Medicare Health Outcomes Survey Applied Research Center

Report on the Health Status of Medicare Disabled Cohort I Baseline Data 1998

Prepared by

Health Services Advisory Group

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INTRODUCTION

This report presents a comparison of the demographic and health characteristics of the disabled Medicare beneficiaries under age 65 and those beneficiaries over age 65 in the Medicare Health Outcome Survey (HOS) *Cohort I Baseline* measurement. The purpose of this report is to provide a descriptive picture of this disabled population and to identify differences between this group and the larger, elderly Medicare population.

METHODOLOGY

Medicare Health Outcomes Survey Sample Characteristics

In 1998, the Health Care Financing Administration (HCFA) drew a random sample of 1,000 Medicare beneficiaries from each applicable Medicare contract market. In plans with fewer than 1,000 Medicare beneficiaries, the sample included the entire enrolled Medicare population who met the inclusion criteria. The sample frame for the survey comprised the enrolled Medicare membership of a contract market. Institutionalized beneficiaries were eligible for inclusion in the sample frame, as were disabled beneficiaries. Beneficiaries with end-stage renal disease were excluded from the sampling. Specifically, members were eligible for sampling if they meet the following criteria:

- They were Medicare beneficiaries enrolled in a Medicare risk or cost contract with a contract effective date of January 1, 1997, or before.
- They were current health plan members who were continuously enrolled in the health plan for at least six months at the time the sample was drawn by HCFA.
- They were not included in the sample surveyed during the same calendar year for the Consumer Assessment of Health Plans Survey (CAHPS®), unless the plan's total Medicare membership was less than 1,600.

The data collection protocol used a combination of mail and phone surveys. The methods included multiple mailings, careful timing, and persistent follow-up of non-respondents for optimal response rates. The complete data collection protocols can be found in the Health Plan Employer Data and Information Set (HEDIS®) 1998 Medicare Health Outcomes Survey Manual¹.

Note: CAHPS® is a registered trademark of the Agency for Healthcare Research and Quality (AHRQ). HEDIS® is a registered trademark of the National Committee for Quality Assurance (NCQA).

¹National Committee for Quality Assurance. HEDIS® 3.0/1998, Volume 6, Health of Seniors Survey Instrument and Protocol for Data Collection. Washington, D.C. NCQA Publication.

Cohort 1 Baseline

This report utilizes *Cohort I Baseline* data. This cohort is comprised of 279,135 Medicare beneficiaries from 269 Medicare + Choice Organizations (M+COs) representing 287 market areas. The total response rate for beneficiaries over the age of 65 was 60 percent (167,238). Of the original sample, 18,864 (5.5 percent) were under the age of 65, and Medicare recorded their reason for entitlement as being disabled. Of this group, 10,513 returned the survey, for a response rate of 56 percent.

DATA

Demographics (Table 1, Figures 1 and 2)

Disabled beneficiaries are more likely to be male, whereas elderly beneficiaries are more likely to be female. The median age for the disabled group is 57 (range 21-64) and the median age for the elderly group is 73 (range 65-108).

As can be seen in Figure 1, both groups are most likely to be married, but the elderly are more likely to be married than are the disabled. Disabled beneficiaries are more likely to be divorced or never married than are the elderly, while elderly beneficiaries are more likely to be widowed than are the disabled.

Race/Ethnicity is disproportionately represented in the two groups; the proportion of both African Americans and those of Hispanic origin in the disabled population is nearly twice the proportion of these groups in the elderly population. The disparate proportion of ethnic minorities in the disabled population is shown in Figure 2.

A higher proportion of disabled beneficiaries live on incomes below \$20,000 (58% compared to 41% of the elderly). Likewise, more disabled beneficiaries are on Medicaid than are the elderly (13% compared to 3%). Both groups are more likely to own their homes, elderly beneficiaries are more likely than disabled to be homeowners. Disabled beneficiaries are more likely to rent than are the elderly. Interestingly, level of education is similar between the two groups.

Chronic Conditions (Table 2, Figure 3)

Disabled beneficiaries have more chronic conditions than do the elderly. As seen in Figure 3, disabled beneficiaries are more likely than the elderly to have greater than three coexisting chronic conditions. Table 2 reveals that the most frequently reported condition for

Medicare HOSARC Health Status of Medicare Disabled November 30, 2000

both groups is hypertension, which is reported by over one-half of the beneficiaries in each group. Both groups showed arthritic conditions to be the second and third most frequently reported chronic conditions. Significantly more disabled respondents reported both types of arthritis than their aged counterparts. Disabled beneficiaries are almost twice as likely to report Emphysema/Asthma/COPD or Diabetes than are the elderly. On the other hand, the elderly are more likely to report cancer.

