## Table XXII-1 PROSTATE CANCER (Invasive)

#### TRENDS IN SEER INCIDENCE AND U.S. MORTALITY, BY RACE

|  | All Races, Males | White Males   | Black Males   |
|--|------------------|---------------|---------------|
| INCIDENCE TRENDS (expressed i                                | n percents) §:   |               |               |
| <u>1973-93</u><br>All Ages                                   |                  |               |               |
| Percent Change (PC) Est. Annual PC (EAPC)                    | 175.9            | 168.9         | 148.0         |
|  | 4.8★             | 4.8*          | 3.9★          |
| Under 65<br>Percent Change (PC)<br>Est. Annual PC (EAPC)     | 301.8<br>6.2*    | 310.1<br>6.4* | 216.8<br>4.6* |
| 65 and over Percent Change (PC) Est. Annual PC (EAPC)        | 149.9            | 141.1         | 127.8         |
|  | 4.4*             | 4.4*          | 3.6*          |
| 1975-79 - ALL AGES Percent Change (PC) Est. Annual PC (EAPC) | 6.2              | 6.2           | 8.0           |
|  | 2.2*             | 2.3★          | 2.6           |
| 1989-93 - ALL AGES Percent Change (PC) Est. Annual PC (EAPC) | 46.5             | 40.5          | 60.2          |
|  | 12.4◆            | 10.8          | 16.4★◆        |
| MORTALITY TRENDS (expressed i                                | n percents)δ:    |               |               |
| 1973-93 All Ages Percent Change (PC) Est. Annual PC (EAPC)   | 22.5             | 20.3          | 41.8          |
|  | 1.1*             | 1.0*          | 1.9*          |
| Under 65<br>Percent Change (PC)<br>Est. Annual PC (EAPC)     | 4.4<br>0.5★      | 3.3<br>0.6★   | 8.6<br>0.4*   |
| 65 and over<br>Percent Change (PC)<br>Est. Annual PC (EAPC)  | 24.8<br>1.2*     | 22.2<br>1.1*  | 47.9<br>2.1★  |
| 1975-79 - ALL AGES Percent Change (PC) Est. Annual PC (EAPC) | 3.5              | 3.3           | 5.0           |
|  | 1.2★             | 1.1★          | 1.6*          |
| 1989-93 - ALL AGES Percent Change (PC) Est. Annual PC (EAPC) | 2.5              | 1.9           | 6.0           |
|  | 0.9              | 0.7           | 2.2*          |

The Est. Annual PC is the Estimated Annual Percent Change (EAPC) over the time interval.

<sup>§</sup> SEER Program.

 $<sup>\</sup>delta$  NCHS public use tape.

<sup>\*</sup> The EAPC is significantly different from zero (p<.05).

<sup>♦</sup> The EAPC for 1989-93 is significantly different from the EAPC for 1975-79 (p<.05).

The EAPC for 1989-93 is significantly different from the EAPC for 1975-79 (p<.10).

<sup>-</sup> Statistic could not be calculated.

#### Table XXII-2 PROSTATE CANCER (Invasive)

#### SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATESS, BY RACE

|  | All Races, Males  | White Males   | Black Males   |
|--|---|---|---|
| AGE-ADJUSTED RATES YEAR OF DIAGNOSIS:  |   |   |   |
| YEAR OF DIAGNOSIS:  1973  1974  1975  1976  1977  1978  1979  1980  1981  1982  1983  1984  1985  1986  1987  1988  1989  1990 | 64.2<br>65.6<br>70.6<br>73.5<br>76.1<br>75.1<br>78.0<br>79.8<br>82.0<br>82.2<br>84.8<br>84.5<br>88.1<br>91.1<br>102.9<br>106.0<br>112.6<br>131.8<br>168.3 | 62.5<br>64.8<br>68.9<br>72.6<br>74.4<br>73.4<br>77.0<br>78.7<br>80.8<br>81.2<br>83.8<br>82.8<br>82.7<br>102.7<br>102.7<br>105.7<br>112.1<br>131.7 | 106.3<br>100.7<br>111.5<br>110.2<br>122.2<br>116.5<br>123.1<br>126.6<br>126.9<br>130.6<br>134.1<br>139.8<br>133.1<br>131.6<br>147.2<br>147.8<br>148.4<br>172.1<br>220.3 |
| 1992<br>1993   | 189.4<br>168.6  | 184.5<br>158.0  | 251.4<br>251.9  |
| AGE-ADJUSTED RATES, 1989-93 AGE AT DIAGNOSIS: All ages Under 65 65 and over  | 154.5<br>38.2<br>1216.2   | 150.7<br>37.3<br>1186.5   | 211.7<br>60.3<br>1593.7   |
| All ages (world std.) $\lambda$  | 112.7   | 110.1   | 156.7   |
| AGE-SPECIFIC RATES, 1989-93 AGE AT DIAGNOSIS: 0-4 5-9 10-14  | 0.0<br>0.0<br>0.0   | 0.0<br>0.0<br>0.0   | 0.0<br>0.0<br>0.0   |
| 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85+  | 0.0<br>0.0<br>0.1<br>0.2<br>2.5<br>13.0<br>69.1<br>197.1<br>471.7<br>887.0<br>1278.2<br>1473.0<br>1510.1<br>1420.7  | 0.1<br>0.0<br>0.0<br>0.1<br>0.2<br>2.2<br>13.0<br>66.1<br>191.0<br>463.8<br>869.6<br>1262.8<br>1426.1<br>1451.7<br>1368.9                         | 0.0<br>0.0<br>0.3<br>0.0<br>0.2<br>4.6<br>17.8<br>117.4<br>340.0<br>705.3<br>1251.9<br>1638.8<br>1889.2<br>1931.6<br>1751.6   |

SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted. SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

# Table XXII-3 <u>PROSTATE CANCER (Invasive)</u>

#### U.S. MORTALITY RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES $\delta$ , BY RACE

|                              | All Races, Males             | White Males                  | Black Males     |
|------------------------------|------------------------------|------------------------------|-----------------|
| AGE-ADJUSTED RATES           |                              |                              |                 |
| YEAR OF DEATH:               |                              |                              |                 |
| 1973                         | 21.7                         | 20.3                         | 39.5            |
| 1974                         | 21.7                         | 20.2                         | 39.7            |
| 1975                         | 21.6                         | 20.1                         | 40.6            |
| 1976                         | 22.1                         | 20.6                         | 40.8            |
| 1977                         | 22.1                         | 20.6                         | 41.2            |
| 1978                         | 22.6<br>22.7<br>22.8         | 21.0<br>21.1                 | 42.5            |
| 1979<br>1980                 | 22.7                         | 21.1                         | 43.0<br>44.6    |
| 1980                         | 22.0                         | 21.1                         | 45.8            |
| 1981                         | 22.9<br>23.0                 | 21.0<br>21.3                 | 44.7            |
| 1983                         | 23.4                         | 21.6                         | 46.6            |
| 1984                         | 23.4                         | 21.6<br>21.5                 | 47.1            |
| 1985                         | 23.4<br>23.4<br>23.4<br>23.4 | 21.5                         | 48.1            |
| 1986                         | 24.1                         | 22.2                         | 48.3            |
| 1987                         | 24.1                         | 22.2                         | 49.1            |
| 1988                         | 24.7                         | 21.5<br>22.2<br>22.2<br>22.8 | 49.5            |
| 1989                         | 25.4                         | 23.5                         | 51.1            |
| 1990                         | 26.5                         | 24.3                         | 54.9            |
| 1991                         | 26.8<br>26.7                 | 24.7<br>24.5                 | 55.0            |
| 1992                         | 26.7                         | 24.5                         | 55.8            |
| 1993                         | 26.5                         | 24.3                         | 56.5            |
| AGE-ADJUSTED RATES, 1989-93  |                              |                              |                 |
| AGE AT DEATH:                |                              |                              |                 |
| All ages                     | 26.4                         | 24.3                         | 54.7            |
| Under 65                     | 2.9                          | 2.5                          | 7.3             |
| 65 and over                  | 240.6                        | 222.8                        | 487.2           |
| All ages (world std.) $\phi$ | 17.3                         | 15.8                         | 36.5            |
| MII ages (world seα.)φ       | 17.3                         | 13.0                         | 30.3            |
| AGE-SPECIFIC RATES, 1989-93  |                              |                              |                 |
| AGE AT DEATH:                |                              |                              |                 |
| 0-4                          | 0.0                          | 0.0                          | 0.0             |
| 5-9                          | 0.0                          | 0.0                          | 0.0             |
| 10-14                        | 0.0                          | 0.0                          | 0.0             |
| 15-19                        | 0.0                          | 0.0                          | 0.0             |
| 20-24<br>25-29               | 0.0<br>0.0                   | 0.0<br>0.0                   | 0.0<br>0.0      |
| 30-34                        | 0.0                          | 0.0                          | 0.1             |
| 35-39                        | 0.0                          | 0.0                          | 0.1             |
| 40-44                        | 0.2                          | 0.2                          | 0.4             |
| 45-49                        | 0.9                          | 0.7                          | 2.6             |
| 50-54                        | 4.3                          | 3.6                          | 11.1            |
| 55-59                        | 4.3<br>14.2                  | 12.0                         | 38.1            |
| 60-64                        | 38.3                         | 33.8                         | 92.7            |
| 65-69                        | 84.6                         | 75.5                         | 201.3           |
| 70-74                        | 163.8                        | 148.9                        | 371.5           |
| 75-79                        | 282.8                        | 261.7                        | 586.6           |
| 80-84<br>85+                 | 476.7<br>774.4               | 445.2<br>735.6               | 939.1<br>1291.8 |
| UJT                          | //4.4                        | /35.0                        | 1231.0          |

 $<sup>\</sup>delta$  NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.

 $<sup>\</sup>phi$  NCHS public use tape. Rates are per 100,000 and are age-adjusted to the world standard population.

