

Predictors of the QOL & Burden of Family Caregivers Across Different Trajectories of Illness

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Overview

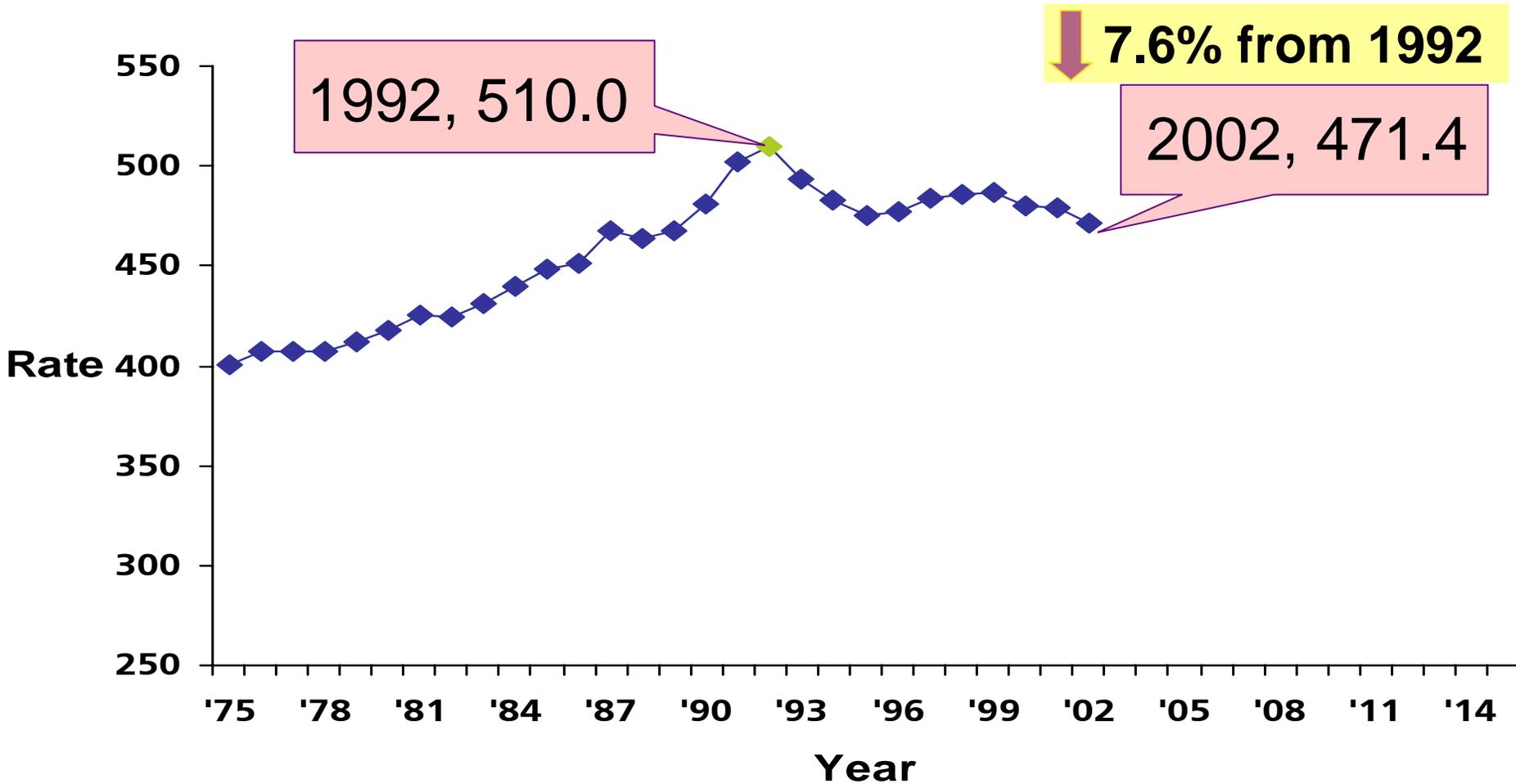
- ❖ **Cancer Facts**
- ❖ **ACS National Quality of Life Survey
for Caregivers**
- ❖ **Limitations and Conclusions**