Risk Factors (Table 3)

Nearly one-half (45%) of the disabled beneficiaries currently smoke, compared to 20% of the elderly beneficiaries. Conversely, 72% of the elderly beneficiaries have quit smoking, as compared to 51% of disabled.

ADL Impairments (Tables 4 and 5, Figure 4)

Disabled beneficiaries are more impaired on Activities of Daily Living (ADLs) than are the elderly. This is particularly true in those ADLs that would potentially require physical therapy or assistive devices, such as walking, getting in and out of chairs, and bathing. Elderly beneficiaries who are impaired show the highest impairment on walking. As can be seen in Table 5 and Figure 4, disabled beneficiaries are three times as likely to be impaired on three or more ADLs.

Health Status (Table 6, Figures 5, 6 and 7)

A greater proportion of the disabled group rated their health as fair to poor than did the elderly (68% compared to 28%). Figure 5 shows that general health perception is normally distributed in the elderly population. General health perception also seems to be normally distributed in the disabled population, but appears to be shifted by one category; the disabled beneficiaries perceive their general health to be worse than do the elderly.

Almost twice as many of the disabled rated their health as worse than the previous year (37% compared to 18%). Figure 6 reveals that perception of health compared to one year ago is also normally distributed in both groups.

As seen in Figure 7, the disabled see themselves as more ill compared to their peers than do the elderly.

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Depression

(Table 7, Figure 8)

Nearly one-half of the disabled population show some level of depression, as compared to less than one fifth of the elderly. The magnitude of this difference is shown in Figure 8.

SF-36[®] (Table 8, Figure 9)

Both the disabled and the elderly populations scored below the national norms on all SF-36[®] scales (with the exception of the elderly on the Mental Component Summary score and the Mental Health scale). The disabled consistently scored lower than the elderly, usually by one standard deviation, as is apparent in Figure 9.

SIGNIFICANT FINDINGS

Compared to the elderly (over age 65) Medicare beneficiaries, the disabled (under age 65) Medicare beneficiaries in *Cohort I Baseline*

- have a higher proportion of ethnic minorities
- are more likely to be on Medicaid
- are more likely to have a higher number of co-existing chronic conditions
- are more likely to smoke and less likely to have quit
- are three times more likely to rate their health as fair or poor
- are twice as likely to rate their health as worse than last year
- are more than twice as likely to report depression
- scored one standard deviation lower on all SF-36[®] scales

SF-36[®] is a registered trademark of the Medical Outcomes Trust.