## Table XXII-4 PROSTATE CANCER (Invasive)

#### SURVIVAL RATES, BY RACE, DIAGNOSIS YEAR, STAGE AND AGE

|  | All Races, Males  | White Males   | Black Males                  |
|--|---|---|------------------------------|
| 5-YR RELATIVE SURVIVAL RATI  | ES  |   |                              |
| YEAR OF DIAGNOSIS:   | <u> </u>  |   |                              |
| 1960-63ª   | _   | 50  | 35                           |
| 1970-73ª   |   | 63  | 55                           |
| 1974-76 <sup>b</sup>   | 66.8  | 67.7  | 58.1                         |
| 1977-79 <sup>b</sup>   | 71.0  | 72.1  | 62.4                         |
| 1980-82 <sup>b</sup>   | 73.4  | 74.5  | 64.6                         |
| 1983-85 <sup>b</sup>   | 75.8  | 77.5  | 63.9                         |
| 1986-92 <sup>b</sup>   | 86.7Ω   | 88.6Ω   | 73.2Ω                        |
| 1986-92 <sup>b</sup>   |   |   |                              |
| ALL STAGES   | 86.7  | 88.6  | 73.2                         |
| LOCALIZED  | 99.1  | 100.0   | 90.7                         |
| REGIONAL   | 92.7  | 94.1  | 80.2                         |
| DISTANT  | 30.3  | 31.0  | 25.4                         |
| UNSTAGED   | 80.8  | 81.8  | 73.3                         |
| STAGE DISTRIBUTION (%) 1980  | 6-92 <sup>b</sup>   |   |                              |
| STAGE DISTRIBUTION (%) 1980  ALL STAGES  Number of cases  Percent  | 86,281<br>100%  | 74,806<br>100%<br>59  | 8,348<br>100%<br>53          |
| STAGE DISTRIBUTION (%) 1980<br>ALL STAGES<br>Number of cases   | 86,281  |   |                              |
| STAGE DISTRIBUTION (%) 1980  ALL STAGES  Number of cases  Percent  LOCALIZED   | 86,281<br>100%<br>58  | 100%<br>59  | 100%<br>53                   |
| STAGE DISTRIBUTION (%) 1980  ALL STAGES  Number of cases  Percent  LOCALIZED  REGIONAL   | 86,281<br>100%<br>58<br>18  | 100%<br>59<br>18  | 100%<br>53<br>13             |
| STAGE DISTRIBUTION (%) 1986  ALL STAGES  Number of cases  Percent  LOCALIZED  REGIONAL  DISTANT  UNSTAGED  S-YR RELATIVE SURVIVAL RATIO          | 86,281<br>100%<br>58<br>18<br>12  | 100%<br>59<br>18<br>11  | 100%<br>53<br>13<br>20       |
| ALL STAGES  Number of cases Percent LOCALIZED REGIONAL DISTANT UNSTAGED  S-YR RELATIVE SURVIVAL RATIOAGE AT DIAGNOSIS:                           | 86,281<br>100%<br>58<br>18<br>12<br>12  | 100%<br>59<br>18<br>11  | 100%<br>53<br>13<br>20       |
| ALL STAGES  Number of cases Percent LOCALIZED REGIONAL DISTANT UNSTAGED  S-YR RELATIVE SURVIVAL RATIONAGE AT DIAGNOSIS:                          | 86,281<br>100%<br>58<br>18<br>12<br>12<br>12  | 100%<br>59<br>18<br>11<br>12  | 100%<br>53<br>13<br>20<br>13 |
| ALL STAGES  Number of cases Percent LOCALIZED REGIONAL DISTANT UNSTAGED  S-YR RELATIVE SURVIVAL RATI AGE AT DIAGNOSIS: <45 45                    | 86,281<br>100%<br>58<br>18<br>12<br>12<br>12<br>ES, 1986-92 <sup>b</sup><br>65.7↑<br>82.3   | 100%<br>59<br>18<br>11<br>12<br>67.0↑<br>84.1                         | 100%<br>53<br>13<br>20<br>13 |
| ALL STAGES  Number of cases Percent LOCALIZED REGIONAL DISTANT UNSTAGED  S-YR RELATIVE SURVIVAL RATI AGE AT DIAGNOSIS: <45 45-54 55-64           | 86,281<br>100%<br>58<br>18<br>12<br>12<br>12<br>ES, 1986-92 <sup>b</sup><br>65.7 <sup>†</sup><br>82.3<br>86.8                       | 100%<br>59<br>18<br>11<br>12<br>67.0↑<br>84.1<br>88.4                 | 100%<br>53<br>13<br>20<br>13 |
| ALL STAGES  Number of cases Percent LOCALIZED REGIONAL DISTANT UNSTAGED  S-YR RELATIVE SURVIVAL RATI AGE AT DIAGNOSIS: <45 45-54 55-64 65-74     | 86,281<br>100%<br>58<br>18<br>12<br>12<br>12<br>12<br>ES, 1986-92 <sup>b</sup><br>65.7 <sup>†</sup><br>82.3<br>86.8<br>90.3         | 100%<br>59<br>18<br>11<br>12<br>67.0↑<br>84.1<br>88.4<br>91.9         | 100%<br>53<br>13<br>20<br>13 |
| ALL STAGES  Number of cases Percent LOCALIZED REGIONAL DISTANT UNSTAGED  6-YR RELATIVE SURVIVAL RATE AGE AT DIAGNOSIS: <45 45-54 55-64 65-74 75+ | 86,281<br>100%<br>58<br>18<br>12<br>12<br>12<br>12<br>85, 1986-92 <sup>b</sup><br>65.7 <sup>†</sup><br>82.3<br>86.8<br>90.3<br>83.1 | 100%<br>59<br>18<br>11<br>12<br>67.0↑<br>84.1<br>88.4<br>91.9<br>85.5 | 100%<br>53<br>13<br>20<br>13 |
| ALL STAGES  Number of cases Percent LOCALIZED REGIONAL DISTANT UNSTAGED  S-YR RELATIVE SURVIVAL RATI AGE AT DIAGNOSIS: <45 45-54 55-64 65-74     | 86,281<br>100%<br>58<br>18<br>12<br>12<br>12<br>12<br>ES, 1986-92 <sup>b</sup><br>65.7 <sup>†</sup><br>82.3<br>86.8<br>90.3         | 100%<br>59<br>18<br>11<br>12<br>67.0↑<br>84.1<br>88.4<br>91.9         | 100%<br>53<br>13<br>20<br>13 |

