

Arizona Cancer Registry Data

2003-2012





Health and Wellness for all Arizonans

Doug Ducey, Governor State of Arizona

Cara M. Christ, M.D., Director Arizona Department of Health Services

MISSION

Health and Wellness for all Arizonans

PREPARED BY:

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ACKNOWLEDGEMENTS:

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Please note that Arizona Cancer Registry data changes frequently and may not be comparable to earlier reports as cases may have been added, removed or changed.





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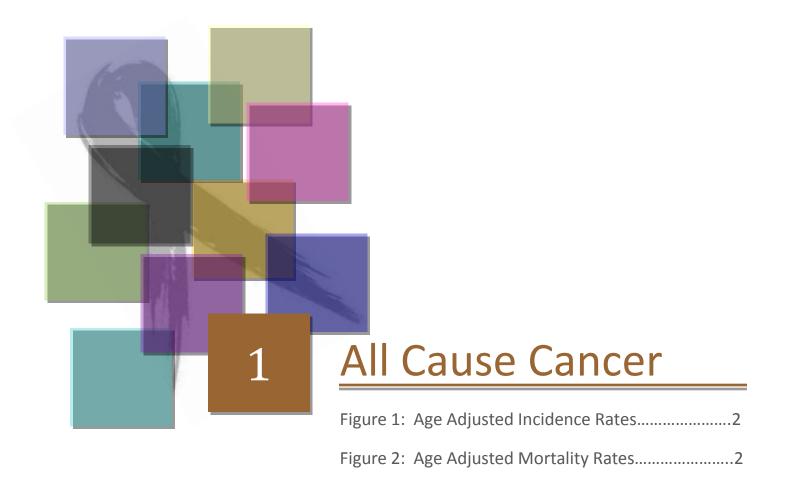
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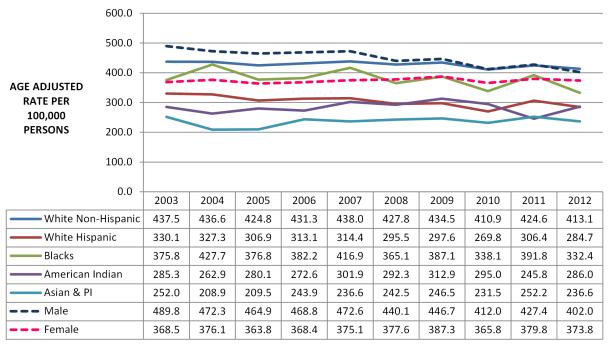
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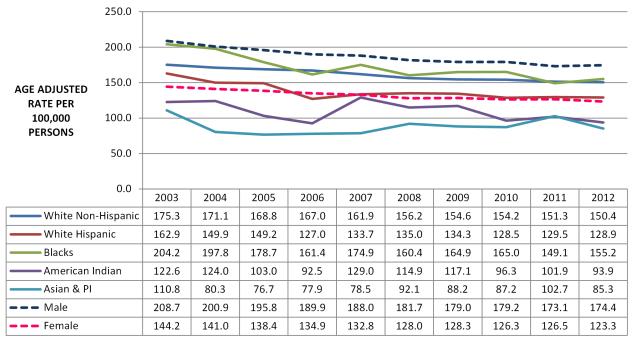
All Cause Cancer

Figure 1: Age Adjusted Incidence Rates of All Cancer Race/Ethnicity and Sex by Diagnosis Year, 2003-2012

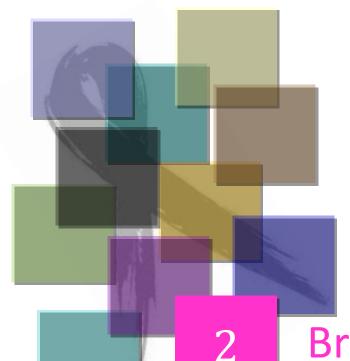


DIAGNOSIS YEAR

Figure 2: Age Adjusted All Cause Cancer Mortality Rates Race/Ethnicity and Sex by Year of Death, 2003-2012



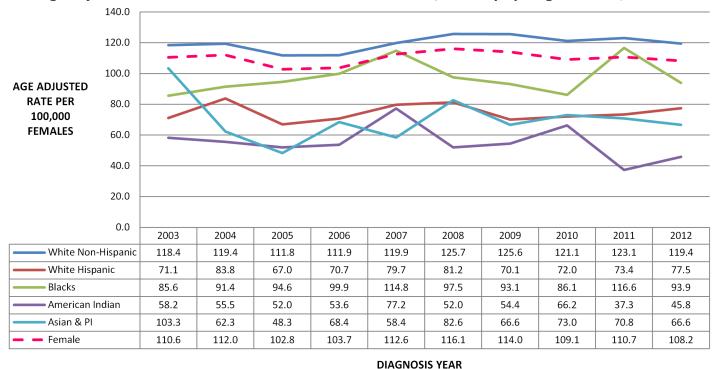




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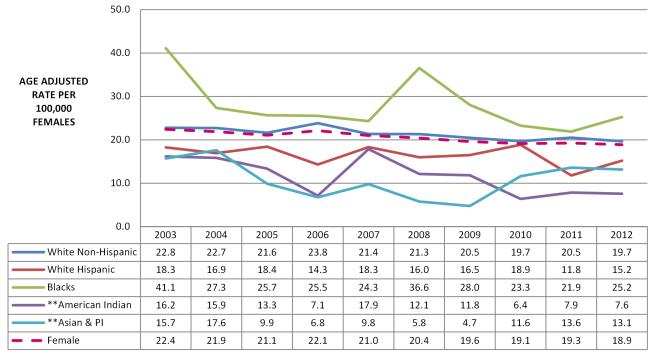


Figure 1: Age Adjusted Incidence Rates of Female Breast Cancer Race/Ethnicity by Diagnosis Year, 2003-2012



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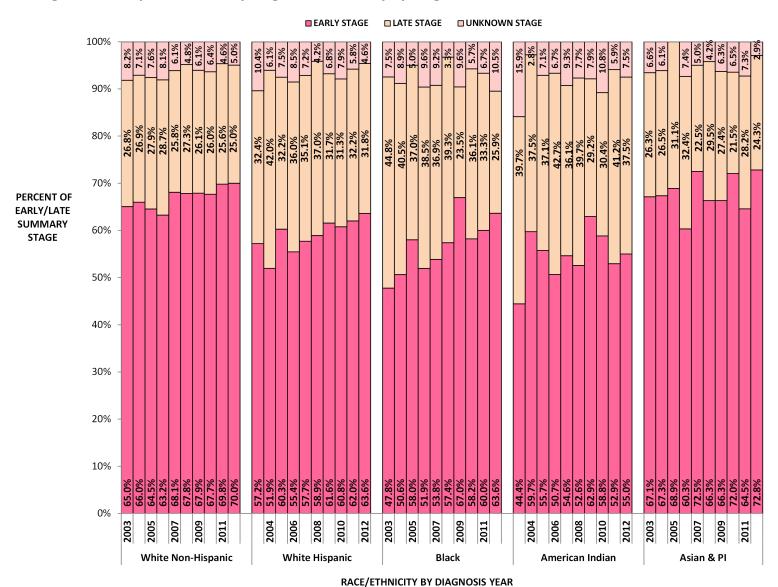
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^{**}Counts for these races are <10 for some or all years and should be used with caution

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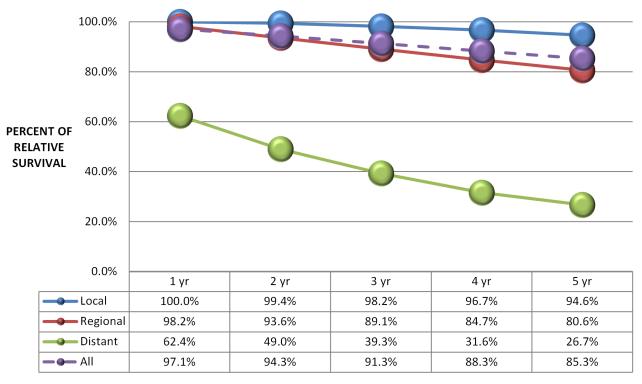


^{*}Early Stage = In Situ and Local Stage; Late Stage= Regional and Distant using SEER Summary Stage

Note: Total percentage of each stage for each year may not equal 100% due to rounding

