,065	0.117246020	12,065
AllSites/All Races/Male	10-14	100.00000	1.00000	0.146174520	15,716	0.146174520	15,716
AllSites/All Races/Male	15-19	100.00000	1.00000	0.187983671	19,640	0.187983671	19,640
AllSites/All Races/Male	20-24	100.00000	1.00000	0.276622163	28,432	0.276622163	28,432
AllSites/All Races/Male	25-29	100.00000	1.00000	0.349680796	33,633	0.349680796	33,633
AllSites/All Races/Male	30-34	94.27120	0.94271	0.520908166	54,511	0.552563419	57,824
AllSites/All Races/Male	35-39	94.02340	0.94023	0.753928839	83,025	0.801852346	88,302
AllSites/All Races/Male	40-44	94.61780	0.94618	1.071498429	121,619	1.132449105	128,537
AllSites/All Races/Male	45-49	95.29190	0.95292	1.582774838	163,885	1.660975212	171,982
AllSites/All Races/Male	50-54	95.96460	0.95965	2.611412845	237,555	2.721225165	247,544
AllSites/All Races/Male	55-59	96.61680	0.96617	4.555821559	321,640	4.715351325	332,903
AllSites/All Races/Male	60-64	97.15880	0.97159	7.800236240	421,402	8.028337361	433,725
AllSites/All Races/Male	65-69	97.48470	0.97485	12.767164913	565,188	13.096583272	579,771
AllSites/All Races/Male	70-74	97.51700	0.97517	18.310031265	710,409	18.776245439	728,498
AllSites/All Races/Male	75-79	97.17740	0.97177	23.308261423	715,418	23.985269644	736,198
AllSites/All Races/Male	80-84	96.36250	0.96363	25.903573269	509,758	26.881383597	529,001
AllSites/All Races/Male	85+	95.10720	0.95107	25.144208127	338,110	26.437754583	355,504
AllSites/All Races/Male	All Ages				4,356,626		4,503,895
AllSites/All Races/Female	0	100.00000	1.00000	0.012125668	238	0.012125668	238
AllSites/All Races/Female	1-4	100.00000	1.00000	0.058382901	4,408	0.058382901	4,408
AllSites/All Races/Female	5-9	100.00000	1.00000	0.095765895	9,393	0.095765895	9,393
AllSites/All Races/Female	10-14	100.00000	1.00000	0.128594209	13,163	0.128594209	13,163
AllSites/All Races/Female	15-19	100.00000	1.00000	0.180319054	17,775	0.180319054	17,775
AllSites/All Races/Female	20-24	100.00000	1.00000	0.280908789	27,460	0.280908789	27,460
AllSites/All Races/Female	25-29	100.00000	1.00000	0.414609687	38,630	0.414609687	38,630
AllSites/All Races/Female	30-34	92.90240	0.92902	0.708547610	72,972	0.762679554	78,547
AllSites/All Races/Female	35-39	93.03730	0.93037	1.116494195	123,040	1.200050082	132,248
AllSites/All Races/Female	40-44	93.92210	0.93922	1.837039690	211,553	1.955918458	225,243
AllSites/All Races/Female	45-49	94.42010	0.94420	2.933500096	312,926	3.106859764	331,419
AllSites/All Races/Female	50-54	94.36650	0.94367	4.484119422	425,823	4.751812796	451,244
AllSites/All Races/Female	55-59	93.78290	0.93783	6.476725731	487,059	6.906083871	519,348
AllSites/All Races/Female	60-64	92.72090	0.92721	8.554067916	509,102	9.225609238	549,069
AllSites/All Races/Female	65-69	91.23200	0.91232	10.758192802	552,540	11.792126449	605,643
AllSites/All Races/Female	70-74	89.35430	0.89354	12.894012170	627,742	14.430208921	702,531
AllSites/All Races/Female	75-79	87.11340	0.87113	14.753209909	643,696	16.935637811	738,917
AllSites/All Races/Female	80-84	84.55730	0.84557	15.779671697	514,575	18.661513195	608,552
AllSites/All Races/Female	85+	81.85580	0.81856	15.269489585	481,803	18.654132737	588,600
AllSites/All Races/Female	All Ages				5,073,899		5,642,429

January 1st, 2002 U.S. Prevalence by Site, Sex and Age for All Races Combined

Loaded from ComPrev Export File			Complete Index % / 100	Loaded From ProjPrev Data File		U.S. LD-Prev % / Comp Proportion	U.S. LD-Prev # / Comp Proportion