Rates are based on End Results data from a series of hospital registries and one population-based registry.

Rates are from the SEER Program. They are based on data from population-based registries in Connecticut, New Mexico, Utah, Iowa, Hawaii, Atlanta, Detroit, Seattle-Puget Sound and San Francisco-Oakland. Rates are based on follow-up of patients through 1993.

 $<sup>\</sup>Omega$  The difference in rates between 1974-76 and 1986-92 is statistically significant (p<.05).

The standard error of the survival rate is between 5 and 10 percentage points.

The standard error of the survival rate is greater than 10 percentage points.

<sup>-</sup> Statistic could not be calculated.

## Table XXII-5 PROSTATE CANCER (Invasive)

#### INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males

Year of Diagnosis/Death

|             |           |       |        |      |      |      |      |      |      | -    |      |      |      |      |       |       |       |       |       |       |       |
|-------------|-----------|-------|--------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
|             | 1973      | 1974  | 1975   | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  | 1993  |
| Incidence   |           |       |        |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| Therdence   |           |       |        |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| SEER        | 64.2      | 65.6  | 70.6   | 73.5 | 76.1 | 75.1 | 78.0 | 79.8 | 82.0 | 82.2 | 84.8 | 84.5 | 88.1 | 91.1 | 102.9 | 106.0 | 112.6 | 131.8 | 168.3 | 189.4 | 168.6 |
|             |           |       |        |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| Mortality   |           |       |        |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| 1           |           |       |        |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| U.S.        | 21.7      | 21.7  | 21.6   | 22.1 | 22.1 | 22.6 | 22.7 | 22.8 | 22.9 | 23.0 | 23.4 | 23.4 | 23.4 | 24.1 | 24.1  | 24.7  | 25.4  | 26.5  | 26.8  | 26.7  | 26.5  |
| SEER        | 21.7      | 21.2  | 22.0   | 23.4 | 22.3 | 23.3 | 23.1 | 23.3 | 22.9 | 23.4 | 23.8 | 22.9 | 23.6 | 24.2 | 24.7  | 24.3  | 25.4  | 25.6  | 26.5  | 26.4  | 25.6  |
|             |           |       |        |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| Relative Su | ırvivəl   | Datos | / CFFD |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| Kelacive St | ıı vı vaı | Races | (SEEK  | .,   |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| 1-year      | 87.2      | 89.7  | 90.2   | 91.2 | 92.1 | 92.2 | 93.2 | 93.3 | 94.0 | 94.2 | 94.5 | 94.7 | 95.2 | 95.5 | 96.0  | 96.9  | 97.3  | 98.0  | 99.2  | 100.0 |       |
| 2-year      | 78.3      | 81.7  | 83.4   | 84.4 | 85.4 | 85.1 | 86.8 | 87.6 | 88.2 | 88.0 | 89.0 | 89.0 | 89.2 | 90.3 | 92.4  | 93.7  | 94.6  | 95.6  | 98.2  |       |       |
| 3-year      | 71.9      | 74.2  | 76.7   | 78.3 | 78.9 | 79.7 | 80.7 | 81.4 | 82.5 | 83.0 | 83.5 | 83.6 | 84.7 | 85.5 | 88.4  | 90.2  | 91.6  | 93.6  |       |       |       |
| 4-year      | 65.5      | 68.0  | 71.9   | 73.3 | 74.0 | 74.5 | 76.3 | 76.7 | 77.4 | 77.8 | 78.5 | 79.6 | 80.6 | 82.1 | 85.4  | 87.8  | 89.4  |       |       |       |       |
| 5-year      | 61.0      | 63.8  | 66.7   | 69.2 | 69.9 | 70.6 | 72.5 | 72.2 | 73.8 | 74.0 | 74.6 | 75.3 | 77.3 | 79.7 | 83.0  | 85.8  |       |       |       |       |       |
| 6-year      | 55.9      | 59.8  | 63.0   | 65.4 | 66.5 | 68.1 | 69.9 | 68.4 | 71.1 | 70.2 | 71.6 | 73.1 | 74.8 | 76.9 | 80.9  |       |       |       |       |       |       |
| 7-year      | 52.6      | 56.8  | 59.9   | 63.2 | 63.6 | 64.5 | 66.4 | 65.1 | 67.3 | 66.8 | 68.0 | 71.7 | 72.8 | 75.1 |       |       |       |       |       |       |       |
| 8-year      | 49.2      | 53.0  | 56.7   | 60.2 | 60.8 | 61.7 | 64.0 | 61.9 | 65.2 | 64.5 | 65.1 | 69.4 | 70.6 |      |       |       |       |       |       |       |       |
| 9-year      | 46.8      | 50.8  | 53.9   | 57.7 | 59.0 | 59.1 | 62.0 | 59.8 | 63.2 | 62.3 | 63.8 | 67.5 |      |      |       |       |       |       |       |       |       |
| 10-year     | 44.6      | 48.1  | 51.3   | 55.3 | 57.6 | 56.9 | 59.9 | 57.5 | 61.0 | 61.4 | 62.8 |      |      |      |       |       |       |       |       |       |       |
| 11-year     | 42.6      | 46.1  | 50.1   | 52.5 | 54.8 | 55.0 | 57.9 | 56.3 | 58.7 | 59.6 |      |      |      |      |       |       |       |       |       |       |       |
| 12-year     | 41.4      | 44.2  | 48.2   | 50.9 | 53.0 | 53.6 | 55.8 | 54.3 | 57.0 |      |      |      |      |      |       |       |       |       |       |       |       |
| 13-year     | 39.6      | 43.2  | 46.6   | 49.1 | 52.5 | 52.5 | 53.3 | 53.1 |      |      |      |      |      |      |       |       |       |       |       |       |       |
| 14-year     | 37.9      | 41.8  | 45.9   | 48.5 | 50.3 | 51.7 | 51.3 |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| 15-year     | 36.8      | 40.2  | 45.6   | 48.0 | 49.4 | 50.7 |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| 16-year     | 35.8      | 39.6  | 43.9   | 46.0 | 48.0 |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| 17-year     | 35.8      | 39.0  | 43.4   | 44.7 |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| 18-year     | 35.4      | 39.0  | 42.4   |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| 19-year     | 35.0      | 38.5  |        |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| 20-year     | 33.5      |       |        |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |