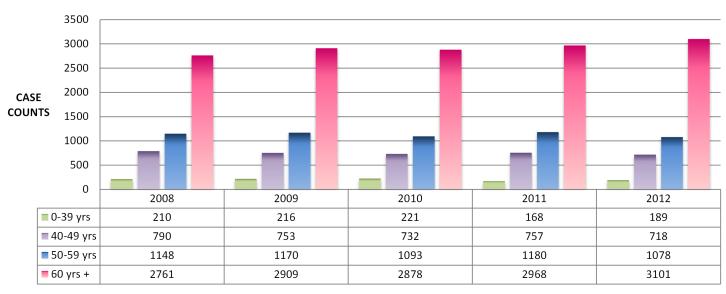
Total of 655 cases (1.4% of all cases) with an unknown or other race were excluded from this graph for all years

Figure 4: Five Year Relative Survival of Invasive Female Breast Cancer By Summary Stage for Diagnosis Years, 1995-2009



YEARS SURVIVED AFTER YEAR OF DIAGNOSIS

Figure 5: Case Count by Age Group[^] and Diagnosis Year: Female Breast Cancer, 2008-2012

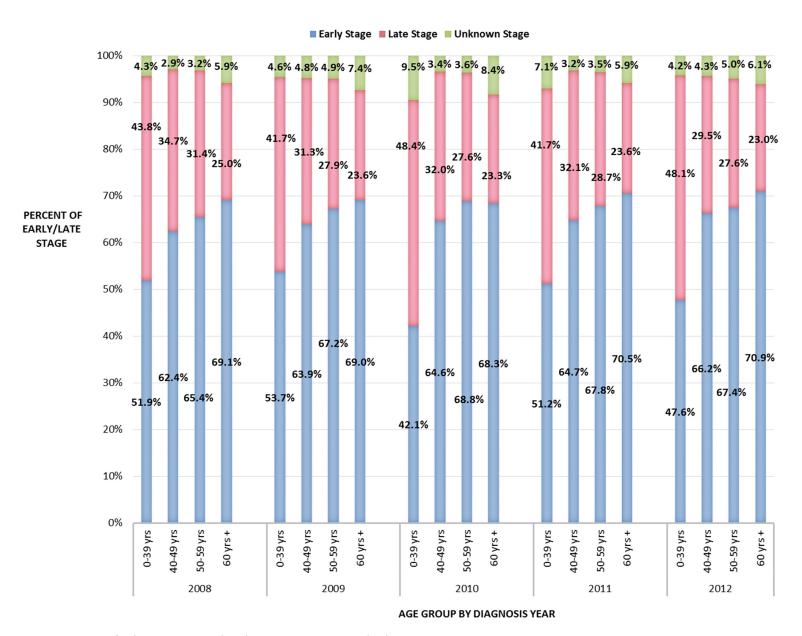


DIAGNOSIS YEAR



[^]Excludes 4 cases with an unknown age

Figure 6: *Early/Late Summary Stage by Age Group^ and Diagnosis Year: Female Breast Cancer, 2008–2012



^{*}Early Stage = In Situ and Local Stage; Late Stage= Regional and Distant using SEER Summary Stage

Note: Total percentage for each stage for each year may not equal 100% due to rounding



[^]Excludes 4 cases with an unknown age

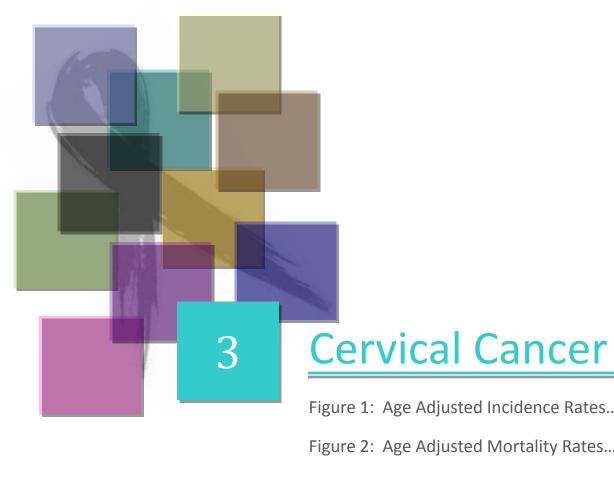
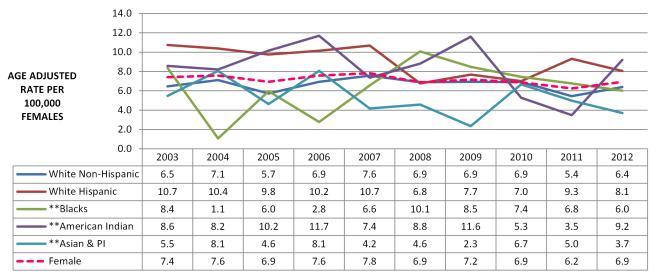


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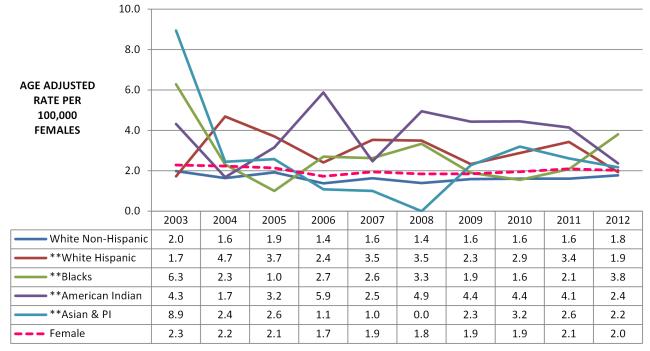
Cervical Cancer

Figure 1: Age Adjusted Cervical Cancer Incidence Rates Race/Ethnicity by Diagnosis Year, 2003-2012



DIAGNOSIS YEAR

Figure 2: Age Adjusted Cervical Cancer Mortality Rates Race/Ethnicity by Year of Death, 2003-2012



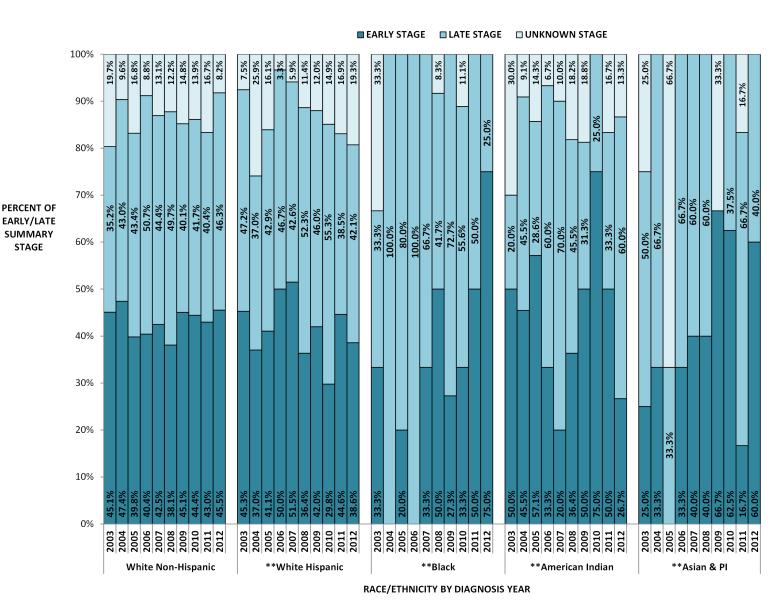


^{**} Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total of 36 cases (1.7% of all cases) with an unknown or other race were excluded from this graph for all years

^{**} Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total of 2 cases (0.3% of all cases) with an unknown or other race were excluded from this graph for all years

Cervical Cancer

Figure 3: *Early/Late Summary Stage Race/Ethnicity by Diagnosis Year: Cervical Cancer, 2003-2012



^{*}Early Stage = In Situ and Local Stage; Late Stage= Regional and Distant using SEER Summary Stage

