Characteristics of Caregivers and Care Recipients:
Results from 2007 Kansas Behavioral Risk Factor Surveillance System
Characteristics of Caregivers and Care Recipients - 2007

State of Kansas
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Kansas Department of Health and Environment (KDHE)
Mission

To protect the health and environment of all Kansans by promoting responsible choices.

Through education, direct services and the assessment of data and trends, coupled with policy development and enforcement, KDHE will improve health and quality of life. We prevent illness, injuries and foster a safe and sustainable environment for the people of Kansas.

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Contents

Tables & Figures Listing ........................................................................................................ 2

Characteristics of Caregivers and Care Recipients .................................................. 3

References ........................................................................................................................ 7

Table 1: Weighted demographic and health behavior characteristics of caregivers and non-caregivers ........... 8

Table 2: Weighted caregiving experience characteristics ............................................... 10

Appendix A: Caregiver Module .......................................................................................... 13

Appendix B: Figures Kansas BRFSS, 2007 ....................................................................... 15

Gender of Caregivers and Non-caregivers .................................................................. 15
Age Distribution of Caregivers and Non-caregivers ................................................. 15
Race/Ethnicity of Caregiver and Non-caregivers ......................................................... 16
Education Status among Caregivers and Non-caregivers ........................................... 16
Marital Status of Caregivers and Non-caregivers ......................................................... 16
Employment Status of Caregivers and Non-caregivers ............................................... 17
Disability Status of Caregivers and Non-caregivers ...................................................... 17
Life Satisfaction Levels of Caregivers and Non-caregivers ......................................... 17
How Often Caregivers and Non-caregivers Receive Emotional Support ......................... 18
General Health among Caregivers and Non-caregivers .............................................. 18
Physical Activity among Caregivers and Non-caregivers ............................................ 18
Fruit and Vegetable Consumption among Caregivers and Non-caregivers .................... 19
Body Mass Index (BMI) of Caregivers and Non-caregivers ......................................... 19
Alcohol Consumption among Caregivers and Non-caregivers .................................... 19
Smoking Status among Caregivers and Non-caregivers .............................................. 20
Binge Drinking among Caregivers and Non-caregivers .............................................. 20
Flu Shot within the Past Year among Caregivers and Non-caregivers ......................... 20
Pneumonia Vaccine among Caregivers and Non-caregivers ....................................... 21
Care Recipient Gender ..................................................................................................... 21
Age of Care Recipient ....................................................................................................... 22
Appendix B: Figures Kansas BRFSS, 2007 (cont.’d) .................... 15
  Relationship between Caregiver and Care Recipient .............. 22
  Main Problems or Illnesses Identified by Caregiver ............. 22
  Areas in which Care Recipient Requires the Most Assistance .... 23
  Caregivers Greatest Difficulty in Providing Care ................ 23
  Hours Per Week Caregiver Provides for Care Recipient .......... 23
  Duration of Care for Care Recipient ..................................... 24
  Distance of Caregiver to Care Recipient ............................ 24
  Caregiver is the Primary Caregiver for Care Recipient .......... 24
Tables & Figures

TABLES

Table 1. Weighted demographic and health behavior characteristics of caregivers and non-caregivers, Kansas Behavioral Risk Factor Surveillance System (BRFSS), 2007.................8-9
Table 2. Weighted caregiving experience characteristics, Kansas Behavioral Risk Factor Surveillance System (BRFSS), 2007.........................................................10-12

FIGURES (Appendix B)

Results for Caregivers and Non-caregivers, Kansas BRFSS, 2007

Figure 1. Gender of Caregivers and Non-caregivers......................................................15
Figure 2. Age Distribution of Caregivers and Non-caregivers.........................................15
Figure 3. Race/Ethnicity of Caregivers and Non-caregivers.........................................16
Figure 4. Education Status among Caregivers and Non-caregivers................................16
Figure 5. Marital Status of Caregivers and Non-caregivers...........................................16
Figure 6. Employment Status of Caregivers and Non-caregivers..................................17
Figure 7. Disability Status of Caregivers and Non-caregivers.......................................17
Figure 8. Life Satisfaction Levels of Caregivers and Non-caregivers..............................17
Figure 9. How Often Caregivers and Non-caregivers Receive Emotional Support........18
Figure 10. General Health among Caregivers and Non-caregiver..................................18
Figure 11. Physical Activity among Caregivers and Non-caregivers...............................18
Figure 12. Fruit and Vegetable Consumption among Caregivers and Non-caregivers....19
Figure 13. Body Mass Index (BMI) of Caregivers and Non-caregivers...........................19
Figure 14. Alcohol Consumption among Caregivers and Non-caregivers......................19
Figure 15. Smoking Status among Caregivers and Non-caregivers................................20
Figure 16. Binge Drinking among Caregivers and Non-caregivers...............................20
Figure 17. Flu Shot within the Past Year among Caregivers and Non-caregivers Age 65 and Older........................................................................................................20
Figure 18. Pneumonia Vaccine among Caregivers and Non-caregivers Age 65 and Older..................................................................................................................21
Figure 19. Care Recipient Gender....................................................................................21
Figure 20. Age of Care Recipient.....................................................................................22
Figure 21. Relationship between Caregiver and Care Recipient....................................22
Figure 22. Main Problems or Illnesses Identified by Caregiver......................................22
Figure 23. Areas in which Care Recipient Requires the Most Assistance....................23
Figure 24. Caregivers Greatest Difficulty in Providing Care..........................................23
Figure 25. Hours Per Week Caregiver Provides for Care Recipient.........................23
Figure 26. Duration of Care for Care Recipient..............................................................24
Figure 27. Distance of Caregiver to Care Recipient.......................................................24
Figure 28. Caregiver is the Primary Caregiver for Care Recipient..............................24
Characteristics of Caregivers and Care Recipients—Kansas, 2007

These data are from the 2007 Kansas Behavioral Risk Factor surveillance System (BRFSS) and are designed to provide estimates of the adult, non-institutionalized population in Kansas.