| November 30, 2000 | | | | | | | |
|---|--|----------------------------|--------------------------------|---------|---------|--|--|
| Table 1 | | | | | | | |
| Cohort I Baseline Basic Demographics | | | | | | | |
| Variable Category Disabled Elderly χ² value P Value | | | | | | | |
| Total | Category | N=10,513 | N=167,238 | χ value | r value | | |
| Age | | Median = 57 | Median = 73 | | | | |
| Ago | | Range = 21-64 | Range = 65-108 | | | | |
| Gender | Male | 5,557 (52.9%) | 71,029 (42.5%) | 435.1 | <.001 | | |
| | Female | 4,956 (47.1%) | 96,209 (57.5%) | | | | |
| | Missing/Total | 0 / 10,513 | 0 / 167,238 | | | | |
| Race/Ethnicity | American Indian/Alaskan Native | 162 (1.6%) | 1,259 (0.8%) | 1,266.6 | <.001 | | |
| | Asian/Pacific Islander | 72 (0.7%) | 2,851 (1.8%) | | | | |
| | Black/African American | 1,410 (13.9%) | 10,721 (6.6%) | | | | |
| | White | 7,998 (78.9%) | 144,099 (88.7%) | | | | |
| | Other/Multiracial | 495 (4.9%) | 3,547 (2.2%) | | | | |
| | Missing/Total | | 4,761 / 162,477 | | | | |
| | Hispanic Origin | 848 (8.3%) | 7,752 (4.8%) | 246.9 | <.001 | | |
| | Missing/Total | | 6,799 / 152,687 | | | | |
| Marital Status | Married | 5,066 (49.0%) | 96,085 (58.5%) | 8,863.8 | <.001 | | |
| | Divorced | 2,432 (23.5%) | 13,353 (8.1%) | | | | |
| | Separated | 366 (3.5%) | 1,355 (0.8%) | | | | |
| | Widowed | 1,000 (9.7%) | 49,185 (30.0%) | | | | |
| | Never Married | 1,473 (14.2%) | 4,240 (2.6%) | | | | |
| | Missing/Total | | 3,020 / 164,218 | | | | |
| Educational Level | | 1,435 (14.1%) | 21,181 (13.0%) | 252.5 | <.001 | | |
| | Some High School | 1,888 (18.5%) | 29,555 (18.2%) | | | | |
| | High School/GED | 3,538 (34.7%) | 56,123 (34.5%) | | | | |
| | Some College | 2,443 (23.9%) | 33,195 (20.4%) | | | | |
| | College Graduate | 484 (4.7%) | 10,885 (6.7%) | | | | |
| | More than 4 Year Degree | 417 (4.1%) | 11,656 (7.2%) | | | | |
| | Missing/Total | | 4,643 / 162,595 | 4 400 0 | | | |
| Income Level | Less than \$5,000 | 577 (5.9%) | 5,386 (3.6%) | 1,406.0 | <.001 | | |
| | \$5,000 - \$9,999 | 1,973 (20.0%) | 17,552 (11.7%) | | | | |
| | \$10,000 - \$19,999 | 3,215 (32.6%) | 40,050 (26.8%) | | | | |
| | \$20,000 - \$29,999 | 1,590 (16.1%) | 28,336 (18.9%) | | | | |
| | \$30,000 - \$39,999 \$40,000 - \$49,999 | 747 (7.6%) | 17,310 (11.6%) | | | | |
| | \$50,000 - \$79,999 \$50,000 - \$79,999 | 337 (3.4%) 254 (2.6%) | 9,365 (6.3%) | | | | |
| | \$80,000 - \$79,999 \$80,000 - \$99,999 | 44 (0.4%) | 8,988 (6.0%) 1,892 (1.3%) | | | | |
| | \$100,000 or more | 27 (0.3%) | 2,320 (1.6%) | | | | |
| | Don't know | 1,084 (11.0%) | 18,336 (12.3%) | | | | |
| | Missing/Total | | 17,703 / 149,535 | | | | |
| Medicaid Status | No | 9,175 (87.3%) | 162,330 (97.1%) | 2,797.5 | <.001 | | |
| medicalu Status | Yes | 1,338 (12.7%) | 4,908 (2.9%) | 2,181.0 | \.UU1 | | |
| | Missing/Total | | 0 / 167,238 | | | | |
| Homeowner | Owned/bought by you | 5,557 (55.2%) | 121,537 (75.9%) | 2,196.2 | <.001 | | |
| Status | Owned/bought by someone else | 1,180 (11.7%) | 10,564 (6.6%) | 2,100.2 | 001 | | |
| | Rented for money | 3,060 (30.4%) | 24,960 (15.6%) | | | | |
| | Not owned and one in which you live | 279 (2.8%) | 3,127 (2.0%) | | | | |
| | without payment or rent | 2.0 (2.0 /0) | 0,121 (2.070) | | | | |
| | Missing/Total | 437 / 10,076 | 7,050 / 160,188 | | | | |