Cancer Facts

Cancer Incidence

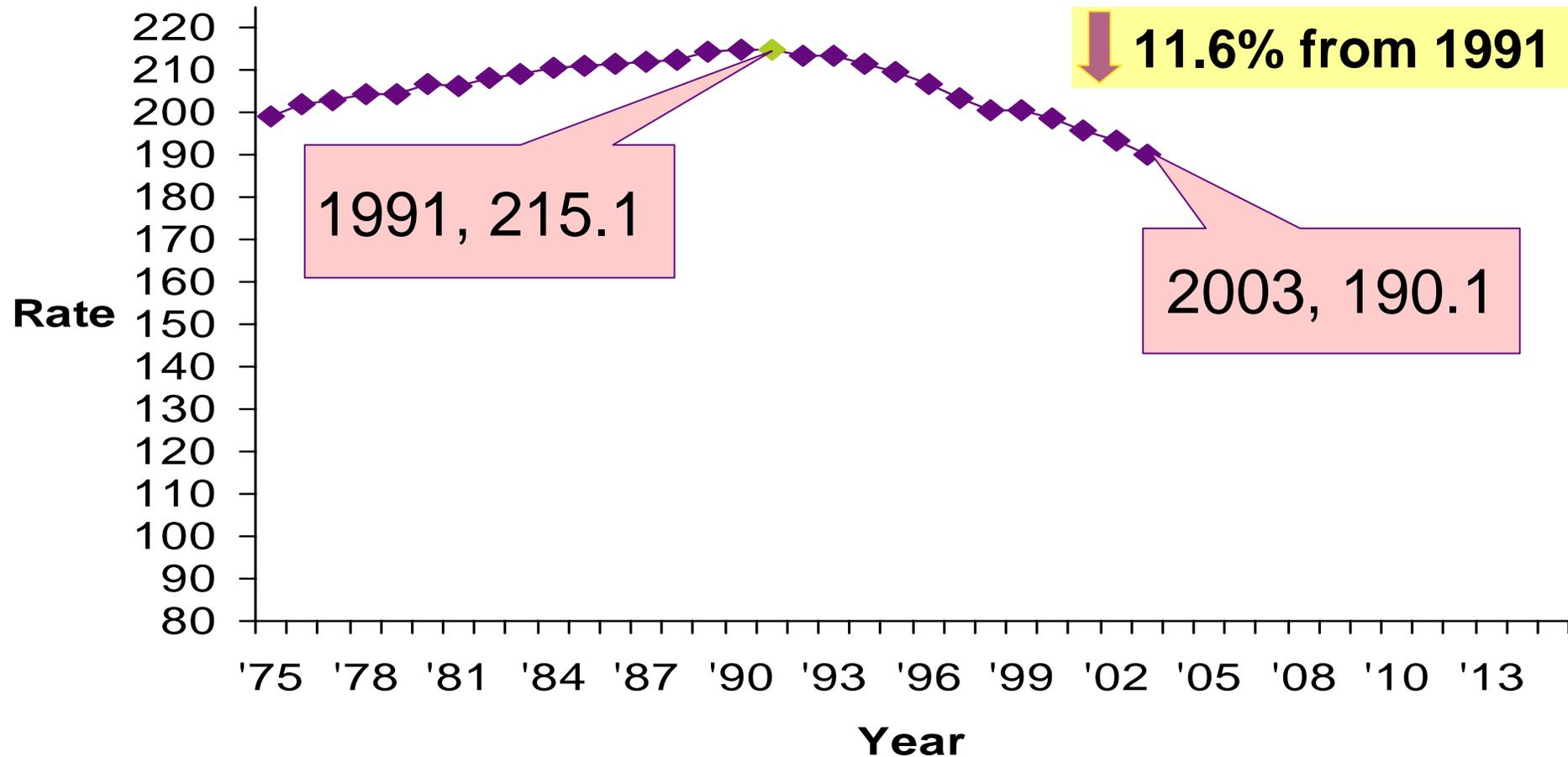
All Sites, Males and Females



Incidence and mortality rates per 100,000 and age-adjusted to 2000 US standard population
SEER Cancer Statistics Review 1975-2002.