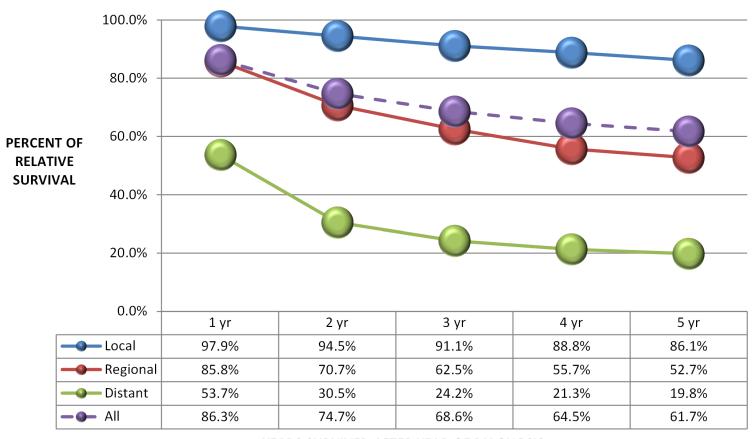
Total of 36 cases (1.7% of all cases) with an unknown or other race were excluded from this graph for all years



^{**}Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total percentage of each stage for each year may not equal 100% due to rounding

Cervical Cancer

Figure 4: Five Year Relative Survival of Invasive Cervical Cancer by Summary Stage for Diagnosis Years, 1995-2009



YEARS SURVIVED AFTER YEAR OF DIAGNOSIS



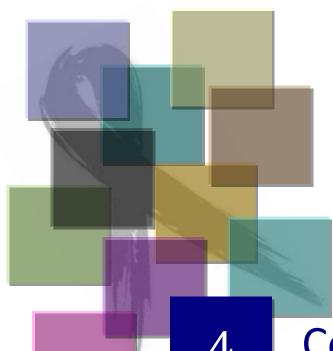
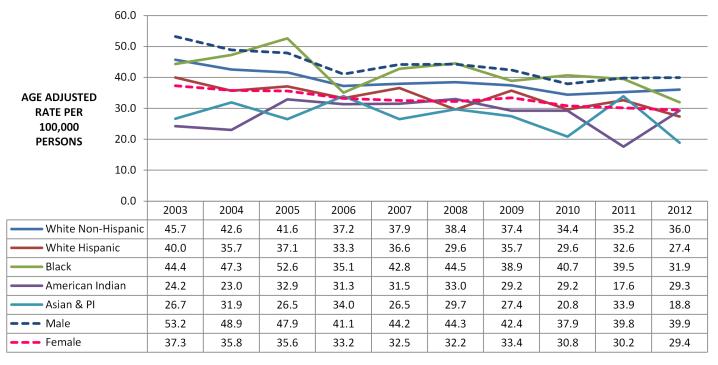


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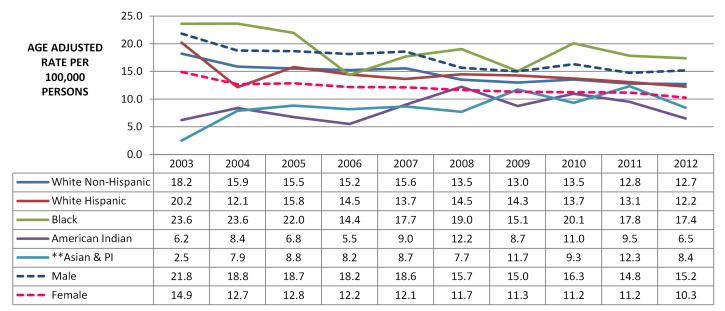


Figure 1: Age Adjusted Colorectal Cancer Incidence Rates/Ethnicity and Sex by Diagnosis Year, 2003-2012



DIAGNOSIS YEAR

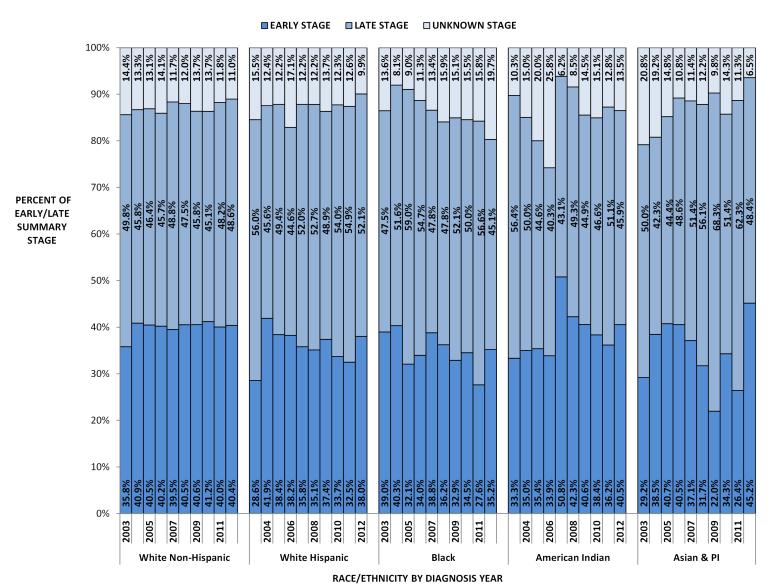
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^{**}Counts for these races are <10 for some or all years, therefore, rates are highly unstable and should be used with caution

Figure 3: *Early/Late Summary Stage Race/Ethnicity by Diagnosis Year: Colorectal Cancer, 2003-2012



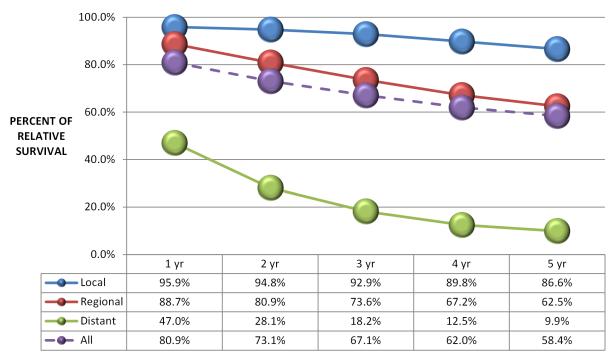
*Early Stage = In Situ and Local Stage; Late Stage= Regional and Distant using SEER Summary Stage

Note: Total percentage of each stage for each year may not equal 100% due to rounding

Total of 289 cases (1.1% of all cases) with an unknown or other race were excluded from this graph for all years

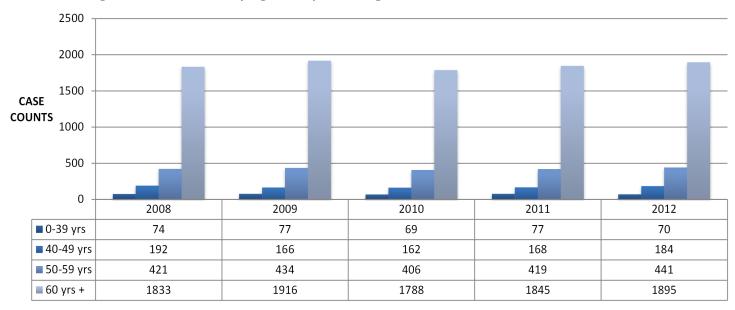


Figure 4: Five Year Relative Survival of Invasive Colorectal Cancer by Summary Stage for Diagnosis Years, 1995-2009



YEARS SURVIVED AFTER YEAR OF DIAGNOSIS

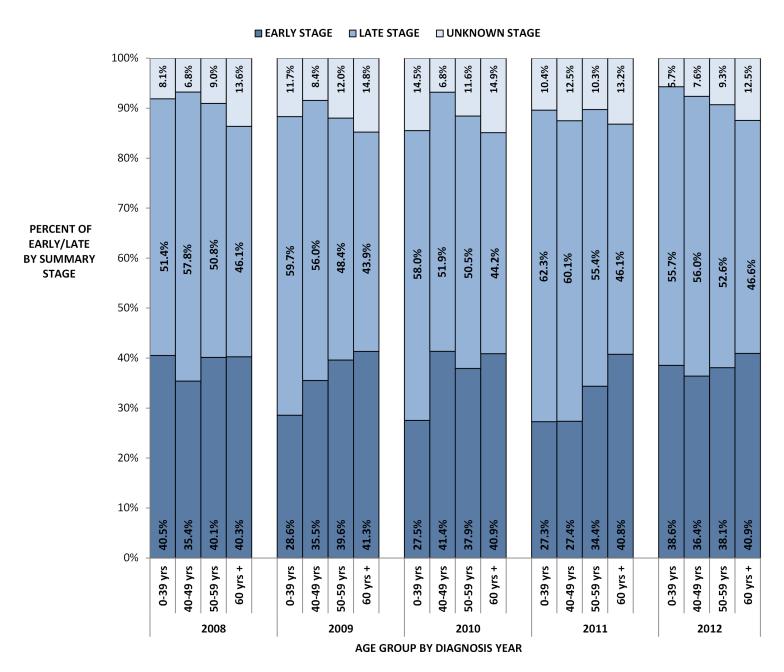
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DIAGNOSIS YEAR