Cohort Label	Age Group	Complete Index %	Complete Proportion	U.S. LD-Prev Percent	U.S. LD-Prev Count	U.S. Comp Prev Percent	U.S. Comp Prev Count
Breast/All Races/Female	0	100.00000	1.00000	0.000000000	-	0.000000000	-
Breast/All Races/Female	1-4	100.00000	1.00000	0.000000000	-	0.000000000	-
Breast/All Races/Female	5-9	100.00000	1.00000	0.000000000	-	0.000000000	-
Breast/All Races/Female	10-14	100.00000	1.00000	0.000000000	-	0.000000000	-
Breast/All Races/Female	15-19	100.00000	1.00000	0.000596235	59	0.000596235	59
Breast/All Races/Female	20-24	100.00000	1.00000	0.002373033	232	0.002373033	232
Breast/All Races/Female	25-29	100.00000	1.00000	0.017969917	1,674	0.017969917	1,674
Breast/All Races/Female	30-34	100.00000	1.00000	0.085393499	8,794	0.085393499	8,794
Breast/All Races/Female	35-39	99.99960	1.00000	0.250976175	27,658	0.250977179	27,658
Breast/All Races/Female	40-44	99.99510	0.99995	0.582072790	67,031	0.582101313	67,035
Breast/All Races/Female	45-49	99.96030	0.99960	1.234159518	131,652	1.234649674	131,704
Breast/All Races/Female	50-54	99.78380	0.99784	2.109600046	200,333	2.114170883	200,767
Breast/All Races/Female	55-59	99.19680	0.99197	3.240926526	243,722	3.267168423	245,696
Breast/All Races/Female	60-64	97.88050	0.97881	4.185524536	249,105	4.276157698	254,499
Breast/All Races/Female	65-69	95.77740	0.95777	4.974419220	255,486	5.193729648	266,750
Breast/All Races/Female	70-74	93.19990	0.93200	5.743208627	279,607	6.162247628	300,007
Breast/All Races/Female	75-79	90.54420	0.90544	6.358499908	277,427	7.022536958	306,400
Breast/All Races/Female	80-84	87.97120	0.87971	6.494172519	211,775	7.382157478	240,732
Breast/All Races/Female	85+	85.35870	0.85359	6.120891716	193,134	7.170788351	226,262
Breast/All Races/Female	All Ages				2,147,690		2,278,269
ColonRectum/All Races/Male	0	100.00000	1.00000	0.000000000	-	0.000000000	-
ColonRectum/All Races/Male	1-4	100.00000	1.00000	0.000000000	-	0.000000000	-
ColonRectum/All Races/Male	5-9	100.00000	1.00000	0.000000000	-	0.000000000	-
ColonRectum/All Races/Male	10-14	100.00000	1.00000	0.000318537	34	0.000318537	34
ColonRectum/All Races/Male	15-19	100.00000	1.00000	0.000438275	46	0.000438275	46
ColonRectum/All Races/Male	20-24	100.00000	1.00000	0.002203734	227	0.002203734	227
ColonRectum/All Races/Male	25-29	100.00000	1.00000	0.004338560	417	0.004338560	417
ColonRectum/All Races/Male	30-34	99.99810	0.99998	0.012802271	1,340	0.012802514	1,340
ColonRectum/All Races/Male	35-39	99.95810	0.99958	0.030696135	3,380	0.030709002	3,382
ColonRectum/All Races/Male	40-44	99.79980	0.99800	0.060019428	6,812	0.060139828	6,826
ColonRectum/All Races/Male	45-49	99.46620	0.99466	0.117198307	12,135	0.117827269	12,200
ColonRectum/All Races/Male	50-54	98.94540	0.98945	0.250628603	22,799	0.253299904	23,042
ColonRectum/All Races/Male	55-59	98.25690	0.98257	0.459805710	32,462	0.467962769	33,038
ColonRectum/All Races/Male	60-64	97.43420	0.97434	0.845676111	45,687	0.867945866	46,890
ColonRectum/All Races/Male	65-69	96.51430	0.96514	1.435158366	63,533	1.486990390	65,827
ColonRectum/All Races/Male	70-74	95.53130	0.95531	2.077505785	80,605	2.174685977	84,375
ColonRectum/All Races/Male	75-79	94.51480	0.94515	2.886363055	88,593	3.053874160	93,735
ColonRectum/All Races/Male	80-84	93.48880	0.93489	3.443500167	67,765	3.683329091	72,485
ColonRectum/All Races/Male	85+	92.47240	0.92472	4.222630443	56,781	4.566368390	61,403
ColonRectum/All Races/Male	All Ages				482,617		505,267