Cancer Mortality

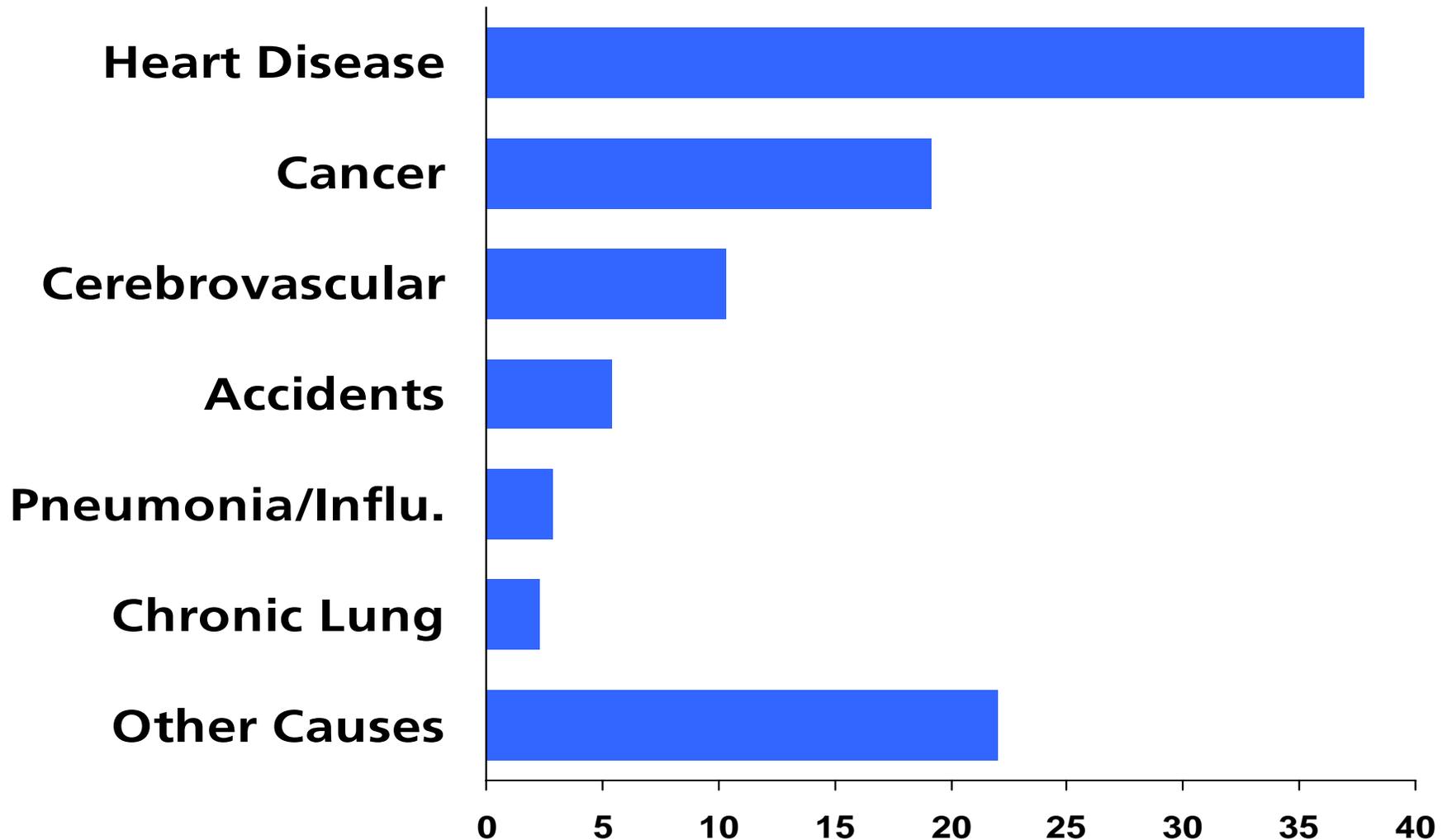
All Sites, Males and Females



Incidence and mortality rates per 100,000 and age-adjusted to 2000 US standard population
SEER Cancer Statistics Review 1975-2002.