Caregiving and the Caregiver Module

America’s 53.4 million caregivers form an integral and frequently unrecognized part of the health care team, providing an estimated $257 to $389 billion in unpaid care to individuals with disabilities and chronic disease.¹ These informal or family caregivers may be a family member, friend, or neighbor of a person with a disability or chronic health condition. Currently, the prevalence of caregiving and the health impacts of caregiving are not known at the state and local level. State and federal agencies, as well as private organizations are concerned about issues surrounding caregiving and could employ these data to design needed programs and interventions to address an increasingly important public health issue. Many community and public health groups also express interest in specific conditions as they relate to caregiving—notably cancer, Alzheimer’s and dementia, and developmental disabilities. Thus, there is an emerging and increasing audience requiring this information. Learning more about caregivers and how their caregiving activities impact their risk of poor health outcomes will improve our understanding of how to provide support to them, in turn improving the ability of care recipients to maintain independence and experience an improved quality of life.

During the past four years, the National Center on Birth Defects and Development Disabilities (NCBDDD) at the Centers for Disease Control and Prevention (CDC) has made a systematic attempt to adequately identify and describe caregivers as part of the total health care system, and to identify public health dimensions of caregiving. One result of this work has been the development of the Caregiver Module, a series of questions about caregivers and their experiences that can be added to the Behavioral Risk Factor Surveillance System (BRFSS).² The BRFSS is a state-based, random-digit-dialed (RDD) telephone survey of non-institutionalized U.S. adults aged 18 and older. This survey is administered by state health agencies, territories, and in the District of Columbia with assistance from the CDC.³ The Caregiver Module is designed to collect information about a population-based sample of adult caregivers (age 18 and older) who care for individuals with a disability or chronic condition regardless of the individual’s age, level of need, or diagnosis. Data are weighted so that people who respond to surveys represent the entire state of Kansas based on age, gender, and race.

Caregiving in Kansas

In previous years, Kansas mirrored the aging trends in the United States, though the proportion of Kansans age 65 and older is higher than the national average. According to Census Bureau projections, by the year 2030, the population of Kansas will increase by 252,000, and the largest increase (237,000 people) will be that in the age 65 and older age category, translating to nine out of every ten new Kansans in the next 25 years will be age 65 years or above.⁴ Because the risk of disability increases with age, it is expected that as the population ages, the need for informal caregivers will increase as well. Therefore, it is imperative to acknowledge the role caregivers will play in the state’s health care system, and to understand the characteristics of these caregivers.
To study the characteristics and health of caregivers and their care recipients in the state of Kansas, the eleven question Caregiver Module was added to the 2007 Kansas BRFSS (Appendix A, pages 13-14). The 2007 Kansas BRFSS not only allows for the analysis of demographic differences among caregivers and non-caregivers but also assesses health behaviors, such as exercise frequency, smoking status, and alcohol use. In addition, through the use of this module, caregivers can be compared to non-caregivers on quality of life measures such as general life satisfaction, the amount of emotional and social support received, and self-reported general health status.

During 2007, 4,208 Kansas BRFSS respondents were asked, “People may provide regular care or assistance to someone who has a long-term illness or disability. During the past month, did you provide any such care or assistance to a family member or friend?” A total of 498 people, or 11.0% (weighted) of these respondents said “yes” to this question. These respondents were classified as caregivers and answered the remaining Caregiver Module questions about themselves and their care recipient. (Note: if the caregiver reported providing care to more than one recipient, the caregiver was asked to answer the remaining questions based on the recipient who required the most care).

Questions on the Caregiver Module included the age and gender of the care recipient and their relationship to the caregiver. Module questions also assessed the major health problem of the care recipient, and up to two areas in which the care recipient required the most assistance. Other questions asked the caregiver if they were the primary caregiver for the care recipient, how long they have provided care for the recipient, the average number of hours per week they provided care, how far they lived from their care recipient, and their greatest difficulty faced as a caregiver. The complete Caregiver Module used on the 2007 Kansas BRFSS appears in Appendix A, pages 13-14.

**Data Analysis:**

In order to understand the best way to target and serve the needs of caregivers, it is necessary to understand who they are. Demographic and health behavior characteristics of caregivers and non-caregivers are presented in Table 1, pages 8-9. A significant majority of caregivers identified in the survey were women (60.5%). The mean age of caregivers was 49.6 years and the mean age of non-caregivers was 46.3 years. Caregivers were less likely to have received a college degree or higher (34.8%) compared to non-caregivers (37.0%). Caregivers were less likely to be employed, a homemaker, or a student compared to non-caregivers (74.1% to 77.9%, respectively). Caregivers and non-caregivers have similar marital status distributions, with approximately 72% married or coupled (Table 1). The most commonly reported race/ethnicity in Kansas was White, non-Hispanic, regardless of caregiver status (93.9% of caregivers and 86.4% of non-caregivers).