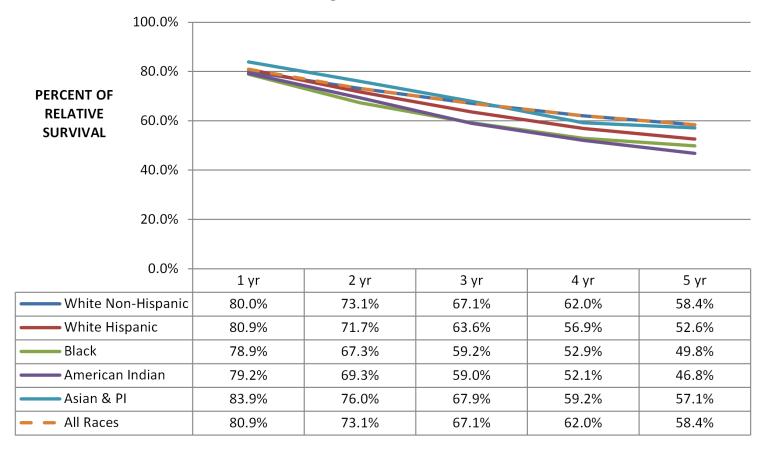
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^{*}Early Stage = In Situ and Local Stage; Late Stage= Regional and Distant using SEER Summary Stage Note: Total percentage of each stage for each year may not equal 100% due to rounding



Figure 7: Five Year Relative Survival of Invasive Colorectal Cancer by Race/Ethnicity for Diagnosis Years, 1995-2009



YEARS SURVIVED AFTER YEAR OF DIAGNOSIS



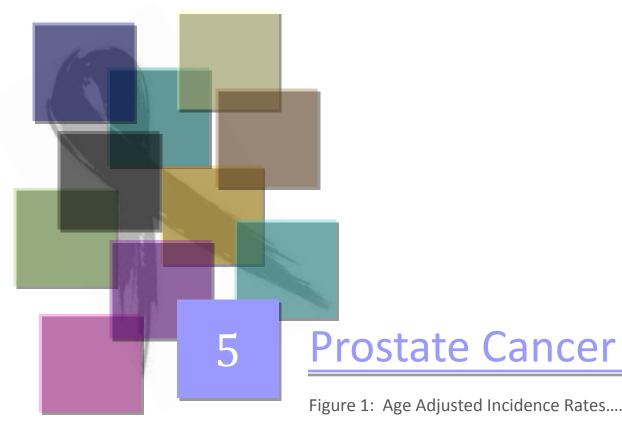
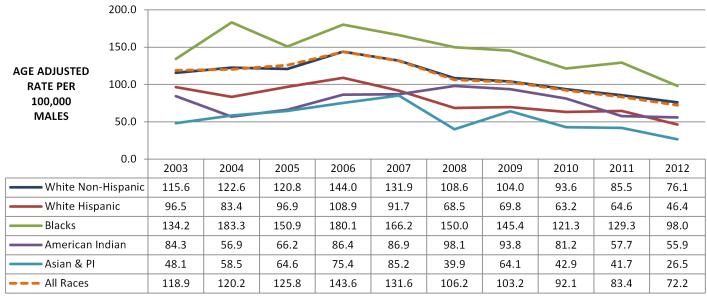


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Prostate Cancer

Figure 1: Age Adjusted Prostate Incidence Rates Race/Ethnicity by Diagnosis Year, 2003-2012

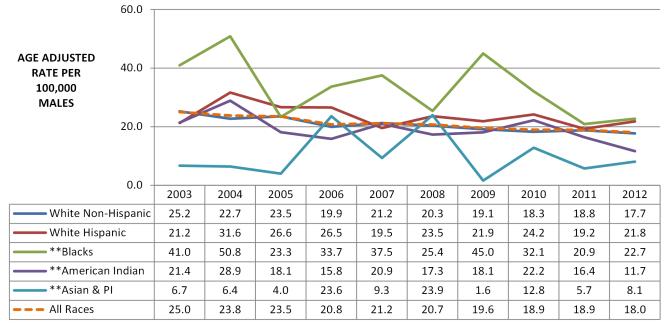


DIAGNOSIS YEAR

Note: Total of 1,472 cases (4.3% of all cases) with an unknown or other race were excluded from this graph for all years

When reviewing the rates presented, the reader should keep in mind that Arizona rates are most likely higher than shown as not all early stage prostate cancer cases have been reported

Figure 2: Age Adjusted Prostate Cancer Mortality Rates Race/Ethnicity by Year of Death, 2003-2012

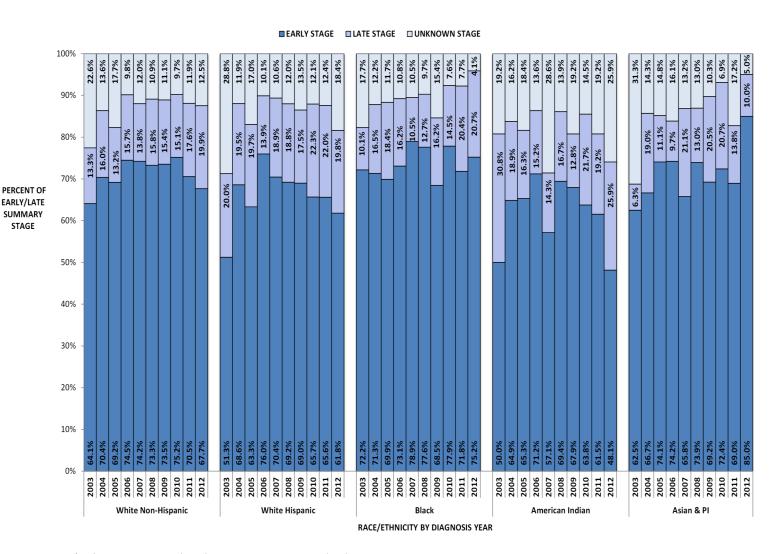




^{**} Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Notes: Total of 16 cases (0.3% of all cases) with an unknown or other race were excluded from this graph for all years

Prostate Cancer

Figure 3: Early/Late Summary Stage Race/Ethnicity by Diagnosis Year: Prostate Cancer, 2003-2012



^{*}Early Stage = In Situ and Local Stage; Late Stage= Regional and Distant using SEER Summary Stage

Notes: Total percentage of each stage for each year may not equal 100% due to rounding

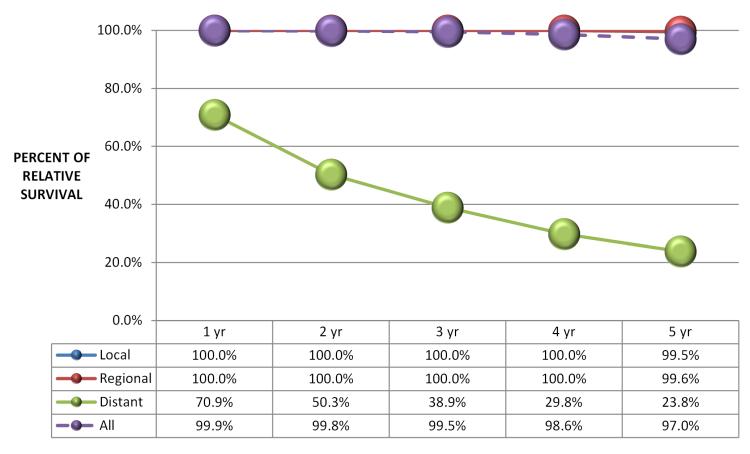
Total of 1,472 cases (4.3% of all cases) with an unknown or other race were excluded from this graph for all years

When reviewing the percentages presented, the reader should keep in mind that prostate cancer percentages may be different than shown as not all early stage prostate cancer cases have been reported



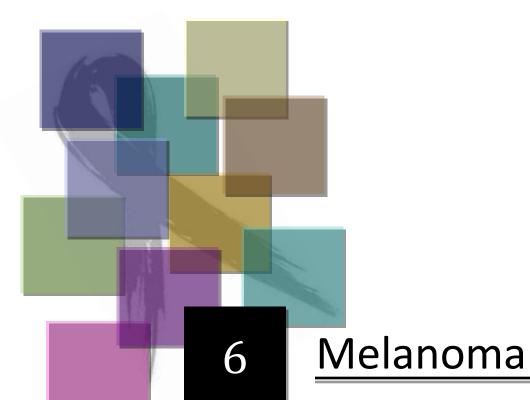
Prostate Cancer

Figure 4: Five Year Relative Survival of Invasive Prostate Cancer by Summary Stage for Diagnosis Years, 1995-2009