Note: Incidence and mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

Survival rates are relative rates expressed as percents.

# Table XXII-6 PROSTATE CANCER (Invasive)

Percent Diagnosed With Cancer In 10, 20 and 30 Years and In Remaining Lifetime, Given Cancer Free At Current Age By Race

Lifetime Risk (Percent) of Being Diagnosed With Cancer and Lifetime Risk (Percent) of Dying From Cancer

SEER Areas, 1991-93

#### All Races

| Curr | ent     |         |         |                   |
|------|---------|---------|---------|-------------------|
| Age  |         |         |         |                   |
|      | +10 yrs | +20 yrs | +30 yrs | <u>Eventually</u> |
|      |         |         |         |                   |
| 0    | 0.00    | 0.00    | 0.00    | 19.84             |
| 10   | 0.00    | 0.00    | 0.00    | 20.08             |
| 20   | 0.00    | 0.00    | 0.09    | 20.23             |
| 30   | 0.00    | 0.09    | 1.54    | 20.57             |
| 40   | 0.09    | 1.58    | 7.77    | 21.12             |
| 50   | 1.55    | 8.01    | 16.96   | 21.94             |
| 60   | 7.14    | 17.04   | 21.82   | 22.55             |

Lifetime Risk of Being Diagnosed = 19.84% Lifetime Risk of Dying = 3.62%

#### Whites

#### Current

|    | +10 yrs | +20 yrs | +30 yrs | Eventually |
|----|---------|---------|---------|------------|
|    | _       | _       | _       | _          |
| 0  | 0.00    | 0.00    | 0.00    | 19.63      |
| 10 | 0.00    | 0.00    | 0.00    | 19.82      |
| 20 | 0.00    | 0.00    | 0.09    | 19.94      |
| 30 | 0.00    | 0.09    | 1.50    | 20.22      |
| 40 | 0.09    | 1.53    | 7.66    | 20.69      |
| 50 | 1.49    | 7.86    | 16.65   | 21.39      |
| 60 | 6.99    | 16.64   | 21.18   | 21.84      |

Lifetime Risk of Being Diagnosed = 19.63% Lifetime Risk of Dying = 3.56%

#### Blacks

#### Current

| 7                     | ~ | $\sim$ |
|-----------------------|---|--------|
| $\boldsymbol{\Gamma}$ | ч | ᆮ      |

| 90 |              |         |         |                   |
|----|--------------|---------|---------|-------------------|
|    | +10 yrs      | +20 yrs | +30 yrs | <u>Eventually</u> |
|    | <del>-</del> | _       | _       | _                 |
| 0  | 0.00         | 0.00    | 0.00    | 18.62             |
| 10 | 0.00         | 0.00    | 0.00    | 19.11             |
| 20 | 0.00         | 0.00    | 0.11    | 19.42             |
| 30 | 0.00         | 0.11    | 2.33    | 20.20             |
| 40 | 0.12         | 2.47    | 9.54    | 21.42             |
| 50 | 2.60         | 10.42   | 19.15   | 23.57             |
| 60 | 9.61         | 20.33   | 24.69   | 25.76             |