Respondents were categorized as having a disability according to the BRFSS definition of disability. If respondents answered “yes” to either of two questions: “Are you limited in any way in any activities because of physical, mental, or emotional problems,” or “Do you now have any health problem that requires you to use special equipment, such as a cane, a wheelchair, a special bed, or a special telephone,” they were classified as having a disability. The prevalence of disability among caregivers and non-caregivers was similar (20.2% and 19.7%).
Health related quality of life (HRQOL) was assessed using the following variables: physical unhealthy days in the last 30 days, mental unhealthy days in the last 30 days, general life satisfaction, emotional support, and general health status. The number of physical unhealthy days was assessed in the question: “Now thinking about your physical health, which includes physical illness and injury, for how many days during the past 30 days was your physical health not good?” Caregivers and non-caregivers reported a similar average number of days in the past month that their physical health was not good; 3.5 and 3.0 respectively. Mentally unhealthy days were assessed as: “Now thinking about your mental health, which includes stress, depression, and problems with emotions, for how many days during the past 30 days was your mental health not good?” Caregivers reported more days per month of poor mental health (3.5 days) than non-caregivers, (2.5). Caregivers rated their general life satisfaction slightly lower than non-caregivers (93.9% compared to 96.5% report feeling very satisfied or satisfied with their life). Emotional support of the respondents was assessed by the question: “How often do you get the social or emotional support you need?” Caregivers reported always or usually receiving the social and emotional support needed less frequently than non-caregivers (81.7% compared to 85.1%). Ratings of general health among caregivers and non-caregivers were nearly identical (87.6% and 87.0% report their general health was excellent, very good, or good).

Caregivers reported meeting physical activity recommendations more often than non-caregivers (53.7% compared to 48.4%), and were less likely to report no physical activity (9.1% compared to 11.4%). Caregivers also reported consuming five or more servings of fruits and vegetables more often than non-caregivers (22.3% compared to 19.3%). Although caregivers reported meeting physical activity recommendations and consuming the recommended amounts of fruits and vegetables more often than non-caregivers, caregivers were more likely to be obese (30.9% of caregivers versus 28.4% of non-caregivers had a body mass index (BMI) of 30 or higher).

The CDC defines heavy drinking as more than two drinks per day for men and more than one drink per day for women. Binge drinking is defined as men having five or more drinks on one occasion, and women having four or more drinks on one occasion. The prevalence of binge drinking in the last 30 days was 12.2% among caregivers and 15.2% among non-caregivers. Nearly three percent of caregivers reported heavy alcohol consumption compared to 4.2% of non-caregivers. Caregivers were more likely to be current smokers than non-caregivers (20.5% compared to 17.4%).

Caregivers age 65 and older were about as likely as non-caregivers of the same age to have received a flu shot within the past year (72.7% compared to 73.2%) but more likely than non-caregivers to have ever received the pneumonia vaccine (70.4% compared to 68.3%).

The results of the eleven question Kansas Caregiver Module based on the 498 identified caregivers are found in Table 2, pages 10-12, and are discussed below. A majority of care recipients were women (59.5%) and age 65 and older (60.3%). Care recipients were most commonly a family member of the caregiver, with a parent or parent-in-law being the most frequently reported relationship (42.7%). Another 16.3% of caregivers provided care for a spouse or a partner, and 10.1% cared for a child or child-in-law. The most common care
recipient diagnosis as reported by the caregiver was cancer (23.7%). Heart disease (13.0%), Alzheimer’s disease or dementia (12.8%), stroke (8.5%), Arthritis/rheumatism (8.2%), and Diabetes (8.2%), completed the list of the six most common diagnoses reported.

Caregivers reported providing the most help in a variety of areas. When asked to choose up to two areas in which their care recipient needed the most help, caregivers reported self-care (46.0%), and moving around (44.5%), both representing activities of daily living, most frequently. When asked the greatest difficulty faced personally, caregivers most often said that caregiving created stress (42.3 %) or caregiving created a financial burden (17.6%). However, 30.2% of caregivers said that caregiving created no difficulty for them.

Overall, 47.9% of caregivers provided zero to eight hours of care in an average week, and 24.9% provided 40 hours of care or more in an average week. Almost one-third (31.3%) of caregivers had provided care for more than 5 years. These caregivers tended to live with the care recipient (36.0%) or within 20 minutes of him/her (41.0%). Among caregivers, 44.9% stated that they were the primary caregiver for the recipient about whom they answered the survey.
References