| Table 2 | | | | | | |
|---|-------------------|-----------------|--------|-------|--|--|
| Cohort I Baseline | | | | | | |
| | Frequency of Chro | nic Conditions | | | | |
| Variable Disabled Elderly χ^2 value P Va | | | | | | |
| Comorbidity | | | | | | |
| Angina Pectoris | 2,278 (22.3%) | 25,929 (16.0%) | 275.9 | <.001 | | |
| Arthritis hand/wrist | 4,386 (42.6%) | 55,514 (34.1%) | 308.2 | <.001 | | |
| Arthritis hip/knee | 4,805 (46.6%) | 62,013 (38.0%) | 302.2 | <.001 | | |
| Cancer | 974 (9.4%) | 21,770 (13.3%) | 129.6 | <.001 | | |
| Diabetes | 2,651 (25.7%) | 26,700 (16.4%) | 602.2 | <.001 | | |
| Emphysema/Asthma/COPD | 2,518 (24.6%) | 20,259 (12.5%) | 1231.1 | <.001 | | |
| Hypertension | 5,693 (55.0%) | 86,527 (52.9%) | 18.0 | <.001 | | |
| Myocardial Infarction | 1,636 (16.1%) | 16,972 (10.5%) | 302.0 | <.001 | | |
| Other heart conditions | 2,835 (27.7%) | 34,197 (21.1%) | 244.2 | <.001 | | |
| Stroke | 1,254 (12.2%) | 13,160 (8.1%) | 212.6 | <.001 | | |
| Number of Chronic Conditions | | | | | | |
| | 4 202 (40 70/) | 05 404 (45 00/) | 1405.7 | 1.004 | | |
| No Comorbid Conditions | 1,323 (12.7%) | 25,131 (15.2%) | 1405.7 | <.001 | | |
| One Comorbid Condition | 1,679 (16.1%) | 38,952 (23.6%) | | | | |
| Two Comorbid Conditions | 1,989 (19.1%) | 38,388 (23.3%) | | | | |
| Three Comorbid Conditions | 1,958 (18.8%) | 29,044 (17.6%) | | | | |
| Four-Five Comorbid Conditions | 2,439 (23.4%) | 26,835 (16.3%) | | | | |
| Six or More Comorbid Conditions | 1,029 (9.9%) | 6,734 (4.1%) | | | | |

^{*}Percent response is based on those individuals answering the question.

| | Table 3 | | | | | | |
|-----------------------------|--------------|---------------|----------|---------|--|--|--|
| Cohort I Baseline | | | | | | | |
| | Smoking Beha | vior | | | | | |
| Variable | Disabled | Elderly | χ² value | P Value | | | |
| Ever Smoked 100 Cigarettes* | | | | | | | |
| Yes | 6763 (66.9%) | 88919 (56.3%) | 435.0 | <.001 | | | |
| No | 3347 (33.1%) | 69019 (43.7%) | | | | | |
| Total | 10,110 | 157,938 | | | | | |
| Current Smoking Frequency* | | | | | | | |
| Every Day | 2592 (36.7%) | 15125 (15.4%) | 2650.4 | <.001 | | | |
| Some Days | 621 (8.8%) | 4088 (4.2%) | | | | | |
| Not at All | 3847 (54.5%) | 78884 (80.4%) | | | | | |
| Total | 7,060 | 98,097 | | | | | |
| Quit Smoking* | | | | | | | |
| 12 Months or Less | 351 (10.2%) | 2557 (4.0%) | 304.3 | <.001 | | | |
| More than 12 Months | 3099 (89.8%) | 61571 (96.0%) | | | | | |
| Total | 3,450 | 64,128 | | | | | |

^{*}Response option of "Don't know" excluded from calculations.

| Table 4 | | | | | | | | |
|---------------------------------|--|---|---|--------|-------|--|--|--|
| Cohort I Baseline | | | | | | | | |
| | Degree of Impairme | nt in Activities of | Daily Living | | | | | |
| Activity of Daily Living | of Daily Living Response Category Disabled Elderly | | | | | | | |
| Difficulty Using Toilet | Unable To Do Have Difficulty Do Not Have Difficulty Missing/Total | 252 (2.4%) 2,217 (21.5%) 7,852 (76.1%) 192 / 10,321 | 2,093 (1.3%) 10,765 (6.6%) 151,360 (92.2%) 3,020 / 164,218 | 3282.4 | <.001 | | | |
| Difficulty Eating | Unable To Do Have Difficulty Do Not Have Difficulty Missing/Total | 225 (2.2%) 1,475 (14.3%) 8,587 (83.5%) | 1,643 (1.0%) 7,363 (4.5%) 154,962 (94.5%) 3,270 / 163,968 | 2103.3 | <.001 | | | |
| Difficulty Bathing | Unable To Do Have Difficulty Do Not Have Difficulty Missing/Total | 364 (3.5%) 3,776 (36.5%) 6,195 (59.9%) 178 / 10,335 | 4,313 (2.6%) 17,643 (10.7%) 142,397 (86.6%) 2,885 / 164,353 | 6123.3 | <.001 | | | |
| Difficulty Getting Out of Chair | Unable To Do Have Difficulty Do Not Have Difficulty Missing/Total | 272 (2.6%) 5,485 (53.2%) 4,547 (44.1%) 209 / 10,304 | 2,406 (1.5%) 39,412 (24.0%) 122,212 (74.5%) 3,208 / 164,030 | 4528.0 | <.001 | | | |
| Difficulty Dressing | Unable To Do Have Difficulty Do Not Have Difficulty Missing/Total | 310 (3.0%) 3,514 (34.0%) 6,514 (63.0%) 175 / 10,338 | 3,035 (1.8%) 14,846 (9.0%) 146,385 (89.1%) 2,972 / 164,266 | 6583.4 | <.001 | | | |
| Difficulty Walking | Unable To Do Have Difficulty Do Not Have Difficulty Missing/Total | 714 (6.9%) 6,656 (64.5%) 2,947 (28.6%) 196 / 10,317 | 4,178 (2.5%) 50,354 (30.7%) 109,540 (66.8%) 3,166 / 164,072 | 6254.9 | <.001 | | | |