YEARS SURVIVED AFTER YEAR OF DIAGNOSIS



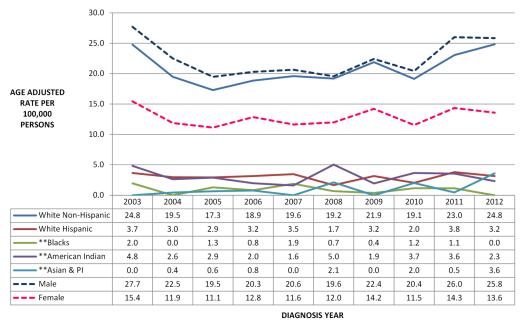


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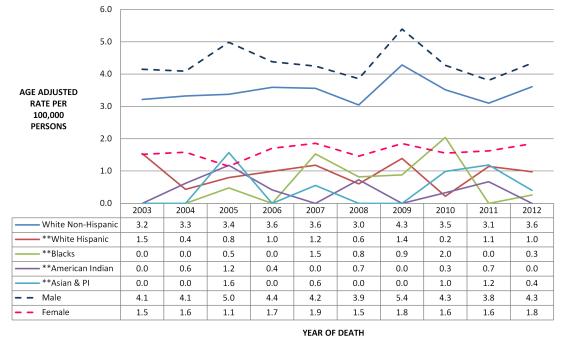
Melanoma

Figure 1: Age Adjusted Melanoma Incidence Rates Race/Ethnicity and Sex by Diagnosis Year, 2003-2012



^{**} Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total of 707 cases (6.4% of all cases) with an unknown or other race were excluded from this graph for all years

Figure 2: Age Adjusted Melanoma Mortality Rates Race/Ethnicity and Sex by Year of Death, 2003-2012

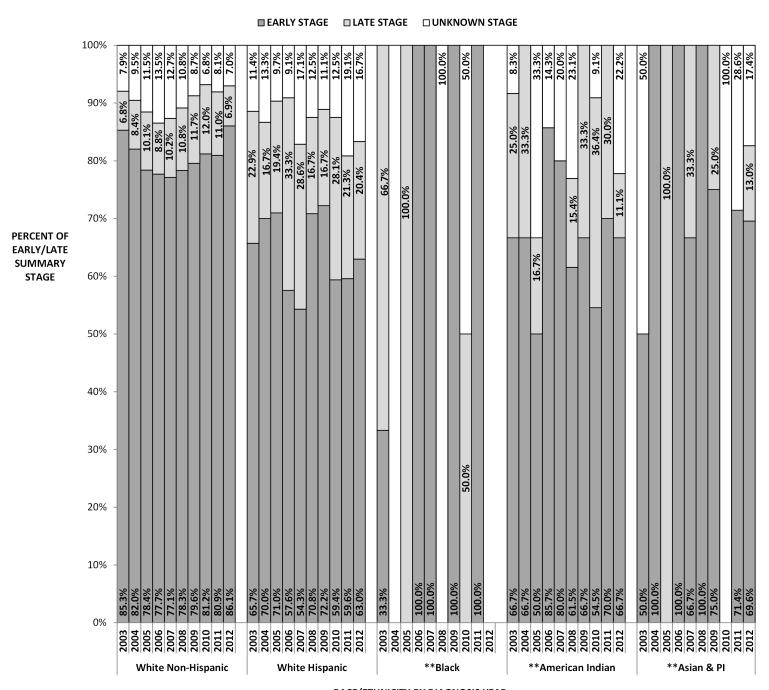


** Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total of 6 cases (0.3% of all cases) with an unknown or other race were excluded from this graph for all years



Melanoma

Figure 3: *Early/Late Summary Stage Race/Ethnicity by Diagnosis Year: Melanoma, 2003-2012



RACE/ETHNICITY BY DIAGNOSIS YEAR

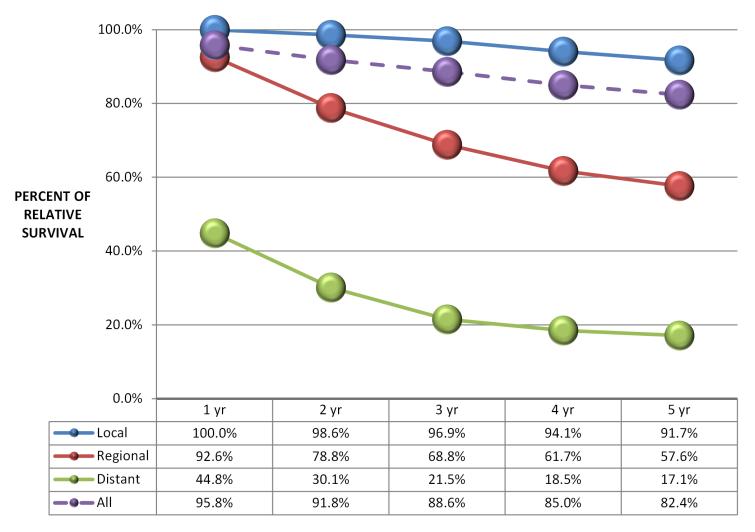


^{*} Early Stage = In Situ and Local Stage; Late Stage= Regional and Distant using SEER Summary Stage

^{**} Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total of 707 cases (6.4% of all cases) with an unknown or other race were excluded from this graph for all years

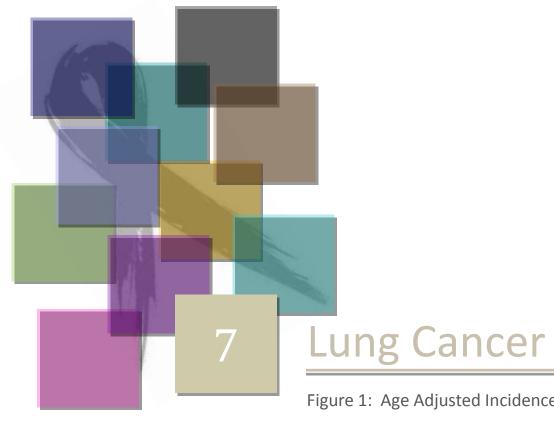
Melanoma

Figure 4: Five Year Relative Survival of Invasive Melanoma by Summary Stage for Diagnosis Years, 1995-2009



YEARS SURVIVED AFTER YEAR OF DIAGNOSIS



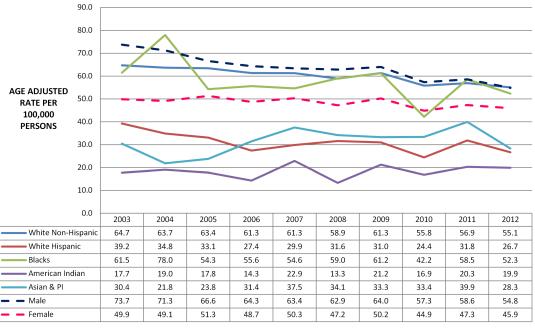


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Lung Cancer

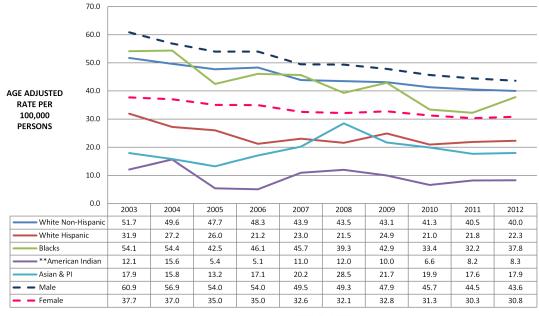
Figure 1: Age Adjusted Lung Cancer Incidence Rates Race/Ethnicity and Sex by Diagnosis Year, 2003-2012



DIAGNOSIS YEAR

Note: Total of 137 cases (0.4% of all cases) with an unknown or other race were excluded from this graph for all years

Figure 2: Age Adjusted Lung Cancer Mortality Rates Race/Ethnicity and Sex by Diagnosis Year, 2003-2012