Table 1

Table 1: Weighted demographic and health behavior characteristics of caregivers and non-caregivers, Kansas Behavioral Risk Factor Surveillance System (BRFSS), 2007.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Categories</th>
<th>Caregivers (n=498)</th>
<th>Non-caregivers (n=3561)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Percent (95% CI)</td>
<td>Percent (95% CI)</td>
</tr>
<tr>
<td>Age</td>
<td>18-24</td>
<td>6.2% (3.3-11.2)</td>
<td>8.4% (7.0-10.1)</td>
</tr>
<tr>
<td></td>
<td>25-34</td>
<td>13.7% (9.6-19.1)</td>
<td>24.3% (22.3-26.4)</td>
</tr>
<tr>
<td></td>
<td>35-44</td>
<td>17.2% (13.5-21.7)</td>
<td>17.9% (16.4-19.5)</td>
</tr>
<tr>
<td></td>
<td>45-54</td>
<td>22.7% (18.8-27.1)</td>
<td>18.9% (17.5-20.4)</td>
</tr>
<tr>
<td></td>
<td>55-64</td>
<td>22.3% (18.8-26.2)</td>
<td>13.1% (12.1-14.2)</td>
</tr>
<tr>
<td></td>
<td>65 and older</td>
<td>17.9% (14.9-21.5)</td>
<td>17.4% (16.3-18.6)</td>
</tr>
<tr>
<td>Gender (% Female)</td>
<td>Female</td>
<td>60.5% (55.0-65.7)</td>
<td>49.9% (47.9-51.9)</td>
</tr>
<tr>
<td>Education status</td>
<td>Less than or graduated high School</td>
<td>33.8% (28.9-39.1)</td>
<td>35.5% (33.5-37.4)</td>
</tr>
<tr>
<td></td>
<td>Some college or technical School</td>
<td>31.4% (26.7-36.5)</td>
<td>27.5% (25.7-29.4)</td>
</tr>
<tr>
<td></td>
<td>College degree or higher</td>
<td>34.8% (30.0-39.8)</td>
<td>37.0% (35.1-39.0)</td>
</tr>
<tr>
<td>Employment status</td>
<td>Employed/Homemaker/Student</td>
<td>74.1% (69.7-78.1)</td>
<td>77.9% (76.4-79.3)</td>
</tr>
<tr>
<td></td>
<td>Unemployed/Unable to work/Retired</td>
<td>25.9% (21.9-30.3)</td>
<td>22.1% (20.7-23.6)</td>
</tr>
<tr>
<td>Race/ethnicity</td>
<td>White only, non-Hispanic</td>
<td>93.9% (91.1-95.9)</td>
<td>86.4% (84.7-87.9)</td>
</tr>
<tr>
<td></td>
<td>Black only, non-Hispanic</td>
<td>2.3% (1.3-4.2)</td>
<td>2.8% (2.2-3.4)</td>
</tr>
<tr>
<td></td>
<td>Other only, non-Hispanic</td>
<td>0.7% (0.2-2.8)</td>
<td>2.8% (2.2-3.7)</td>
</tr>
<tr>
<td></td>
<td>Multiracial, non-Hispanic</td>
<td>1.2% (0.5-2.6)</td>
<td>1.0% (0.7-1.5)</td>
</tr>
<tr>
<td></td>
<td>Hispanic</td>
<td>1.9% (0.8-4.1)</td>
<td>7.0% (5.8-8.4)</td>
</tr>
<tr>
<td>Marital status</td>
<td>Married/Coupled</td>
<td>72.0% (66.8-76.6)</td>
<td>71.8% (69.9-73.6)</td>
</tr>
<tr>
<td></td>
<td>Divorced/Widowed/Separated</td>
<td>14.4% (11.6-17.9)</td>
<td>15.2% (14.1-16.4)</td>
</tr>
<tr>
<td></td>
<td>Never married</td>
<td>13.6% (9.7-18.7)</td>
<td>13.0% (11.4-14.9)</td>
</tr>
<tr>
<td>Disability status</td>
<td>Respondent has a disability</td>
<td>20.2% (16.7-24.2)</td>
<td>19.7% (18.3-21.2)</td>
</tr>
<tr>
<td>Table 1: Continued</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>General life satisfaction</strong></td>
<td>Very Satisfied/Satisfied</td>
<td>93.9% (90.9-96.0)</td>
<td>96.5% (95.6-97.2)</td>
</tr>
<tr>
<td><strong>Emotional support</strong></td>
<td>Always or usually receive support needed</td>
<td>81.7% (77.4-85.3)</td>
<td>85.1% (83.6-86.6)</td>
</tr>
<tr>
<td><strong>General health</strong></td>
<td>Excellent, very good, or good</td>
<td>87.6% (83.8-90.7)</td>
<td>87.0% (85.6-88.3)</td>
</tr>
<tr>
<td><strong>Physical activity</strong></td>
<td>Meet physical activity recommendations</td>
<td>53.7% (48.4-58.9)</td>
<td>48.4% (46.3-50.4)</td>
</tr>
<tr>
<td></td>
<td>Insufficient physical activity</td>
<td>37.1% (32.2-42.3)</td>
<td>40.2% (38.2-42.3)</td>
</tr>
<tr>
<td></td>
<td>No physical activity</td>
<td>9.1% (6.9-12.0)</td>
<td>11.4% (10.3-12.7)</td>
</tr>
<tr>
<td><strong>Fruit and vegetable consumption</strong></td>
<td>5 or more servings per day</td>
<td>22.3% (18.2-27.0)</td>
<td>19.3% (17.8-20.9)</td>
</tr>
<tr>
<td><strong>Body Mass Index (BMI)</strong></td>
<td>Neither overweight nor obese</td>
<td>31.8% (27.2-36.9)</td>
<td>34.8% (32.9-36.8)</td>
</tr>
<tr>
<td></td>
<td>Overweight</td>
<td>37.2% (32.1-42.7)</td>
<td>36.8% (34.8-38.8)</td>
</tr>
<tr>
<td></td>
<td>Obese</td>
<td>30.9% (26.2-36.0)</td>
<td>28.4% (26.6-30.3)</td>
</tr>
<tr>
<td><strong>Smoking status</strong></td>
<td>Current Smoker</td>
<td>20.5% (16.5-25.1)</td>
<td>17.4% (15.8-19.1)</td>
</tr>
<tr>
<td></td>
<td>Former Smoker</td>
<td>27.7% (23.2-32.6)</td>
<td>24.0% (22.5-25.7)</td>
</tr>
<tr>
<td></td>
<td>Never Smoked</td>
<td>51.9% (46.6-57.1)</td>
<td>58.6% (56.5-60.5)</td>
</tr>
<tr>
<td><strong>Alcohol consumption</strong></td>
<td>Heavy drinkers (adult men having more than two drinks per day and adult women having more than one drink per day)</td>
<td>2.9% (1.5-5.6)</td>
<td>4.2% (3.4-5.3)</td>
</tr>
<tr>
<td><strong>Binge drinking</strong></td>
<td>Binge drinkers (Men having five or more drinks on one occasion, women having four or more drinks on one occasion)</td>
<td>12.2% (8.6-17.1)</td>
<td>15.2% (13.5-17.1)</td>
</tr>
<tr>
<td><strong>Flu shot</strong></td>
<td>Adults age 65+ who have had flu shot within the past year</td>
<td>72.7% (63.7-80.2)</td>
<td>73.2% (70.2-76.0)</td>
</tr>
<tr>
<td><strong>Pneumonia vaccine</strong></td>
<td>Adults age 65+ who have ever had a pneumonia vaccination</td>
<td>70.4% (60.8-78.5)</td>
<td>68.3% (65.0-71.3)</td>
</tr>
</tbody>
</table>
### Table 2