| Table 5 Cohort I Baseline Number of Activities of Daily Living Impaired | | | | | | | |
|---|---------------|----------------|--------|-------|--|--|--|
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | |
| 0 | 2,313 (22.2%) | 99,580 (60.3%) | 8665.0 | <.001 | | | |
| 1 | 1,632 (15.7%) | 24,235 (14.7%) | | | | | |
| 2 | 1,961 (18.9%) | 18,626 (11.3%) | | | | | |
| 3 | 1,195 (11.5%) | 7,586 (4.6%) | | | | | |
| 4 | 1,249 (12.0%) | 5,828 (3.5%) | | | | | |
| 5 | 1,151 (11.1%) | 4,790 (2.9%) | | | | | |
| 6 | 895 (8.6%) | 4,424 (2.7%) | | | | | |

^{*}Percent response is based on those individuals answering at least one ADL question.

| Table 6 | | | | | | | | | |
|-------------------|-------------------------|---------------|-----------------|----------|---------|--|--|--|--|
| Cohort I Baseline | | | | | | | | | |
| | Health Status Responses | | | | | | | | |
| Variable | Category | Disabled | Elderly | χ² value | P Value | | | | |
| General Health | Excellent | 187 (1.8%) | 10,573 (6.4%) | 9908.4 | <.001 | | | | |
| Question | Very Good | 710 (6.8%) | 42,212 (25.4%) | | | | | | |
| | Good | 2,457 (23.6%) | 67,487 (40.7%) | | | | | | |
| | Fair | 4,577 (43.9%) | 37,100 (22.4%) | | | | | | |
| | Poor | 2,501 (24.0%) | 8,582 (5.2%) | | | | | | |
| | Missing/Total | 81 / 10,432 | 1,284 / 165,954 | | | | | | |
| Health Transition | Much Better | 345 (3.3%) | 8,208 (4.9%) | 2495.1 | <.001 | | | | |
| Question | Somewhat Better | 1,071 (10.3%) | 17,575 (10.6%) | | | | | | |
| | About the Same | 5,130 (49.1%) | 110,138 (66.3%) | | | | | | |
| | Somewhat Worse | 3,130 (30.0%) | 25,620 (15.4%) | | | | | | |
| | Much Worse | 771 (7.4%) | 4,496 (2.7%) | | | | | | |
| | Missing/Total | 66 / 10,447 | 1,201 / 166,037 | | | | | | |
| Health Compared | Excellent | 233 (2.3%) | 23,463 (14.3%) | 19106.0 | <.001 | | | | |
| to Peers | Very Good | 712 (6.9%) | 50,860 (30.9%) | | | | | | |
| | Good | 2,019 (19.5%) | 53,667 (32.7%) | | | | | | |
| | Fair | 4,020 (38.9%) | 29,602 (18.0%) | | | | | | |
| | Poor | 3,344 (32.4%) | 6,752 (4.1%) | | | | | | |
| | Missing/Total | 185 / 10,328 | 2,894 / 164,344 | | | | | | |