Lifetime Risk of Being Diagnosed = 18.62% Lifetime Risk of Dying = 4.62%

## Table XXII-7 PROSTATE CANCER (Invasive)

#### AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITYÔ RATES BY STATE, 1989-93

#### All Races, Males

| State                | Rate   | SE   | Rank | PD    |
|----------------------|--------|------|------|-------|
| TOTAL U.S.           | 26.4   | 0.07 |      |       |
| High Five States     |        |      |      |       |
| District of Columbia | 43.2⊕≎ | 1.76 | (01) | 63.6  |
| South Carolina       | 33.5⊕≎ | 0.69 | (02) | 26.9  |
| North Dakota         | 32.0♥  | 1.25 | (03) | 21.2  |
| Georgia              | 31.8⊕≎ | 0.51 | (04) | 20.5  |
| Mississippi          | 31.7⊕≎ | 0.70 | (05) | 20.1  |
| Low Five States      |        |      | , ,  |       |
| Nebraska             | 23.5♥  | 0.71 | (47) | -11.0 |
| West Virginia        | 23.3∜  | 0.66 | (48) | -11.7 |
| New Mexico           | 23.2♥  | 0.81 | (49) | -12.1 |
| Alaska               | 22.2♥  | 2.26 | (50) | -15.9 |
| Hawaii               | 17.0⊕≎ | 0.76 | (51) | -35.6 |
|                      |        |      |      |       |

| State                | Rate   | SE   | Rank | PD           | State          | Rate   | SE   | Rank | PD    |
|----------------------|--------|------|------|--------------|----------------|--------|------|------|-------|
| Alabama              | 27.9   | 0.53 | (16) | 5.7          | Montana        | 29.0   | 1.11 | (12) | 9.8   |
| Alaska               | 22.20  | 2.26 | (50) | -15.9        | Nebraska       | 23.5≎  | 0.71 | (47) | -11.0 |
| Arizona              | 23.8⊕  | 0.48 | (46) | -9.8         | Nevada         | 25.5   | 1.03 | (34) | -3.4  |
| Arkansas             | 26.9   | 0.61 | (23) | 1.9          | New Hampshire  | 25.8   | 1.01 | (30) | -2.3  |
| California           | 24.6⊕  | 0.20 | (40) | -6.8         | New Jersey     | 27.9   | 0.38 | (14) | 5.7   |
| Colorado             | 26.8   | 0.63 | (24) | 1.5          | New Mexico     | 23.2≎  | 0.81 | (49) | -12.1 |
| Connecticut          | 24.3   | 0.53 | (42) | -8.0         | New York       | 25.1⊕  | 0.23 | (37) | -4.9  |
| Delaware             | 29.20  | 1.38 | (11) | 10.6         | North Carolina | 31.7⊕≎ | 0.46 | (06) | 20.1  |
| District of Columbia | 43.2⊕≎ | 1.76 | (01) | 63.6         | North Dakota   | 32.0≎  | 1.25 | (03) | 21.2  |
| Florida              | 24.1⊕  | 0.22 | (43) | -8.7         | Ohio           | 26.6   | 0.31 | (26) | 0.8   |
| Georgia              | 31.8⊕≎ | 0.51 | (04) | 20.5         | Oklahoma       | 25.5   | 0.54 | (35) | -3.4  |
| Hawaii               | 17.0⊕≎ | 0.76 | (51) | -35.6        | Oregon         | 25.7   | 0.56 | (31) | -2.7  |
| Idaho                | 27.0   | 1.00 | (22) | 2.3          | Pennsylvania   | 26.5   | 0.28 | (27) | 0.4   |
| Illinois             | 27.0   | 0.31 | (20) | 2.3          | Rhode Island   | 24.0   | 0.93 | (44) | -9.1  |
| Indiana              | 25.6   | 0.43 | (33) | -3.0         | South Carolina | 33.5⊕≎ | 0.69 | (02) | 26.9  |
| Iowa                 | 24.9   | 0.53 | (39) | <b>-5.</b> 7 | South Dakota   | 26.6   | 1.10 | (25) | 0.8   |
| Kansas               | 23.9   | 0.58 | (45) | -9.5         | Tennessee      | 27.0   | 0.47 | (21) | 2.3   |
| Kentucky             | 24.9   | 0.52 | (38) | <b>-5.</b> 7 | Texas          | 25.4   | 0.27 | (36) | -3.8  |
| Louisiana            | 30.6⊕≎ | 0.58 | (08) | 15.9         | Utah           | 27.7   | 0.92 | (17) | 4.9   |
| Maine                | 27.4   | 0.91 | (19) | 3.8          | Vermont        | 29.8≎  | 1.48 | (10) | 12.9  |
| Maryland             | 31.5⊕≎ | 0.57 | (07) | 19.3         | Virginia       | 29.8⊕≎ | 0.49 | (09) | 12.9  |
| Massachusetts        | 26.2   | 0.41 | (29) | -0.8         | Washington     | 25.6   | 0.46 | (32) | -3.0  |
| Michigan             | 27.6   | 0.35 | (18) | 4.5          | West Virginia  | 23.3≎  | 0.66 | (48) | -11.7 |
| Minnesota            | 26.3   | 0.47 | (28) | -0.4         | Wisconsin      | 27.9   | 0.45 | (15) | 5.7   |
| Mississippi          | 31.7⊕≎ | 0.70 | (05) | 20.1         | Wyoming        | 28.6   | 1.69 | (13) | 8.3   |
| Missouri             | 24.6   | 0.41 | (41) | -6.8         |                |        |      | ` ,  |       |

 $<sup>\</sup>delta$  NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

SE Standard error of the rate.