**Table 2: Weighted caregiving experience characteristics, Kansas Behavioral Risk Factor Surveillance System (BRFSS), 2007.**

<table>
<thead>
<tr>
<th>Variable</th>
<th>Category</th>
<th>Prevalence (95% CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Care recipient gender</td>
<td>Female</td>
<td>59.5% (54.3- 64.6)</td>
</tr>
<tr>
<td>Care recipient age</td>
<td>0-5</td>
<td>3.0% (1.4- 6.4)</td>
</tr>
<tr>
<td></td>
<td>6-17</td>
<td>4.3% (2.4- 7.4)</td>
</tr>
<tr>
<td></td>
<td>18-34</td>
<td>6.6% (4.2- 10.2)</td>
</tr>
<tr>
<td></td>
<td>35-44</td>
<td>3.3% (1.9- 5.7)</td>
</tr>
<tr>
<td></td>
<td>45-54</td>
<td>12.4% (8.8- 17.1)</td>
</tr>
<tr>
<td></td>
<td>55-64</td>
<td>10.2% (7.5- 13.7)</td>
</tr>
<tr>
<td></td>
<td>65-74</td>
<td>15.0% (11.5- 19.2)</td>
</tr>
<tr>
<td></td>
<td>75-84</td>
<td>22.2% (18.3- 26.7)</td>
</tr>
<tr>
<td></td>
<td>85+</td>
<td>23.1% (19.4- 27.3)</td>
</tr>
<tr>
<td>Care recipient’s relationship to caregiver</td>
<td>Parent or Parent-in-law</td>
<td>42.7% (37.6- 48.0)</td>
</tr>
<tr>
<td></td>
<td>Friend</td>
<td>9.2% (6.7- 12.3)</td>
</tr>
<tr>
<td></td>
<td>Spouse or Partner</td>
<td>16.3% (13.0- 20.2)</td>
</tr>
<tr>
<td></td>
<td>Child or Child-in-law</td>
<td>10.1% (7.4- 13.6)</td>
</tr>
<tr>
<td></td>
<td>Sibling or Sibling-in-law</td>
<td>5.1% (3.1- 8.1)</td>
</tr>
<tr>
<td></td>
<td>Grandparent</td>
<td>6.1% (3.4- 10.5)</td>
</tr>
<tr>
<td></td>
<td>Neighbor</td>
<td>1.6% (0.8- 3.2)</td>
</tr>
<tr>
<td></td>
<td>Client or patient</td>
<td>1.4% (0.5- 3.8)</td>
</tr>
<tr>
<td></td>
<td>Other family member</td>
<td>7.6% (5.3- 10.8)</td>
</tr>
<tr>
<td>* Care recipient’s major health problem</td>
<td>Cancer</td>
<td>23.7% (18.2- 30.3)</td>
</tr>
<tr>
<td></td>
<td>Heart disease</td>
<td>13.0% (9.4- 17.8)</td>
</tr>
<tr>
<td></td>
<td>Alzheimer’s disease or dementia</td>
<td>12.8% (9.3- 17.5)</td>
</tr>
<tr>
<td></td>
<td>Stroke</td>
<td>8.5% (5.8- 12.1)</td>
</tr>
<tr>
<td></td>
<td>Arthritis/Rheumatism</td>
<td>8.2% (5.5- 12.3)</td>
</tr>
<tr>
<td>Areas in which care recipient needs most help (respondent could choose up to 2)</td>
<td>Diabetes</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------------------------------</td>
<td>---------------------------</td>
<td></td>
</tr>
<tr>
<td>Learning, remembering, confusion</td>
<td>24.5% (19.9-29.8)</td>
<td></td>
</tr>
<tr>
<td>Seeing or hearing</td>
<td>6.3% (4.0-9.7)</td>
<td></td>
</tr>
<tr>
<td>Self-care</td>
<td>46.0% (40.4-51.7)</td>
<td></td>
</tr>
<tr>
<td>Communicating with others</td>
<td>7.6% (5.4-10.6)</td>
<td></td>
</tr>
<tr>
<td>Moving around</td>
<td>44.5% (39.0-50.2)</td>
<td></td>
</tr>
<tr>
<td>Getting along with people</td>
<td>4.4% (2.5-7.6)</td>
<td></td>
</tr>
<tr>
<td>Feeling anxious or depressed</td>
<td>24.8% (20.3-29.9)</td>
<td></td>
</tr>
<tr>
<td><strong>Greatest difficulty faced by caregiver (respondent could choose up to 2)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Financial burden</td>
<td>17.6% (13.5-22.6)</td>
<td></td>
</tr>
<tr>
<td>Not enough time for him/herself</td>
<td>16.1% (12.8-20.2)</td>
<td></td>
</tr>
<tr>
<td>Not enough time for family</td>
<td>14.8% (11.2-19.3)</td>
<td></td>
</tr>
<tr>
<td>Interferes with work</td>
<td>12.3% (9.0-16.5)</td>
<td></td>
</tr>
<tr>
<td>Creates or aggravates health problems</td>
<td>3.6% (2.3-5.5)</td>
<td></td>
</tr>
<tr>
<td>Affects family relationships</td>
<td>7.8% (5.3-11.3)</td>
<td></td>
</tr>
<tr>
<td>Creates stress</td>
<td>42.3% (37.1-47.7)</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>1.3% (0.6-2.6)</td>
<td></td>
</tr>
<tr>
<td>No difficulty</td>
<td>30.2% (25.8-35.1)</td>
<td></td>
</tr>
<tr>
<td><strong>Care recipient’s distance from caregiver</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Same house</td>
<td>36.0% (31.0-41.4)</td>
<td></td>
</tr>
<tr>
<td>Less than 20 minutes away</td>
<td>41.0% (35.9-46.2)</td>
<td></td>
</tr>
<tr>
<td>20-60 minutes away</td>
<td>13.0% (9.8-17.1)</td>
<td></td>
</tr>
<tr>
<td>1-2 hours away</td>
<td>3.7% (2.4-5.8)</td>
<td></td>
</tr>
<tr>
<td>More than 2 hours away</td>
<td>6.3% (4.2-9.2)</td>
<td></td>
</tr>
<tr>
<td><strong>Respondent is primary caregiver</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>44.9% (39.7-50.2)</td>
<td></td>
</tr>
<tr>
<td><strong>Hours of care provided per week</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-8</td>
<td>47.9% (42.2-53.6)</td>
<td></td>
</tr>
<tr>
<td>9-19</td>
<td>14.0% (10.4-18.6)</td>
<td></td>
</tr>
<tr>
<td>20-39</td>
<td>13.3% (9.8-17.7)</td>
<td></td>
</tr>
<tr>
<td>40+</td>
<td>24.9% (20.3-30.1)</td>
<td></td>
</tr>
<tr>
<td>Length of care</td>
<td>Percentage</td>
<td>Confidence Interval</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>0-3 months</td>
<td>20.0%</td>
<td>(16.0- 24.8)</td>
</tr>
<tr>
<td>4-12 months</td>
<td>23.6%</td>
<td>(19.3- 28.6)</td>
</tr>
<tr>
<td>13-24 months</td>
<td>13.2%</td>
<td>(10.1- 17.2)</td>
</tr>
<tr>
<td>25-60 months</td>
<td>11.8%</td>
<td>(8.9- 15.5)</td>
</tr>
<tr>
<td>More than 5 years</td>
<td>31.3%</td>
<td>(26.6- 36.4)</td>
</tr>
</tbody>
</table>