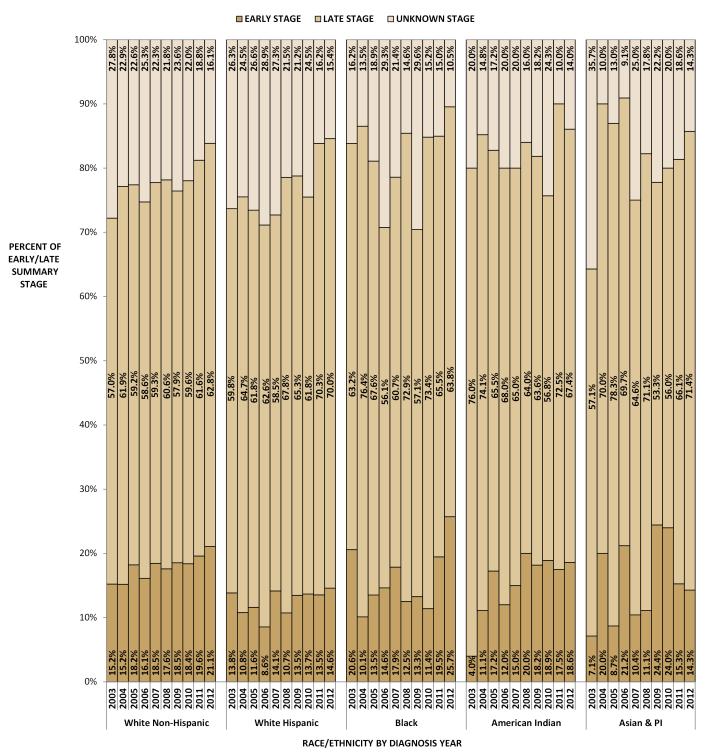




^{**} Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total of 79 cases (0.3% of all cases) with an unknown or other race were excluded from this graph for all years

Lung Cancer

Figure 3: *Early/Late Summary Stage Race/Ethnicity by Diagnosis Year: Lung Cancer 2003-2012

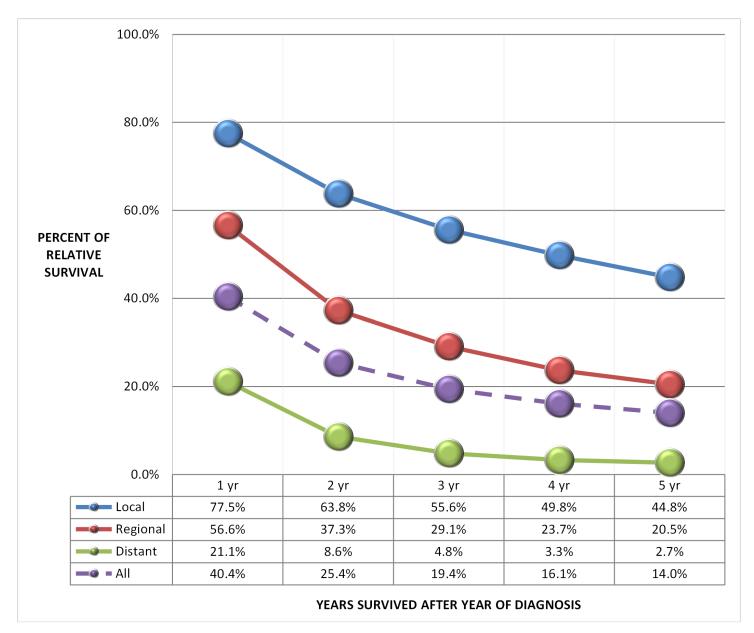


^{*} Early Stage = In Situ and Local Stage; Late Stage= Regional and Distant using SEER Summary Stage
Note: Total of 137 cases (0.4% of all cases) with an unknown or other race were excluded from this graph for all years



Lung Cancer

Figure 4: Five Year Relative Survival of Invasive Lung Cancer by Summary Stage for Diagnosis Years, 1995-







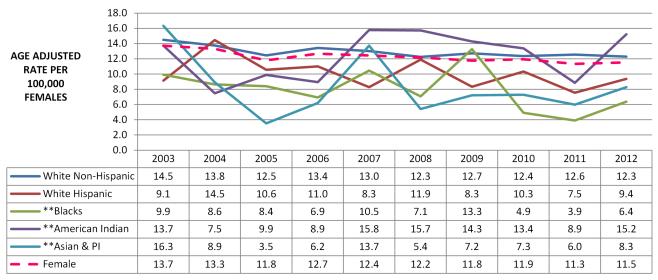
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Figure 1:	Age Adjusted Incidence Rates	31
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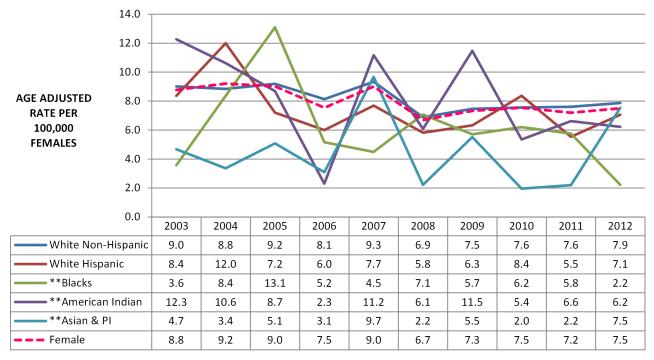
Ovarian Cancer

Figure 1: Age Adjusted Ovarian Cancer Incidence Rates Race/Ethnicity and Diagnosis Year, 2003-2012



DIAGNOSIS YEAR

Figure 2: Age Adjusted Ovarian Cancer Mortality Rates Race/Ethnicity by Year of Death, 2003-2012



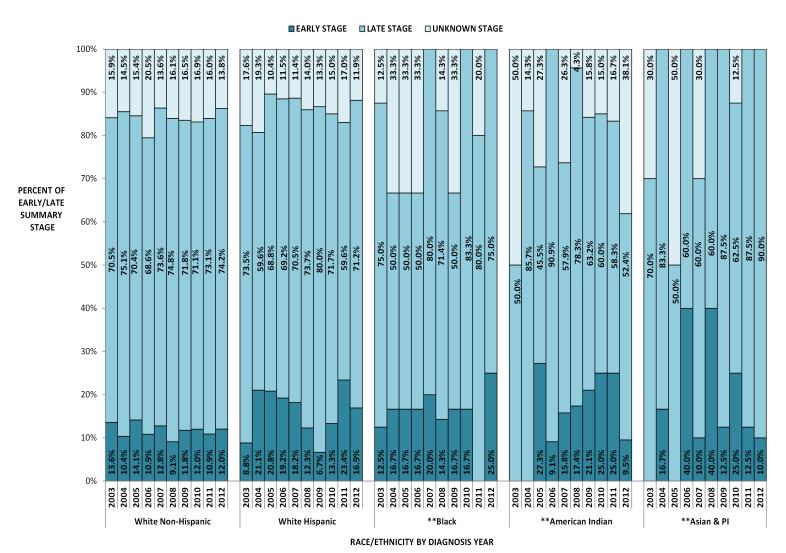


^{**} Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total of 24 cases (0.6% of all cases) with an unknown or other race were excluded from this graph for all years

^{**} Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total of 9 cases (0.3% of all cases) with an unknown or other race were excluded from this graph for all years

Ovarian Cancer

Figure 3: *Early/Late Summary Stage Race/Ethnicity by Diagnosis Year: Ovarian Cancer 2003-2012



^{*}Early Stage = In Situ and Local Stage; Late Stage= Regional and Distant using SEER Summary Stage



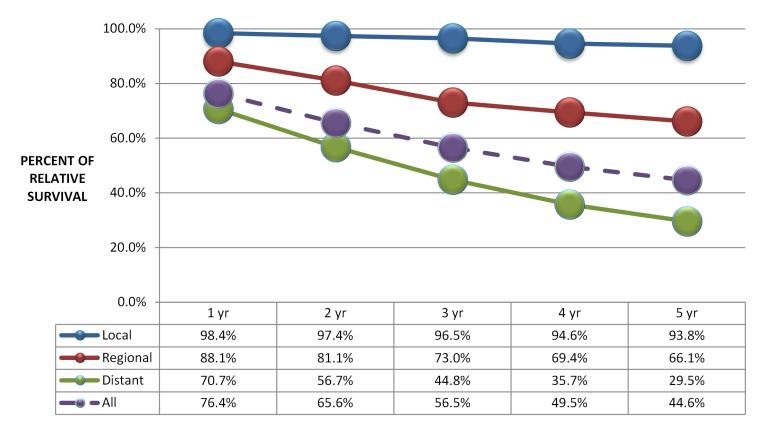
^{**}Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution

Note: Total percentage of each stage for each year may not equal 100% due to rounding

Total of 24 cases (0.6% of all cases) with an unknown or other race were excluded from this graph for all years

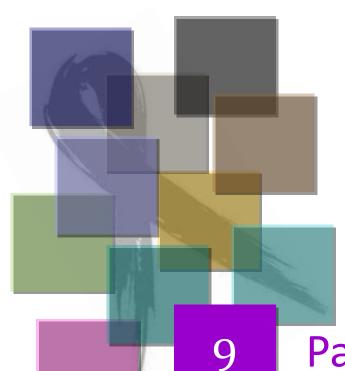
Ovarian Cancer

Figure 4: Five Year Relative Survival of Invasive Ovarian Cancer by Summary Stage for Diagnosis Years, 1995-2009



YEARS SURVIVED AFTER YEAR OF DIAGNOSIS





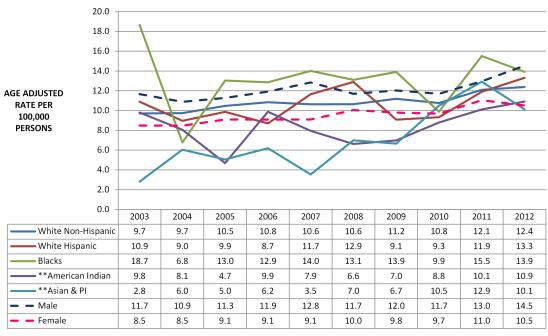
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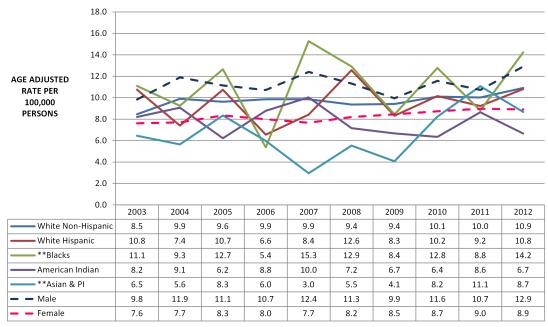
Pancreatic Cancer

Figure 1: Age Adjusted Pancreatic Cancer Incidence Rates Race/Ethnicity and Sex by Diagnosis Year, 2003-2012



DIAGNOSIS YEAR

Figure 2: Age Adjusted Pancreatic Cancer Mortality Rates Race/Ethnicity and Sex by Year of Death, 2003-2012



YEAR OF DEATH

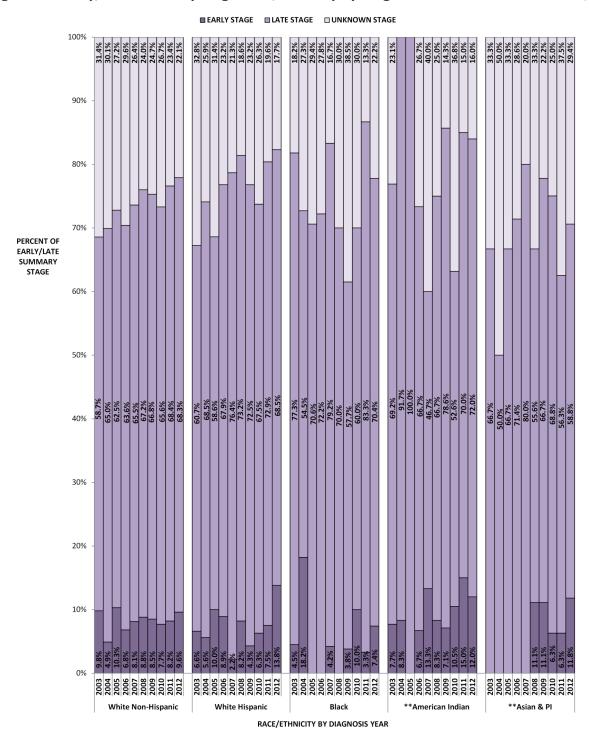


^{**} Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total of 31 cases (0.4% of all cases) with an unknown or other race were excluded from this graph for all years

^{**} Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total of 9 cases (0.3% of all cases) with an unknown or other race were excluded from this graph for all years

Pancreatic Cancer

Figure 3: *Early/Late Summary Stage Race/Ethnicity by Diagnosis Year: Pancreatic Cancer, 2003-2012



^{*}Early Stage = In Situ and Local Stage; Late Stage= Regional and Distant using SEER Summary Stage

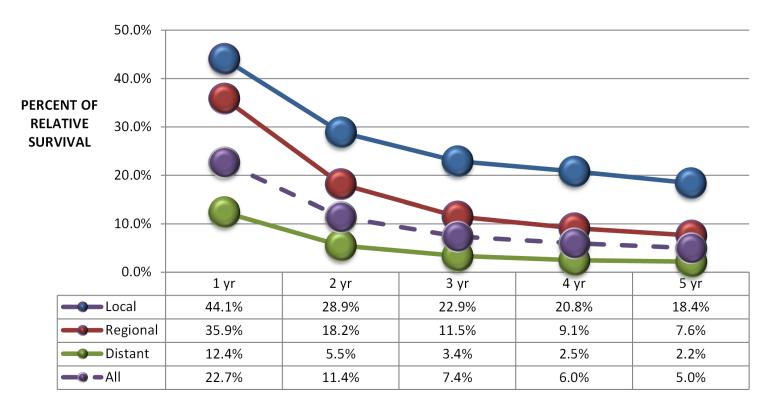
Total of 31 cases (0.4% of all cases) with an unknown or other race were excluded from this graph for all years



^{**}Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total percentage of each stage for each year may not equal 100% due to rounding

Pancreatic Cancer

Figure 4: Five Year Relative Survival of Invasive Pancreatic Cancer by Summary Stage for Diagnosis Years, 1995-2009



YEARS SURVIVED AFTER YEAR OF DIAGNOSIS



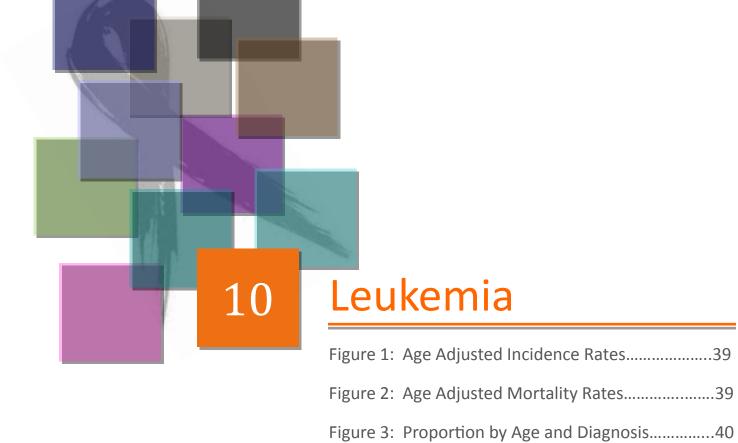




Figure 4: Survival by Summary Stage......40

**Asian & PI

Male

Female

3.6

12.9

8.9

4.2

11.7

8.3

18.0 16.0 14.0 12.0 AGE ADJUSTED RATE PER 10.0 100,000 8.0 **PERSONS** 6.0 4.0 2.0 0.0 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 White Non-Hispanic 11.1 9.7 10.0 11.6 10.3 10.2 10.8 11.0 13.2 12.8 White Hispanic 9.9 9.3 7.2 7.4 8.0 7.1 8.9 7.6 10.3 11.3 **Blacks 7.0 10.0 15.0 9.1 6.1 12.5 7.9 6.0 - American Indian 7.0 7.4 8.2 4.5 7.2 6.6 5.9 6.3 9.7 8.4

Figure 1: Age Adjusted Leukemia Incidence Rates Race/Ethnicity and Sex by Diagnosis Year, 2003-2012