PD Percent difference between state rate and total U.S. rate.

Absolute difference between state rate and total U.S. rate is 10% or more.

Difference between state rate and total U.S. rate is statistically significant (p<=.0002).</p>

# Table XXII-8 PROSTATE CANCER (Invasive)

# $\frac{\text{AGE-ADJUSTED SEER INCIDENCE RATES\$, SEER MORTALITY RATES\$, AND 5-YEAR RELATIVE SURVIVAL RATES\$}{\text{By Registry and Race}}$

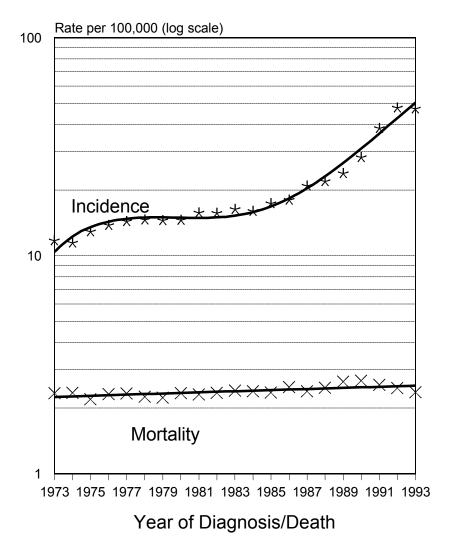
|   | All Races, Males  | White Males  | Black Males  |
|---|---|--|--|
| SEER INCIDENCE RATESS, 1989-93  |   |  |  |
| REGISTRY Standard 9 registries  | 154.5   | 150.7  | 211.7  |
| San Francisco-Oakland<br>Connecticut<br>Metropolitan Detroit<br>Hawaii<br>Iowa<br>New Mexico<br>Seattle-Puget Sound<br>Utah<br>Metropolitan Atlanta | 138.6<br>128.5<br>188.7<br>117.2<br>134.3<br>146.6<br>176.3<br>172.8<br>185.7 | 141.0<br>124.4<br>171.3<br>162.8<br>132.0<br>151.2<br>171.2<br>172.2 | 189.5<br>188.8<br>222.5<br>-<br>-<br>231.6<br>-<br>224.6 |
| San Jose-Monterey<br>Los Angeles  | 137.6<br>142.0  | 139.0<br>138.0   | 207.7<br>198.2   |
| SEER MORTALITY RATESδ, 1989-93<br>REGISTRY<br>Standard 9 registries   | 26.0  | 24.9   | 52.8   |
| San Francisco-Oakland<br>Connecticut<br>Metropolitan Detroit<br>Hawaii<br>Iowa<br>New Mexico<br>Seattle-Puget Sound<br>Utah<br>Metropolitan Atlanta | 26.0<br>24.3<br>29.4<br>17.0<br>24.9<br>23.2<br>25.7<br>27.7<br>33.6          | 25.3<br>23.3<br>25.0<br>26.3<br>24.7<br>23.4<br>25.6<br>27.7<br>26.1 | 55.4<br>54.2<br>48.1<br>-<br>-<br>-<br>44.0<br>-<br>66.3 |
| San Jose-Monterey<br>Los Angeles  | 24.2<br>23.4  | 25.4<br>22.5   | 48.3<br>45.8   |
| SURVIVAL RATESO, 1986-92 REGISTRY Standard 9 registries   | 86.7<br>84.4  | 88.6<br>86.4   | 73.2<br>75.5   |
| San Francisco-Oakland<br>Connecticut<br>Metropolitan Detroit<br>Hawaii<br>Iowa<br>New Mexico<br>Seattle-Puget Sound<br>Utah<br>Metropolitan Atlanta | 84.4<br>80.7<br>83.7<br>86.0<br>85.4<br>88.8<br>95.3<br>91.3                  | 86.4<br>81.5<br>87.0<br>93.2<br>85.5<br>89.6<br>95.7<br>91.4<br>88.4 | 75.5<br>67.4<br>74.0<br>-<br>-<br>88.0<br>-<br>65.2      |

Note: San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in this table and not other tables in this section.

- § SEER Program. Incidence rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.
- $\delta$  NCHS public use tape. Mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.
- Survival rates are relative rates expressed as percents and are based on follow-up of patients through 1993.
- The standard error of the survival rate is between 5 and 10 percentage points.
- The standard error of the survival rate is greater than 10 percentage points.
- Statistic could not be calculated or populations are inadequate.