* Note: 28.7% of respondents (n=133) of responses were classified as “other” for this question. The results presented here are based only on the respondents with categorized responses (n=332).
Appendix A
Caregiver Module

1. People may provide regular care or assistance to a friend or family member who has a health problem or disability. During the past month, did you provide any such care or assistance to a family member or friend?
   1. Yes
   2. No go to the closing
   7. Don’t know / Not sure go to the closing
   9. Refused go to the closing

2. What age is the person to whom you are giving care?
   (Probe for age – If more than one, ask, “What is the age of the person to whom you are giving the most care?”)
   ___ Code age in years [0-115]
   777 Don’t know / Not sure
   999 Refused

3. What is the gender of the person you are caring for?
   1. Male
   2. Female
   7. Don’t know / Not sure
   9. Refused

4. What is his/her relationship to you? For example is he/she your (mother/daughter or father/son)? DO NOT READ. (Program for gender)
   (PROBE for relationship – If more than one, ask “Which is the person you take care of the most often?”)
   (OPTIONAL PROBE – If more than one relationship applies, say “I can only record ONE answer choice,” or something similar to ensure respondent chooses only one option)
   1 Parent
   2 Parent-in-law
   3 Child
   4 Spouse
   5 Sibling
   6 Grandparent
   7 Grandchild
   8 Other Relative
   9 Non-Relative
   77 Don’t know / Not sure
   99 Refused

Optional transition statement: “The following ____ questions will relate to your ___ (code relationship reported above).”

5. What do you think or what has a doctor said is the major health problem that your ____ (Q4 code) has? CHECK ONE CONDITION ONLY. DO NOT READ.
   1 (ADD/ADHD)
   2 AIDS/HIV
   3 Arthritis/rheumatism
   4 Asthma
   5 Cancer
   6 Cerebral Palsy
   7 Chromosomal anomaly
   8 Dementia
   9 Depression
   10 Down’s syndrome
   11 Anxiety and/or other emotional problem
   12 Developmental delays
   13 Diabetes
   14 Eye/vision problem (blindness)
   15 Hearing problems (deafness)
   16 Heart disease
   17 Hypertension/high blood pressure
   18 Lung disease/emphysema
   19 Multiple Sclerosis
   20 Muscular Dystrophy
   21 Osteoporosis
   22 Parkinson’s
   23 Spinal Cord Injury (SCI)
   24 Stroke
   25 Traumatic Brain Injury (TBI)
   26 Other (__________)
   27 Alzheimer’s
   77 Don’t know / Not sure
   99 Refused

6. Which TWO of the following areas does your ____ (Q4 code) most need your help? CHECK UP TO TWO
   1 Learning, remembering, & confusion;
   2 Seeing or hearing;
   3 Taking care of oneself, such as eating, dressing, bathing, or toileting;
   4 Communicating with others;
   5 Moving around;
6 Getting along with people;
7 Feeling anxious or depressed;
77 Don’t know / Not sure
99 Refused

7. For how long have you provided care for your ______(Q4 code)? DO NOT READ. Code using respondent’s unit of time
   _ _ Days
   _ _ Weeks
   _ _ Months
   _ _ Years
777 Don’t know / Not sure
999 Refused