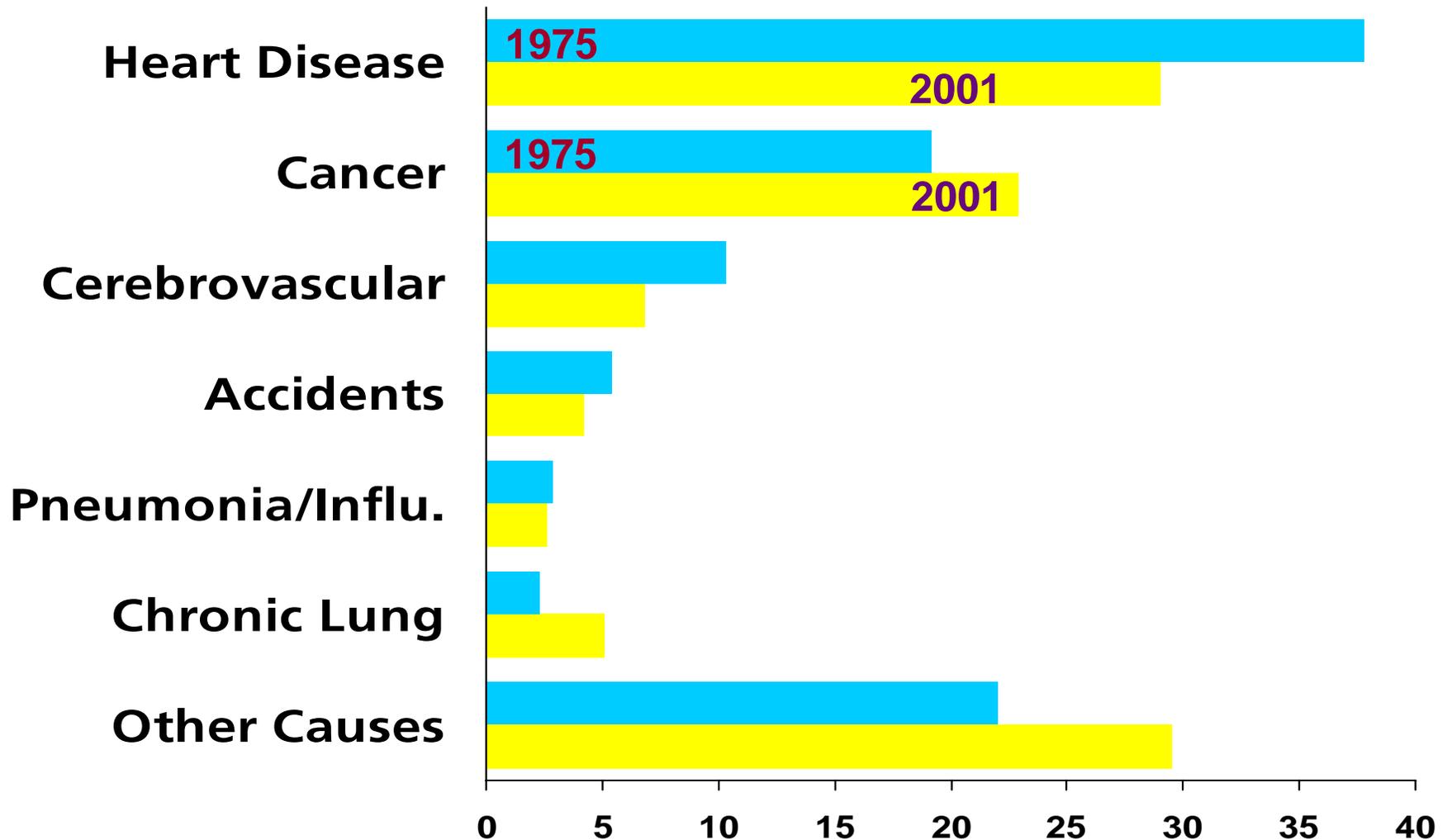
Leading Causes of Death in US

Percent of All Causes of Death, 1975

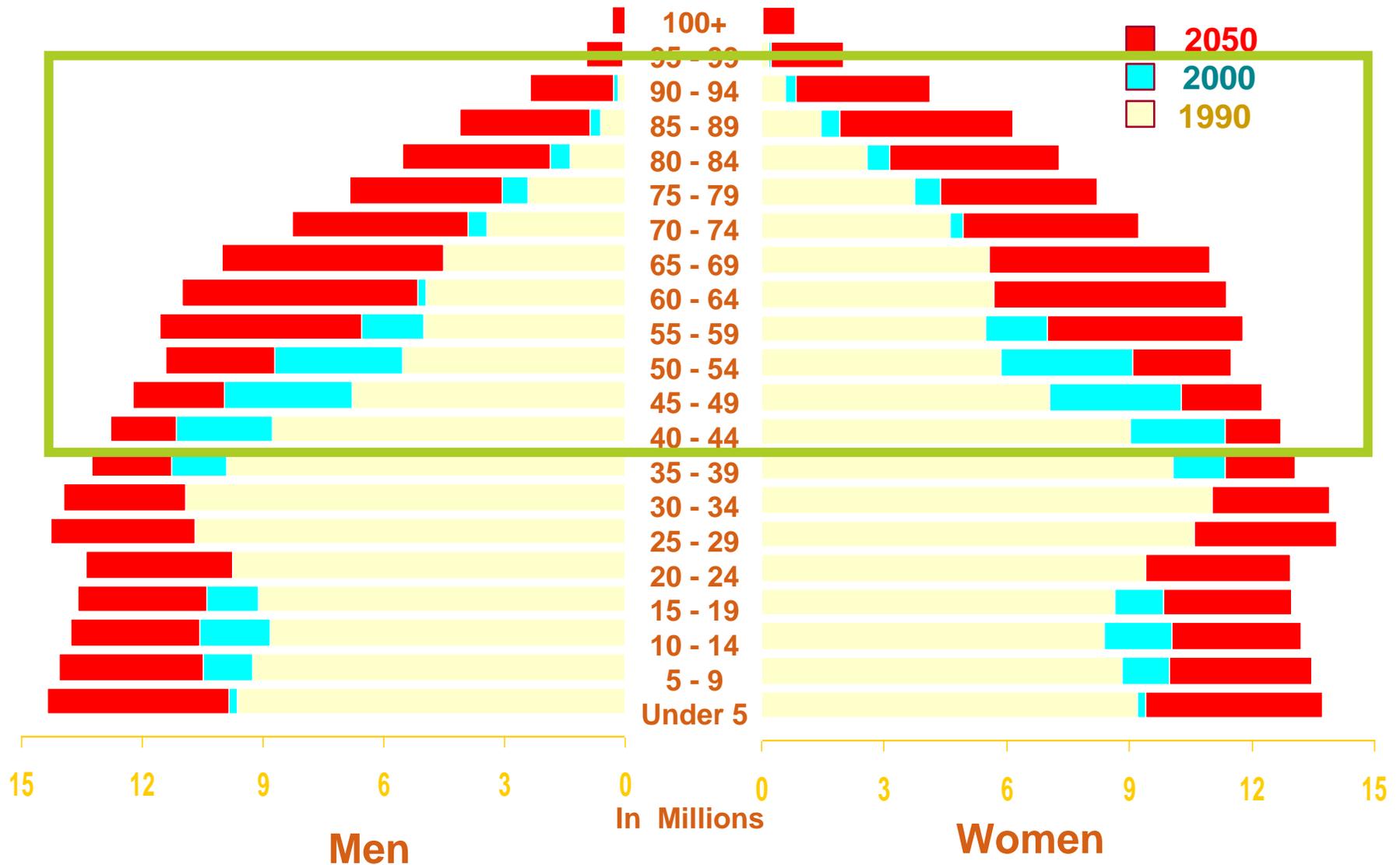


Leading Causes of Death in US

Percent of All Causes of Death, 1975 vs 2001

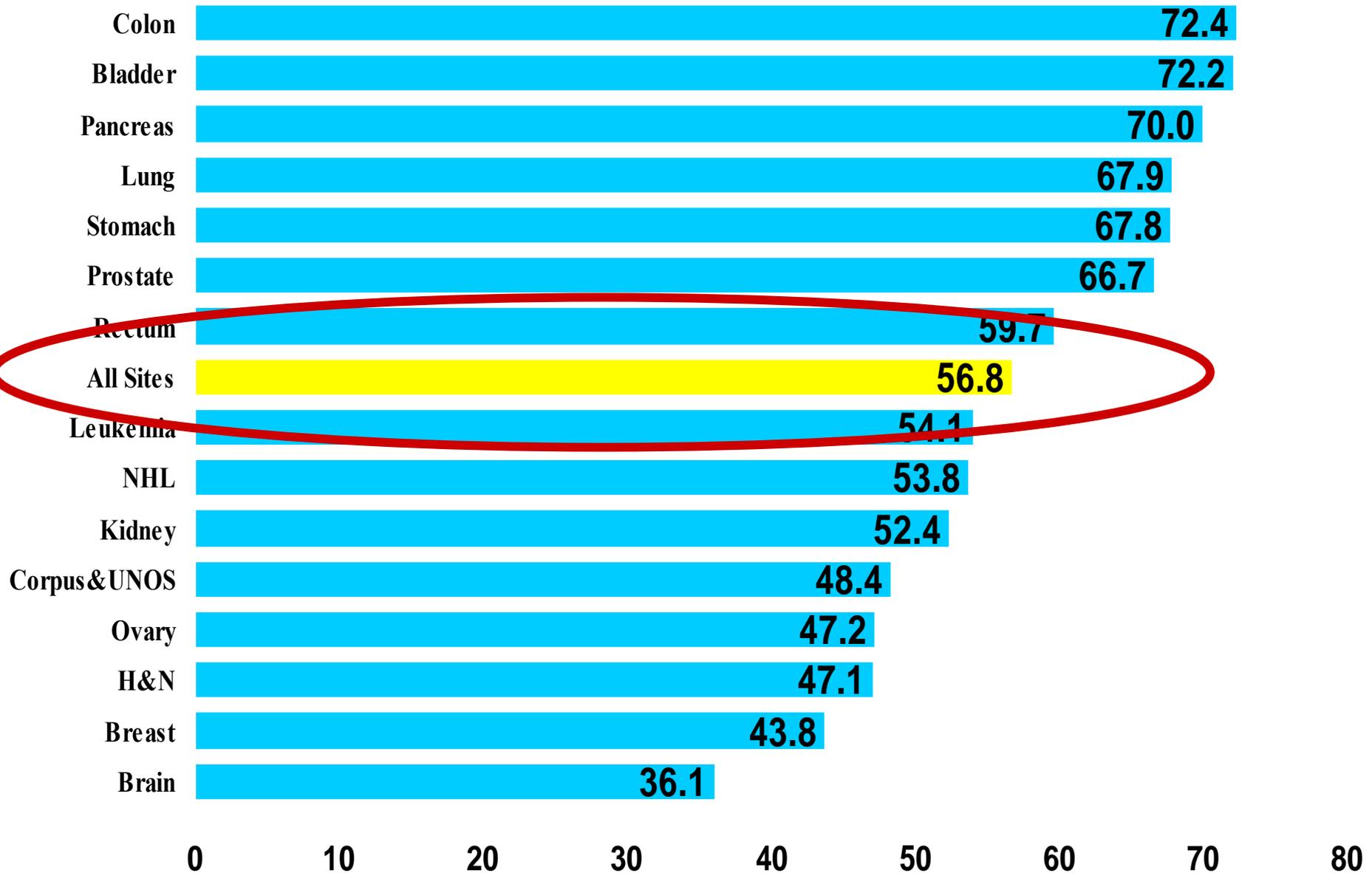


Expanding U.S. Aging Population



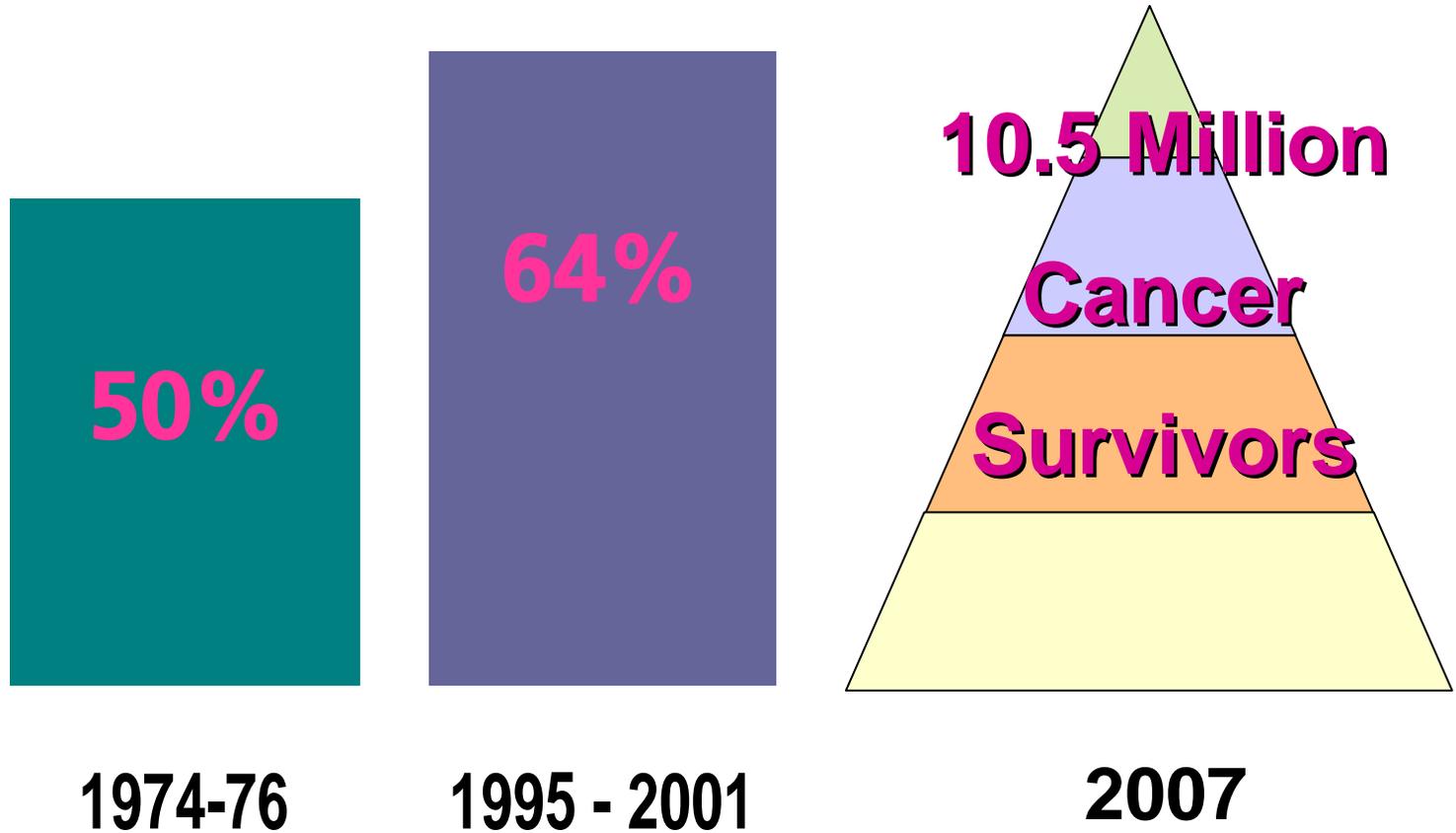
Total US Resident Population Projections from: U.S. Census Bureau, (1) 1990 Census and (2) U.S. Interim Projections by Age, Sex, Race, and Hispanic Origin, <http://www.census.gov/ipc/www/usinterimproj/>, accessed on 09/15/2004.

Incidence (%) of Cancer in Patients $\geq 65^*$



*All Race/sex groups. Source: NCI SEER Program Data, 1997-2001.