DIAGNOSIS YEAR

7.5

11.6

5.5

13.3

8.7

7.9

12.6

6.2

16.3

9.2

6.3

14.8

10.4

5.4

12.7

5.3

12.0

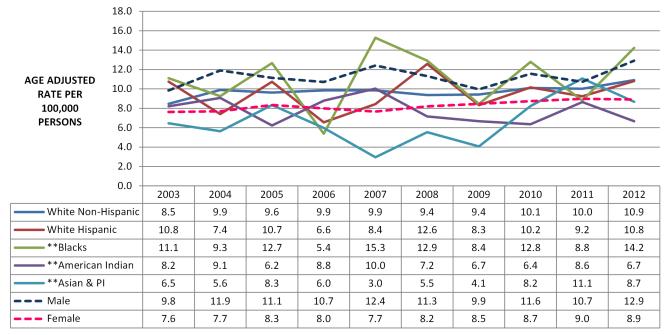
7.6

Figure 2: Age Adjusted Leukemia Mortality Rates Race/Ethnicity and Sex by Year of Death, 2003-2012

5.7

14.5

8.8



YEAR OF DEATH



^{**} Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total of 139 cases (2.0% of all cases) with an unknown or other race were excluded from this graph for all years

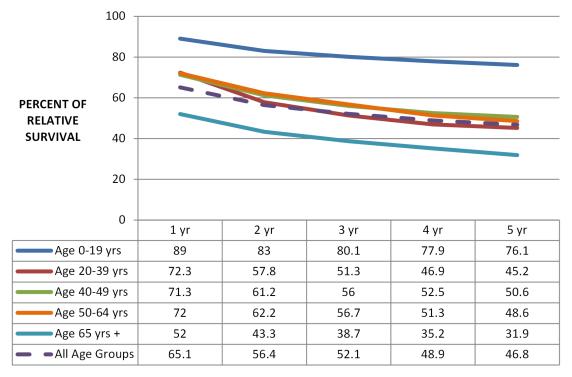
^{**} Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total of 13 cases (0.3% of all cases) with an unknown or other race were excluded from this graph for all years

10 Leukemia

100% 90% 80% **51.1%** AGE **52.8**% **53.3**% 53.3% 53.8% **52.6**% **53.7**% **56.7**% **58.7**% 70% 59.3% GROUP 60% ■ 65 yrs + ■ 50-64 yrs 50% ■ 40-49 yrs 40% 17.8% **18.2**% 17.4% 21.6% 21.2% **19.4**% 21.6% ■ 20-39 yrs **18.2**% **17.1**% **17.9**% 30% ■ 0-19 yrs 6.7% 6.1% 8.1% 6.4% 5.7% 6.3% 6.4% 8.0% 20% 6.9% 5.4% 7.4% 9.1% 7.1% 7.5% 8.9% 8.1% 7.5% **7.5**% **5.4**% 8.0% 10% 15.1% 14.5% L4.3% 13.3% **11.3**% 11.1% 11.6% **10.8**% **10.6**% 9.1% 0% 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 YEAR OF DIAGNOSIS

Figure 3: Proportion of Leukemia Diagnosis by Age Group and Diagnosis Year, 2003-2012

Figure 4: Five Year Relative Survival of Leukemia by Age Group for Diagnosis Years, 1995-2009



YEARS SURVIVED AFTER DIAGNOSIS

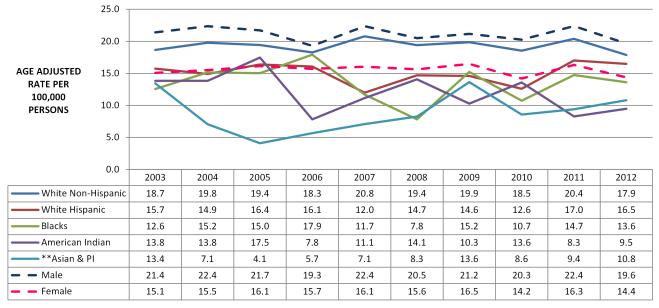




igure 1:	Age Adjusted Incidence Rates	42
igure 2:	Age Adjusted Mortality Rates	.42
igure 3:	Stage at Diagnosis by Race/Ethnicity	.43
igure 1.	Survival by Summary Stage	1/

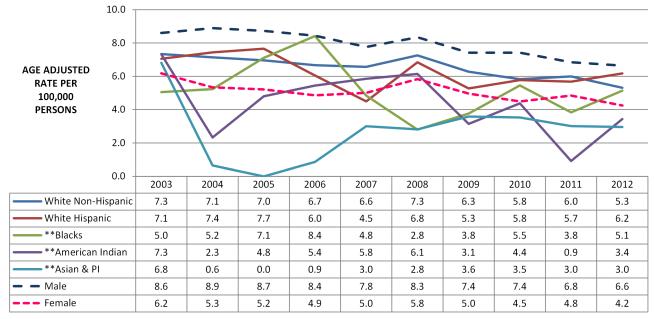


Figure 1: Age Adjusted Lymphoma Incidence Rates Race/Ethnicity and Sex by Diagnosis Year, 2003-2012



DIAGNOSIS YEAR

Figure 2: Age Adjusted Lymphoma Mortality Rates Race/Ethnicity and Sex by Year of Death, 2003-2012



YEAR OF DEATH

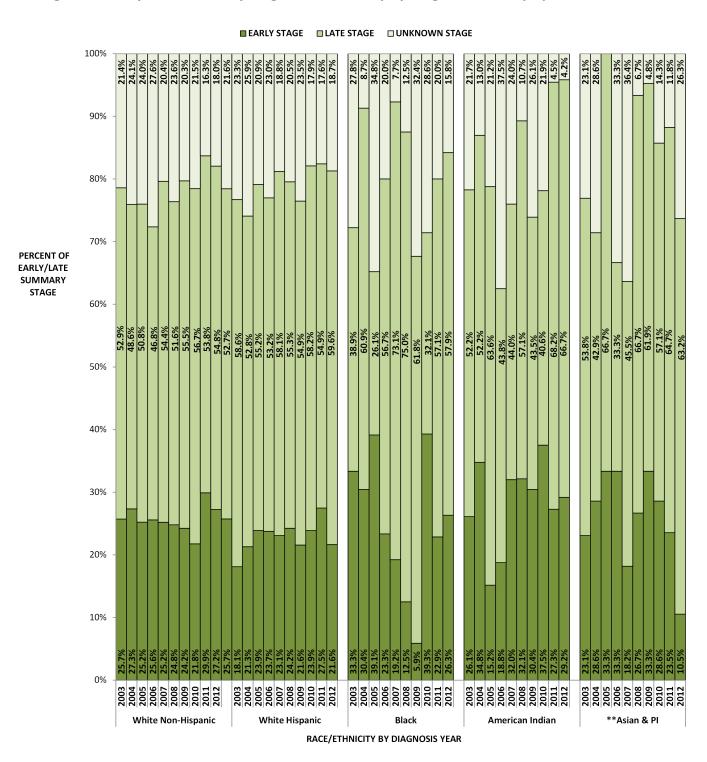


^{**} Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total of 187 cases (1.6% of all cases) with an unknown or other race were excluded from this graph for all years

^{**} Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution Note: Total of 14 cases (0.3% of all cases) with an unknown or other race were excluded from this graph for all years

Lymphoma

Figure 3: *Early/Late Summary Stage Race/Ethnicity by Diagnosis Year: Lymphoma, 2003-2012



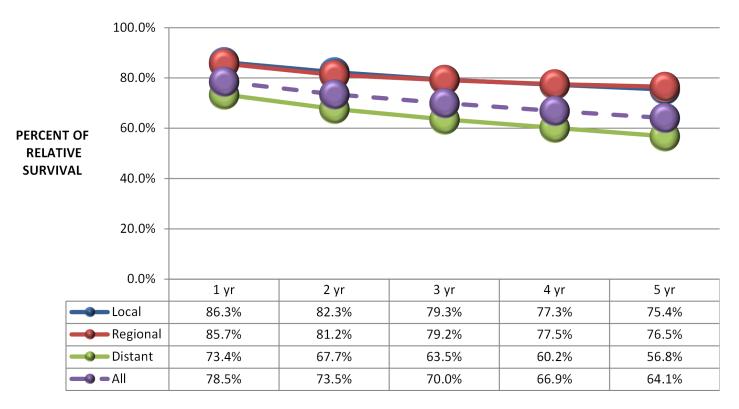
^{*}Early Stage = In Situ and Local Stage; Late Stage= Regional and Distant using SEER Summary Stage



^{**}Counts for these races are <10 for some or all years, therefore, rates are highly unstable should be used with caution

Lymphoma

Figure 4: Five Year Relative Survival of Lymphoma by Summary Stage for Diagnosis Years, 1995-2009



YEARS SURVIVED AFTER YEAR OF DIAGNOSIS





Arizona Cancer Registry

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