8. In an average week, how many hours do you provide care for your ___ (Q4 code) because of his/her long-term illness or disability? DO NOT READ
   Hours per week
   555 None
   777 Don’t know / Not sure
   999 Refused

9. I am going to read a list of difficulties you may have faced as a caregiver. Please indicate which TWO of the following is the greatest difficulty you have faced in your caregiving: CHECK UP TO TWO
   1 Caregiving creates a financial burden;
   2 Caregiving doesn’t leave enough time for yourself;
   3 Caregiving doesn’t leave enough time for your family;
   4 Caregiving interferes with your work;
   5 Caregiving creates or aggravates health problems;
   6 Caregiving affects your family relationships;
   7 Caregiving creates stress;
   8 Another difficulty (TEXT FIELD)
   9 No difficulty
   77 Don’t know / Not sure
   99 Refused

10. How far away do you live from your ____ (Q4 code)? Do you live
    1 In the same house
    2 Less than 20 minutes away
    3 Between 20 & 60 minutes away
    4 Between 1 & 2 hours away, or
    5 More than 2 hours away
    7 Don’t know / Not sure
    9 Refused

11. Are you the primary caregiver for your___________ ; that is the one most involved in providing care for this person?
    1 Yes
    2 No
    7 Don’t know / Not sure
    9 Refused
Appendix B: Figures
Kansas BRFSS, 2007

Figure 1: Gender of Caregivers and Non-caregivers, Kansas BRFSS, 2007

Gender of Caregivers and Non-caregivers

<table>
<thead>
<tr>
<th>Gender</th>
<th>Caregivers</th>
<th>Non-caregivers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>39.5%</td>
<td>60.5%</td>
</tr>
<tr>
<td>Female</td>
<td>50.1%</td>
<td>49.9%</td>
</tr>
</tbody>
</table>

Figure 2: Age Distribution of Caregivers and Non-caregivers, Kansas BRFSS, 2007

Age of Caregivers and Non-caregivers

<table>
<thead>
<tr>
<th>Age</th>
<th>Caregivers</th>
<th>Non-caregivers</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-24</td>
<td>6.2%</td>
<td>8.4%</td>
</tr>
<tr>
<td>25-34</td>
<td>13.7%</td>
<td>24.3%</td>
</tr>
<tr>
<td>35-44</td>
<td>17.2%</td>
<td>17.9%</td>
</tr>
<tr>
<td>45-54</td>
<td>22.7%</td>
<td>18.9%</td>
</tr>
<tr>
<td>55-64</td>
<td>22.3%</td>
<td>13.1%</td>
</tr>
<tr>
<td>65 and older</td>
<td>17.9%</td>
<td>17.4%</td>
</tr>
</tbody>
</table>
Figure 3: Race/Ethnicity of Caregivers and Non-Caregivers, Kansas BRFSS, 2007

Race of Caregivers and Non-caregivers

<table>
<thead>
<tr>
<th></th>
<th>Caregivers</th>
<th>Non-caregivers</th>
</tr>
</thead>
<tbody>
<tr>
<td>White only, non-Hispanic</td>
<td>93.9%</td>
<td>86.4%</td>
</tr>
<tr>
<td>Black only, non-Hispanic</td>
<td>2.3%</td>
<td>2.8%</td>
</tr>
<tr>
<td>Other only, non-Hispanic</td>
<td>0.7%</td>
<td>2.8%</td>
</tr>
<tr>
<td>Multiracial, non-Hispanic</td>
<td>1.2%</td>
<td>1.0%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1.9%</td>
<td>7.0%</td>
</tr>
</tbody>
</table>

Figure 4: Education Status among Caregivers and Non-caregivers, Kansas BRFSS, 2007

Education Status among Caregivers and Non-caregivers

<table>
<thead>
<tr>
<th>Education Status</th>
<th>Caregivers</th>
<th>Non-caregivers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than or graduated high school</td>
<td>33.8%</td>
<td>35.5%</td>
</tr>
<tr>
<td>Some college or technical school</td>
<td>31.4%</td>
<td>27.5%</td>
</tr>
<tr>
<td>College degree or higher</td>
<td>34.8%</td>
<td>37.0%</td>
</tr>
</tbody>
</table>

Figure 5: Marital Status of Caregivers and Non-caregivers, Kansas BRFSS, 2007

Marital Status among Caregivers and Non-caregivers

<table>
<thead>
<tr>
<th>Marital Status</th>
<th>Caregivers</th>
<th>Non-caregivers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Married/Coupled</td>
<td>72.0%</td>
<td>71.8%</td>
</tr>
<tr>
<td>Divorced/Widowed/Separated</td>
<td>14.4%</td>
<td>15.2%</td>
</tr>
<tr>
<td>Never Married</td>
<td>13.6%</td>
<td>13.0%</td>
</tr>
</tbody>
</table>
Figure 6: Employment Status of Caregivers and Non-caregivers, Kansas BRFSS, 2007

Employment Status among Caregivers and Non-caregivers

- Employed/Homemaker/Student: 74.1% (Caregivers) vs. 77.9% (Non-caregivers)
- Unemployed/Unable to work/Retired: 25.9% (Caregivers) vs. 22.1% (Non-caregivers)

Figure 7: Disability Status of Caregivers and Non-caregivers, Kansas BRFSS, 2007

Disability Status among Caregivers and Non-caregivers

- Yes: 20.2% (Caregivers) vs. 19.7% (Non-Caregivers)
- No: 79.8% (Caregivers) vs. 80.3% (Non-Caregivers)