5-Year Cancer Survival Rates All Races and All Sites (1974 – 2001)





- Three out of four families are affected by cancer (Cancer Facts and Figures, 1996).
- Cancer is a problem that affects the entire family.





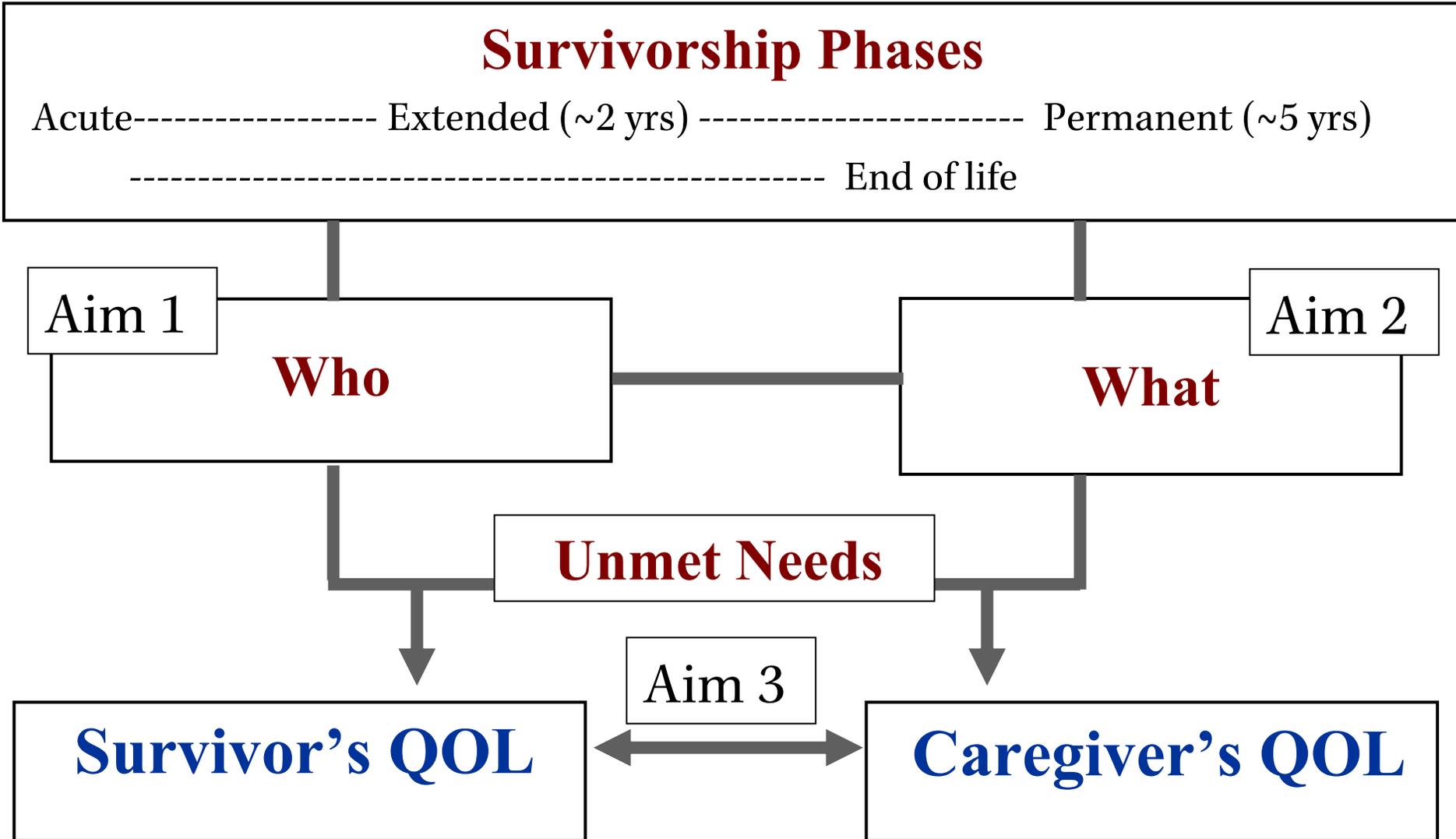
ACS QOL Survey for Caregivers:

National Study

Aims

- ❖ To examine the impact of cancer on the quality of life of family members and close friends of cancer survivors.
- ❖ To develop services to help improve their quality of life.