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Cohort Label	Age Group	Complete Index %	Complete Proportion	U.S. LD-Prev Percent	U.S. LD-Prev Count	U.S. Comp Prev Percent	U.S. Comp Prev Count
ColonRectum/All Races/Female	0	100.00000	1.00000	0.000000000	-	0.000000000	-
ColonRectum/All Races/Female	1-4	100.00000	1.00000	0.000000000	-	0.000000000	-
ColonRectum/All Races/Female	5-9	100.00000	1.00000	0.000115459	11	0.000115459	11
ColonRectum/All Races/Female	10-14	100.00000	1.00000	0.000000000	-	0.000000000	-
ColonRectum/All Races/Female	15-19	100.00000	1.00000	0.000636107	63	0.000636107	63
ColonRectum/All Races/Female	20-24	100.00000	1.00000	0.001868137	183	0.001868137	183
ColonRectum/All Races/Female	25-29	100.00000	1.00000	0.005597841	522	0.005597841	522
ColonRectum/All Races/Female	30-34	99.99510	0.99995	0.013665947	1,407	0.013666617	1,407
ColonRectum/All Races/Female	35-39	99.91510	0.99915	0.027680220	3,050	0.027703740	3,053
ColonRectum/All Races/Female	40-44	99.63800	0.99638	0.055325181	6,371	0.055526186	6,394
ColonRectum/All Races/Female	45-49	99.10100	0.99101	0.105667505	11,272	0.106626073	11,374
ColonRectum/All Races/Female	50-54	98.30910	0.98309	0.207885150	19,741	0.211460740	20,081
ColonRectum/All Races/Female	55-59	97.30390	0.97304	0.361158518	27,160	0.371165511	27,912
ColonRectum/All Races/Female	60-64	96.13900	0.96139	0.608671220	36,226	0.633115822	37,680
ColonRectum/All Races/Female	65-69	94.86660	0.94867	1.011006604	51,925	1.065713965	54,735
ColonRectum/All Races/Female	70-74	93.53220	0.93532	1.479531175	72,031	1.581841521	77,012
ColonRectum/All Races/Female	75-79	92.17320	0.92173	2.031397229	88,632	2.203891401	96,158
ColonRectum/All Races/Female	80-84	90.81910	0.90819	2.592710900	84,548	2.854807964	93,095
ColonRectum/All Races/Female	85+	89.49290	0.89493	3.310882400	104,469	3.699603432	116,735
ColonRectum/All Races/Female	All Ages				507,611		546,415
Prostate/All Races/Male	0	100.00000	1.00000	0.000000000	-	0.000000000	-
Prostate/All Races/Male	1-4	100.00000	1.00000	0.000140384	11	0.000140384	11
Prostate/All Races/Male	5-9	100.00000	1.00000	0.000218814	23	0.000218814	23
Prostate/All Races/Male	10-14	100.00000	1.00000	0.000212358	23	0.000212358	23
Prostate/All Races/Male	15-19	100.00000	1.00000	0.000665556	70	0.000665556	70
Prostate/All Races/Male	20-24	100.00000	1.00000	0.000337781	35	0.000337781	35
Prostate/All Races/Male	25-29	100.00000	1.00000	0.000651192	63	0.000651192	63
Prostate/All Races/Male	30-34	100.00000	1.00000	0.000608421	64	0.000608421	64
Prostate/All Races/Male	35-39	99.99990	1.00000	0.001513503	167	0.001513505	167
Prostate/All Races/Male	40-44	99.99860	0.99999	0.019630539	2,228	0.019630814	2,228
Prostate/All Races/Male	45-49	99.99180	0.99992	0.106172591	10,993	0.106181298	10,994
Prostate/All Races/Male	50-54	99.97270	0.99973	0.466489915	42,436	0.466617302	42,447
Prostate/All Races/Male	55-59	99.93530	0.99935	1.433839994	101,229	1.434768289	101,294
Prostate/All Races/Male	60-64	99.87740	0.99877	3.255397079	175,870	3.259393095	176,086
Prostate/All Races/Male	65-69	99.80140	0.99801	6.163234275	272,839	6.175498816	273,382
Prostate/All Races/Male	70-74	99.71380	0.99714	9.589879341	372,077	9.617404352	373,145
Prostate/All Races/Male	75-79	99.62320	0.99623	12.729024659	390,702	12.777169032	392,179
Prostate/All Races/Male	80-84	99.53890	0.99539	14.203972690	279,521	14.269770602	280,816
Prostate/All Races/Male	85+	99.46880	0.99469	13.233746880	177,952	13.304419959	178,902
Prostate/All Races/Male	All Ages				1,826,301		1,831,929