Figure 8: Life Satisfaction Levels of Caregivers and Non-caregivers, Kansas BRFSS, 2007

Life Satisfaction Levels among Caregivers and Non-caregivers

- Very Satisfied/ Satisfied: 93.9% (Caregivers) vs. 96.5% (Non-caregivers)
- Dissatisfied/ Very Dissatisfied: 6.1% (Caregivers) vs. 3.5% (Non-caregivers)
Figure 9: How Often Caregivers and Non-caregivers Receive Emotional Support, Kansas BRFSS, 2007

![Bar chart showing emotional support]

Figure 10: General Health among Caregivers and Non-caregivers, Kansas BRFSS, 2007

![Bar chart showing general health]

Figure 11: Physical Activity among Caregivers and Non-caregivers, Kansas BRFSS, 2007

![Bar chart showing physical activity]
Figure 12: Fruit and Vegetable Consumption among Caregivers and Non-caregivers, Kansas BRFSS, 2007

![Graph showing fruit and vegetable consumption](image)

Figure 13: Body Mass Index (BMI) of Caregivers and Non-caregivers, Kansas BRFSS, 2007

![Graph showing BMI distribution](image)

Figure 14: Alcohol Consumption among Caregivers and Non-caregivers, Kansas BRFSS, 2007

![Graph showing alcohol consumption](image)
Figure 15: Smoking Status among Caregivers and Non-caregivers, Kansas BRFSS, 2007

Smoking status among Caregivers and Non-caregivers

- Current smoker: Caregivers 20.5%, Non-caregivers 17.4%
- Former smoker: Caregivers 27.7%, Non-caregivers 24.0%
- Never smoked: Caregivers 51.9%, Non-caregivers 58.6%

Figure 16: Binge Drinking among Caregivers and Non-caregivers, Kansas BRFSS, 2007

Self-Reported Binge Drinking among Caregivers and Non-caregivers

- No: Caregivers 87.8%, Non-caregivers 84.8%
- Yes: Caregivers 12.2%, Non-caregivers 15.2%

Figure 17: Flu Shot within the Past Year among Caregivers and Non-caregivers Age 65 and Older, Kansas BRFSS, 2007

Flu Shot among Caregivers and Non-caregivers

- Yes: Caregivers 72.7%, Non-caregivers 73.2%
- No: Caregivers 27.3%, Non-caregivers 26.8%
Figure 18: Pneumonia Vaccine among Caregivers and Non-caregivers Age 65 and Older, Kansas BRFSS, 2007

Pneumonia Vaccine among Caregivers and Non-caregivers

<table>
<thead>
<tr>
<th></th>
<th>Yes (%)</th>
<th>No (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caregivers</td>
<td>70.4%</td>
<td>29.6%</td>
</tr>
<tr>
<td>Non-caregivers</td>
<td>68.3%</td>
<td>31.7%</td>
</tr>
</tbody>
</table>

Profile of Care Recipients:

Figure 19: Care Recipient Gender, Kansas BRFSS, 2007

Care Recipient Gender

<table>
<thead>
<tr>
<th>Gender</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Men</td>
<td>40.5%</td>
</tr>
<tr>
<td>Women</td>
<td>59.5%</td>
</tr>
</tbody>
</table>
Figure 20: Age of Care Recipient, Kansas BRFSS, 2007

Figure 21: Relationship between Caregiver and Care Recipient, Kansas BRFSS, 2007

Figure 22: Main Problems or Illnesses Identified by Caregiver, Kansas BRFSS, 2007
Figure 23: Areas in which Care Recipient Requires the Most Assistance, Kansas BRFSS, 2007

Areas in which Care Recipient Needs Most Help

- Learning, remembering, confusion: 24.8%
- Seeing or hearing: 24.5%
- Self-care: 6.3%
- Communicating with others: 44.5%
- Moving around: 4.4%
- Getting along with people: 24.8%
- Feeling anxious or depressed: 7.6%

Figure 24: Caregivers Greatest Difficulty in Providing Care, Kansas BRFSS, 2007

Greatest Difficulties Faced by Caregivers

- Financial burden: 17.6%
- Not enough time for him/herself: 30.2%
- Not enough time for family: 14.8%
- Interferes with work: 14.8%
- Creates or aggravates health problems: 16.1%
- Affects family relationships: 12.3%
- Creates stress: 7.8%
- Other: 3.6%
- No difficulty: 42.3%

Figure 25: Hours Per Week Caregiver Provides for Care Recipient, Kansas BRFSS, 2007

Hours per Week that the Caregiver Provides Care to the Care Recipient

- 0-8 HR/WK: 47.9%
- 9-19 HR/WK: 24.9%
- 20-39 HR/WK: 14.0%
- 40+ HR/WK: 13.3%
Figure 26: Duration of Care for Care Recipient, Kansas BRFSS, 2007

Length of Care the Caregiver Provided to Care Recipient

- 0-3 months: 13.2%
- 4-12 months: 31.3%
- 13-24 months: 23.6%
- 25-60 months: 11.8%
- More than 5 years: 20.0%

Figure 27: Distance of Caregiver to Care Recipient, Kansas BRFSS, 2007

Care Recipient Distance from Caregiver

- In the same house: 6.3%
- Less than 20 minutes away: 3.7%
- Between 20 and 60 minutes away: 36.0%
- Between 1 and 2 hours away: 41.0%
- More than two hours away: 13.0%

Figure 28: Caregiver is the Primary Caregiver for Care Recipient, Kansas BRFSS, 2007

Respondent is the Primary Caregiver for Care Recipient

- Yes: 44.9%
- No: 55.1%