| Table 7 | | | | | | |
|-----------------------------|---------------|---------------------|-------------------|----------|---------|--|
| | | hort I Baseline | | | | |
| Percentage | Responding A | Affirmatively to De | epression Questio | ns | | |
| Depression Question | ons | Disabled | Elderly | χ² value | P Value | |
| Sad/Blue for 2 weeks | Question 38 | 5,821 (56.7%) | 34,447 (21.1%) | 6849.8 | <.001 | |
| | Missing/Total | 247 / 10,266 | 4,229 / 163,009 | | | |
| Depressed in past year | Question 39 | 4,561 (44.6%) | 21,828 (13.4%) | 7232.6 | <.001 | |
| | Missing/Total | 279 / 10,234 | 4,443 / 162,795 | | | |
| Depressed two or more years | Question 40 | 4,481 (43.8%) | 21,706 (13.3%) | 6956.7 | <.001 | |
| _ | Missing/Total | 294 / 10,219 | 4,641 / 162,597 | | | |

| Table 8 | | | | | | | |
|----------------------------------|-----------------|-----------------------|-----------------|---------|--|--|--|
| Cohort I Baseline | | | | | | | |
| Me | ean Normed SF-3 | 36 [®] Score | | | | | |
| SF-36 [®] Component | Disabled | Elderly | T (df) | P Value | | | |
| | Mean (SD) | Mean (SD) | | | | | |
| Physical Component Summary Score | 29.7 (11.0) | 41.3 (11.9) | 93.2 (164,310) | <.001 | | | |
| Mental Component Summary Score | 42.7 (13.5) | 52.5 (10.0) | 90.6 (164,310) | <.001 | | | |
| Physical Functioning Scale | 29.2 (12.1) | 40.7 (12.9) | 89.0 (175,855) | <.001 | | | |
| Role-Physical Scale | 33.0 (10.7) | 43.2 (12.8) | 78.6 (170,621) | <.001 | | | |
| Bodily Pain Scale | 34.6 (11.1) | 45.0 (11.2) | 91.4 (173,821) | <.001 | | | |
| General Health Scale | 32.4 (11.0) | 45.9 (11.0) | 120.3 (173,031) | <.001 | | | |
| Vitality Scale | 37.2 (10.6) | 47.9 (10.9) | 96.8 (173,437) | <.001 | | | |
| Social Functioning Scale | 34.9 (12.9) | 47.9 (11.8) | 108.6 (174,013) | <.001 | | | |
| Role-Emotional Scale | 39.9 (13.7) | 48.4 (11.4) | 71.0 (169,442) | <.001 | | | |
| Mental Health Scale | 40.6 (13.2) | 51.2 (10.2) | 100.5 (173,168) | <.001 | | | |