# SEER Incidence and U.S. Mortality Prostate, Under 65 Years of Age By Race

# White

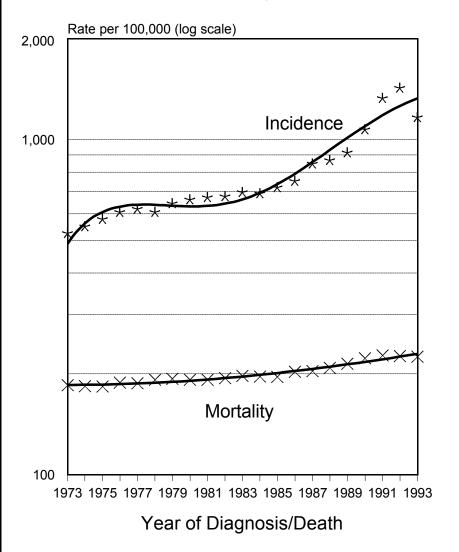


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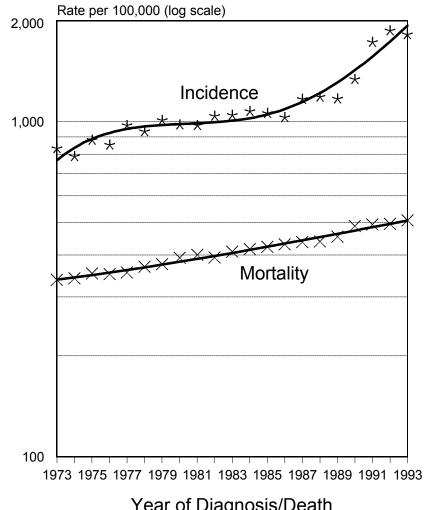


# SEER Incidence and U.S. Mortality Prostate, Ages 65 and Over By Race

# White

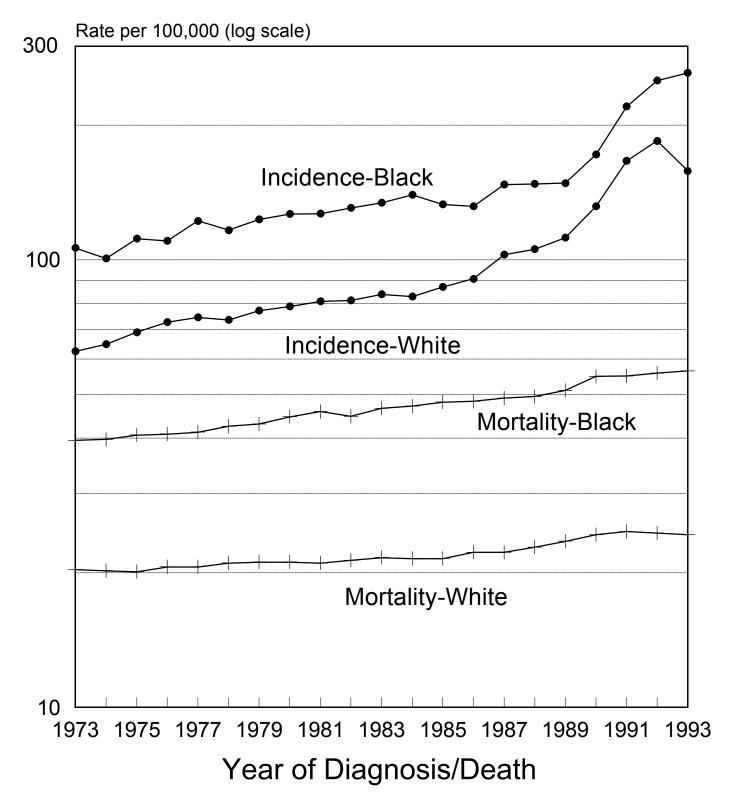


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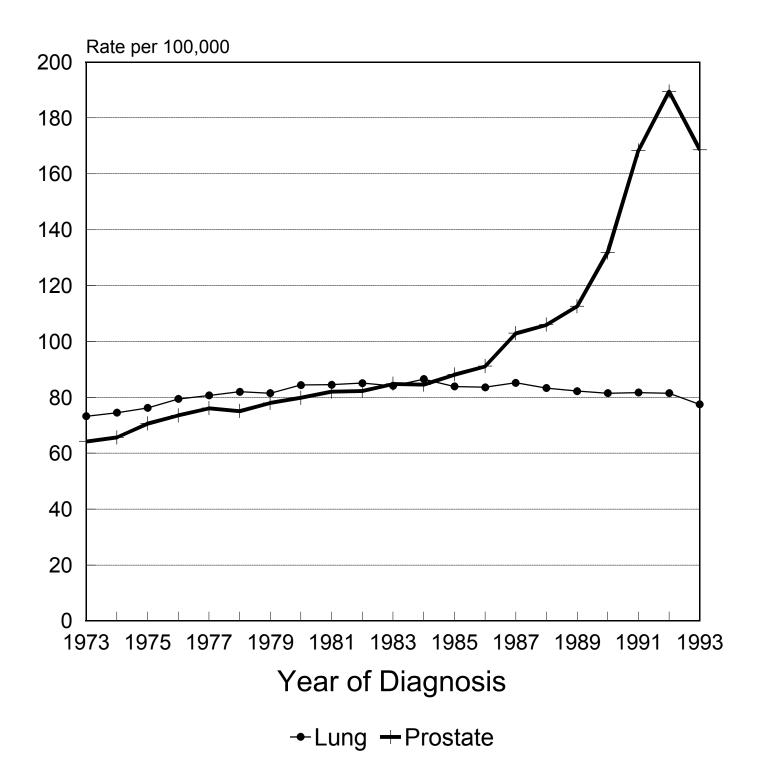
Year of Diagnosis/Death

# Cancer of the Prostate U.S. Mortality & SEER Incidence, 1973-93



Age-adjusted to 1970 Standard

# Prostate vs. Lung Cancer Incidence All Races, Males 1973-93



Age-adjusted to 1970 Standard