Conceptual Model: Family Caregiver Projects



Psychosocial
Functioning



Spiritual
Adjustment



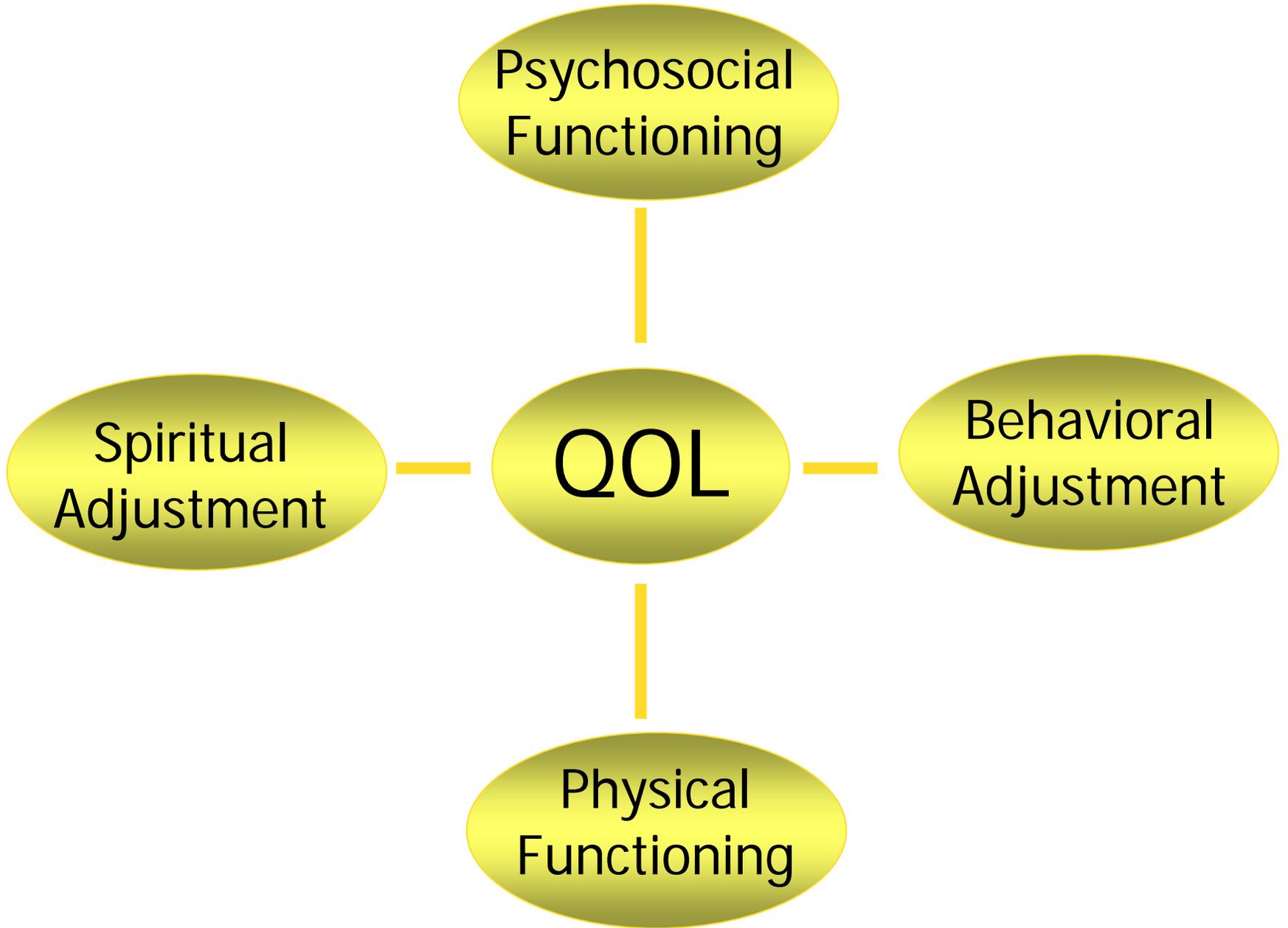
QOL



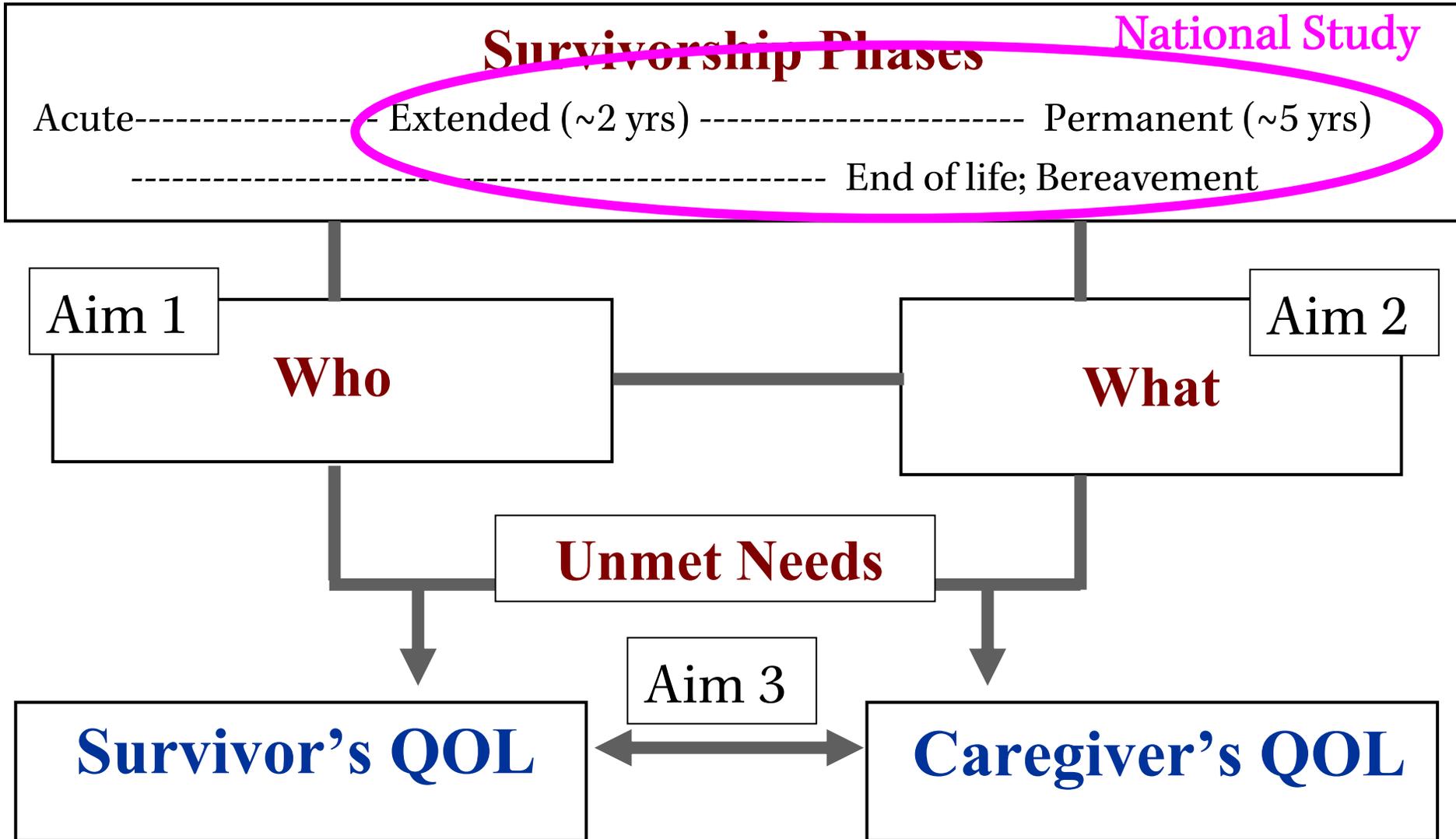
Behavioral
Adjustment



Physical
Functioning



Conceptual Model: Family Caregiver Projects



QOL Survey for Caregivers

- 10 most common cancers
 - Cohort 1: Implementation Pilot Survey (2002 – 2006)
 - Time 1 (2 years post-dx): $n = 739$
 - Time 2 (5 years post-dx): $n = 612$
 - Cohort 2: National Survey (2003 – 2007)
 - Time 1 (2 years post-dx): $n = 896$
 - Time 2 (5 years post-dx): Aug. – Dec. 2007
- ➔ Total N at initial assessment = 1,635
- ➔ Current N at 5 years assessment = 612

Demographic Characteristics of Survivors and Caregivers (Time 1)

	Survivor (N=1,635)	Caregiver (N=1,635)
Caucasian	91.0%	96.1%
Age	58.8 (22 - 94)	55.1 (18 – 90)
Female	58.8%	65.9%
≤ High School	33.6%	21.1%
< \$40K	30.4%	25.0%
Relationship to Survivor: Spouse = 66.1%; Offspring = 14.3%		

Measures

- **Quality of Life:**

Mental Functioning: SF-36, SF-12

Physical Functioning: SF-36, SF-12

Psychological Adjustment: POMS-SF

Spiritual Adjustment: FACIT-Sp

- **Caregiving Burden:**

Caregiving Stress Overload: Pearlin Stress Scale

Impact on Schedule: Caregiver Reaction Assessment

Financial Burden: Caregiver Reaction Assessment

**Caregivers' QOL and Burden
at the Early Survivorship:
~ 2 Years Post-Diagnosis**



Descriptives of QOL and Caregiving Burden

Indicators of Quality of Life (2 yr)

	Mean
Mental Functioning	49.73
Physical Functioning	49.93
Psychological Adjustment	10.20
Spiritual Adjustment	34.59

Indicators of Caregiving Burden (2 yr)

	Mean
Stress Overload	1.64 (1 ~ 4)
Impact on Schedule	2.35 (1 ~ 5)
Financial Burden	2.11 (1 ~ 5)



Predicting QOL and Caregiving Burden

Predictors of Quality of Life (2 yr)

	Mental Functioning	Physical Functioning	Psychological Adjustment	Spiritual Adjustment
Age				
Education	--	--	--	--
Employed	--	--	--	--
Gender	--	--	--	--
Income				--
Spouse	--	--	--	--

Predictors of Caregiving Burden (2 yr)

	Stress Overload	Impact on Schedule	Financial Burden