Figure 1 Cohort I Baseline **Disabled and Elderly Marital Status**

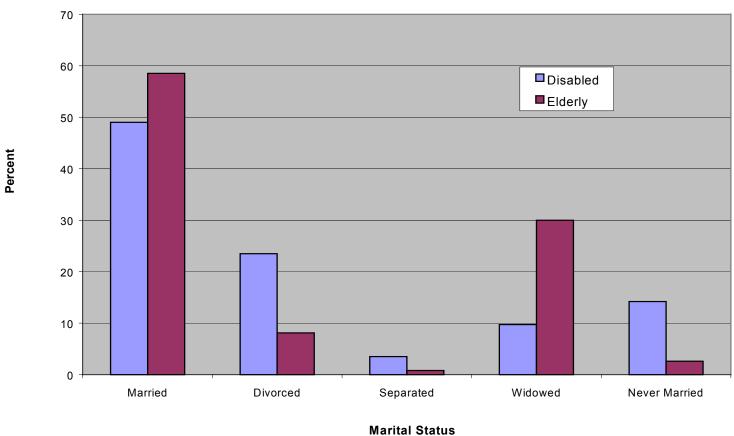


Figure 2
Cohort I Baseline
Disabled and Elderly
Racial/Ethnic Distribution

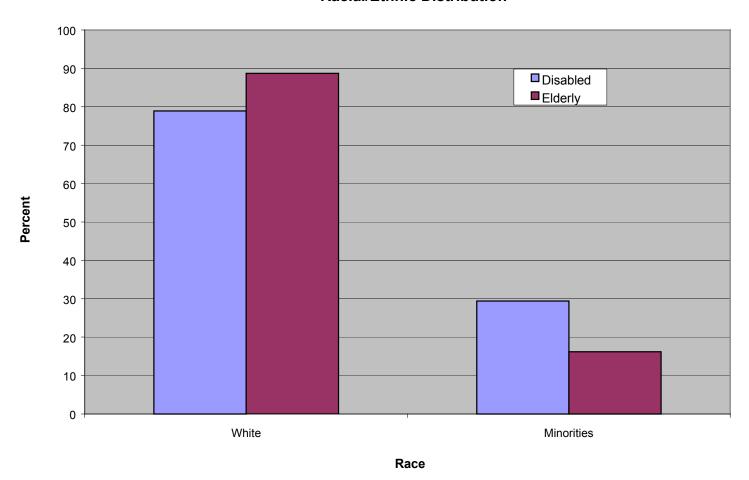
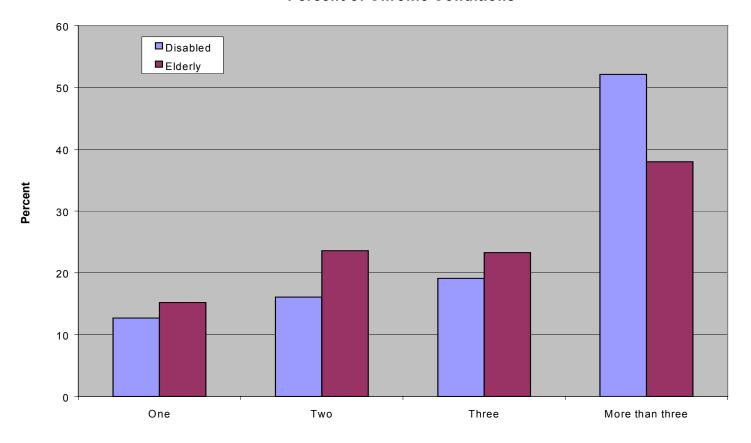
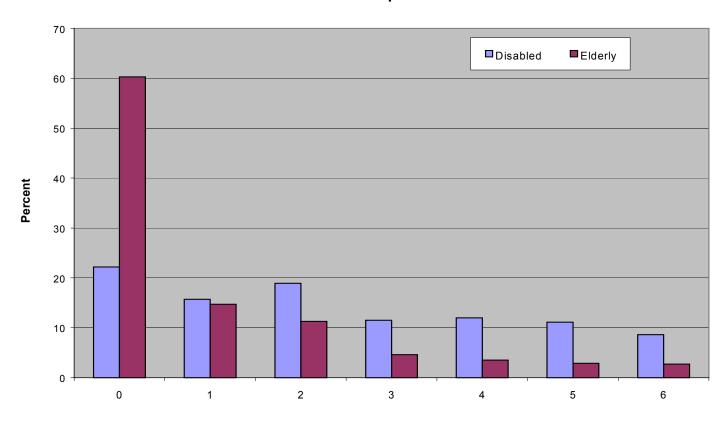


Figure 3
Cohort I Baseline
Disabled and Elderly
Percent of Chronic Conditions



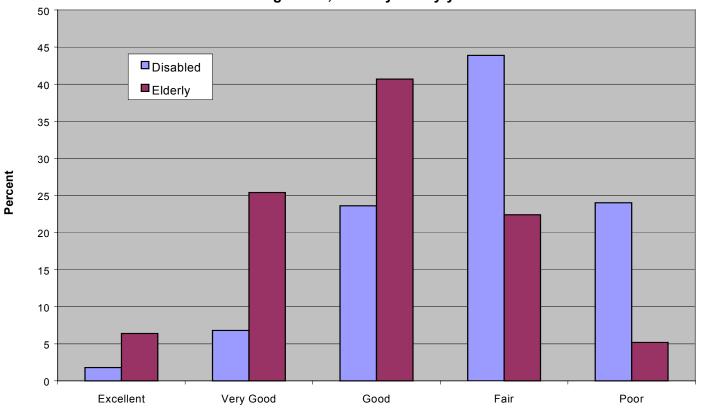
Number of Chronic Conditions

Figure 4
Cohort I Baseline
Disabled and Elderly
Percent with Impaired ADLs



Number of ADLs Impaired

Figure 5
Cohort I Baseline
Disabled and Elderly
In general, would you say your health is:



Response Selections

Figure 6

Cohort I Baseline

Disabled and Elderly

Compared to one year ago, how would you rate your health now?