Age	↓	--	↓
Education	--	--	--
Employed	--	--	--
Gender	--	--	--
Income	--	--	↓
Spouse	↑	↑	--

**Caregivers' QOL and Burden
at the Mid-term Survivorship:
~ 5 Years Post-Diagnosis**



Descriptives of QOL and Caregiving Burden

Indicators of Quality of Life (2 yr / 5 yr)

	Mean
Mental Functioning	49.73 / 50.36
Physical Functioning	49.93 / 50.42
Psychological Adjustment	10.20 / 10.31
Spiritual Adjustment	34.59 / 32.78

Indicators of Caregiving Burden (2 yr/5 yr)

	Mean
Stress Overload	1.64 / 1.51 (1 ~ 4)
Impact on Schedule	2.35 / 2.32 (1 ~ 5)
Financial Burden	2.11 / 2.61 (1 ~ 5)



Predicting QOL and Caregiving Burden

Predictors of Quality of Life (5 yr)

	Mental Functioning	Physical Functioning	Psychological Adjustment	Spiritual Adjustment
Age				
Education	--	--	--	--
Employed	--	--	--	--
Gender	--	--	--	--
Income			--	--
Spouse	--	--	--	--

Predictors of Caregiving Burden (5 yr)

	Stress Overload	Impact on Schedule	Financial Burden
Age	--	--	--
Education	--	--	--
Employed	--	--	--
Gender	--	--	--
Income	--	--	
Spouse	--	--	--

Conceptual Model: Family Caregiver Projects

Survivorship Phases

Acute----- Extended (~2 yrs) ----- Permanent (~5 yrs)
----- End of life

Aim 1

Who

Aim 2

What

Unmet Needs

Survivor's QOL

Aim 3

Caregiver's QOL

Limitations

- **Cross-sectional analyses**
- **Small sample size at 5 years post-diagnosis**
- **Comparison across different types of cancer**
- **Comparison across other phases of illness trajectory**
- **Self-report**

Conclusions

- ❖ Caregivers at the early and mid-term survivorship phases display normal levels of quality of life.
- ❖ Caregivers at the early and mid-term survivorship phase reported relatively low to medium levels of caregiving burden.
- ❖ Older caregivers were better off in psychosocial adjustment, whereas they suffered from disproportionate physical burden of caregiving.
- ❖ Caregivers with limited socioeconomic resources should receive special attention from clinicians and policy makers.

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Thank You !!!

Q & A