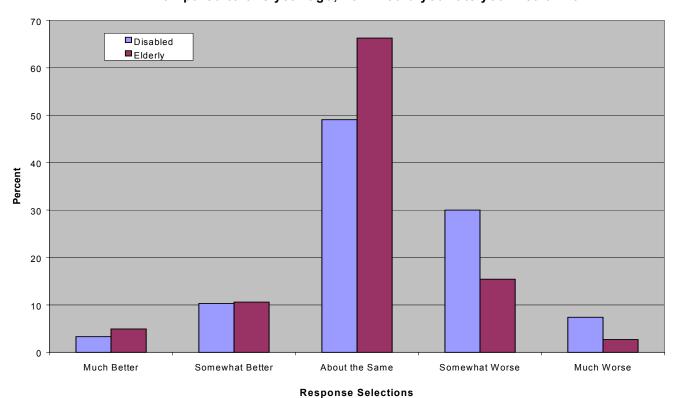
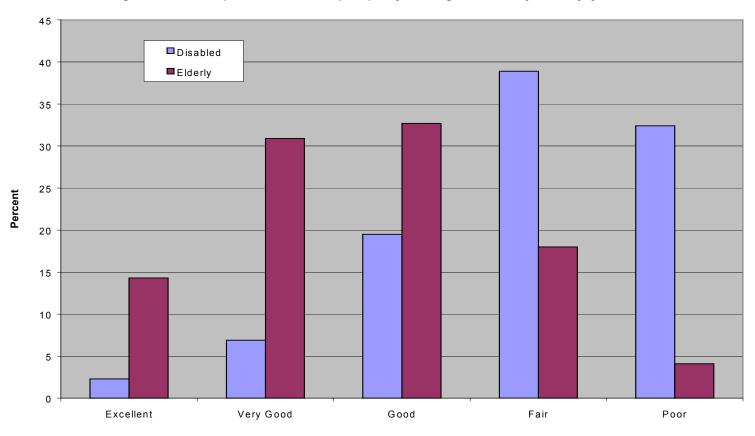


Figure 7

Cohort I Baseline

Disabled and Elderly

In general, compared to other people your age, would you say your health is:



Response Selection

Figure 8

Cohort I Baseline

Disabled and Elderly

Affirmative Responses to Depression Questions

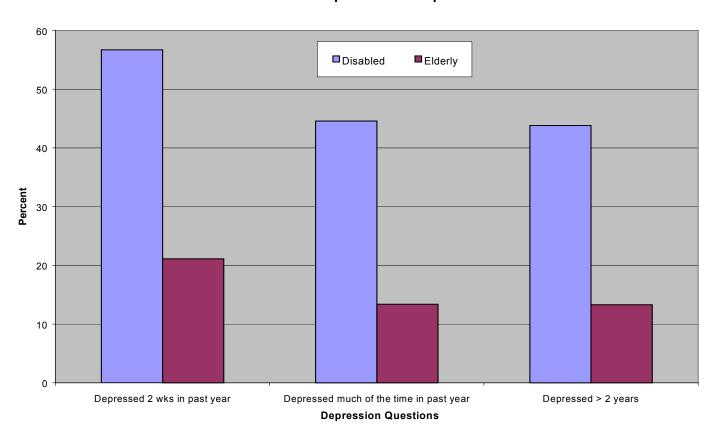
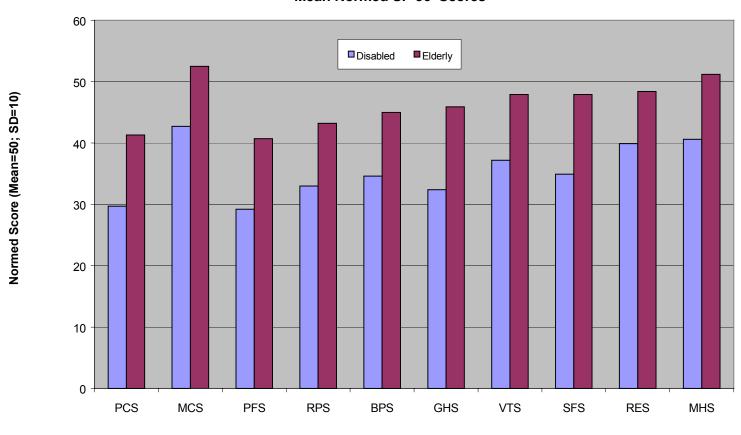


Figure 9
Cohort I Baseline
Disabled and Elderly
Mean Normed SF-36 Scores



SF-36 Scales