





This is to certify that the dissertation entitled

THE PREDICTORS OF THE ELDER CARE EXPERIENCE BY ADULT CHILDREN

presented by

DEBRA LYNN SIETSEMA

has been accepted towards fulfillment of the requirements for the

degree in

Ph.D.

Department of Family and Child Ecology

Borbaca D.

Major Professor's Signature

12-4-05

Date

MSU is an Affirmative Action/Equal Opportunity Institution

PLACE IN RETURN BOX to remove this checkout from your record. TO AVOID FINES return on or before date due. MAY BE RECALLED with earlier due date if requested.

DATE DUE	DATE DUE	DATE DUE
MAR 1 7 2011		
092017		
	<u> </u>	

THE PREDICTORS OF THE ELDER CARE EXPERIENCE BY ADULT CHILDREN

By .

Debra Lynn Sietsema

A DISSERTATION

•

Submitted to Michigan State University in partial fulfillment of the requirements for the degree of

DOCTOR OF PHILOSOPHY

Department of Family and Child Ecology

ABSTRACT

THE PREDICTORS OF THE ELDER CARE EXPERIENCE BY ADULT CHILDREN

By

Debra Lynn Sietsema

Elder care provided by adult children is a challenge faced by an increasing number of families. Most caregiving research has focused on the negative aspects of the caregiving experience. Based on Human Ecology theory, this investigation examined caregiving circumstances, resources, and deterrents as predictors of the intergenerational caregiver experience. A sample of 541 unpaid daughters and sons who were primary caregivers of their elderly parents were surveyed as part of the National Long Term Care Survey (NLTCS) in 1999. The National Informal Caregivers Survey (NICS) of the NLTCS was used for this study. Analyses included correlations, multiple regression, path analysis, t-tests, and one-way ANOVAs. Positive and negative outcomes of the caregiving experience were included: self-esteem, appreciation of life, energy expenditure, stress level, physical strain, and financial hardship. Caregiving time, the amount of care provided, external support, coping behaviors, and care recipient helpful behaviors predicted energy expenditure, stress level, physical strain, and financial hardship. Family or friend support, and care recipient helpful and difficult behaviors predicted self-esteem, and family or friend support and care recipient difficult behaviors predicted appreciation of life. Additionally, family or friend support, care recipient difficult behaviors, family conflict, and caregiving issues mediated the caregiving circumstances on the caregiving outcomes.

Caregiving sons and daughters differed, and daughters had a greater appreciation of life while experiencing greater energy expenditure and enduring greater financial hardship as a result of the caregiving experience. There was no significant difference in caregiving outcomes between sons and daughters when considering age and longevity of care. A comparative study of the next wave of NICS data from 2004 would be important for current implications for nursing practice and a qualitative approach would assist in further examining meanings embedded in the emotional response and feelings in the use of resources, deterrents, and outcomes of the caregiving experience. Realizing the predictors of the caregiving experience will assist in promoting caregiver and family wellbeing.

Copyright by

Debra Lynn Sietsema

DEDICATION

This study is dedicated to my husband, Mark, who provides steadfast love,

patience, genuine caring, encouragement, understanding, and support.

ACKNOWLEDGMENTS

A project of this magnitude could not have been completed without the support and assistance of many people. The investigator acknowledges gratitude to the following people:

Very special appreciation and respect is given to Barbara Ames, the dissertation committee chairperson, who has provided guidance, encouragement, and insightful comments.

Sincere thanks to Tom Luster for his expertise in secondary statistical analysis, thoughtful recommendations, and his perception to view aspects in another way. The other committee members, Marsha Carolan and Linda Spence, are recognized for their recommendations, interest, and willingness to spend time and energy.

Distinct recognition is given to my sons, Ryan and Kevin, for their cooperation, demonstration of pride in me, and for helping me to keep a focus on family priorities and a perspective on life throughout this project.

Thoughtful consideration is given to my parents, Cornie and Marie DeVos, for the lifelong values that they have instilled which have facilitated my achievements. Above all, credit and thankfulness is given to God for the gifts and abilities He has bestowed upon me.

vi

TABLE OF CONTENTS

LIST OF TABLES	ix
LIST OF FIGURES	xi
CHAPTER 1: INTRODUCTION Background Purpose of Study Significance of Problem Theoretical Frameworks Human Ecology Life Course Perspective. Conceptual Model Assumptions Assumptions of the Human Ecology Theory Assumptions of the Life Course Perspective Theory Assumptions of the Life Course Perspective Theory Assumptions of this Study. Rationale for the Present Study Study Type and Limitations.	1 2 3 4 7 10 12 12 13 14 14 15
CHAPTER 2: REVIEW OF THE LITERATURE. Caregiver Characteristics. Care Recipient Characteristics. Caregiving Circumstances. Caregiving Resources. Caregiving Deterrents. Caregiving Outcomes. Summary.	17 17 22 23 27 27 35
CHAPTER 3: METHODOLOGY NLTCS Research Study Sample Research Design Research Objectives Research Questions and Hypotheses. Research Variables Dependent Variables Independent Variables Caregiving Circumstances Variables.	37 37 38 39 41 41 44 44 46 46

Resources Variables	48
Deterrents Variables	51
Reliability Analyses of Variables	53
Data Analysis	54
•	
CHAPTER 4:	
RESULTS OF DATA ANALYSES	60
Descriptive Statistics	60
Predictor Variables	63
Type of Care Provided	63
Resources	64
Deterrents	65
Outcome Variables	65
Correlations Among Variables	66
Correlations Between Predictor Variables	74
	74
Correlations Between Predictor Variables and Outcome	70
Variables	75
Correlations Between Outcome Variables	75
Multiple Regression Analysis	76
Path Analysis	81
Comparison of Groups	90
Summary of Results	94
Research Question 1	94
Research Question 2	95
Research Question 3	95
Research Questions 4 & 5	96
Research Question 6	97
Research Questions 7 & 8	97
	•••
CHAPTER 5:	
DISCUSSION AND CONCLUSIONS	98
Summary and Discussion of Findings	98
Limitations of the Study	107
Implications for Practice, Education, and Recommendations for	107
Future Research	109
Practice	109
Education	111
	112
Research	112
APPENDICES	
	147
APPENDIX A: 1999 NLTCS Caregiver Survey	117
APPENDIX B: UCRIHS Approval Letter	146
REFERENCES	148

THE PREDICTORS OF THE ELDER CARE EXPERIENCE BY ADULT CHILDREN CHAPTER 1 Introduction

Background

Life expectancy in the United States is increasing, and this greater longevity increases the risk of chronic medical conditions, which may require increasingly expensive long term care. Care provided by family members contributes to the maintenance of dependent elderly persons in the community, reducing societal costs and increasing quality of life for the elderly. Concurrently, families have fewer children to provide intergenerational care, and women are in the workforce in greater numbers, decreasing their availability for caregiving of elderly parent(s). Many adult children are faced with the decision to care for elderly parent(s), and most families are committed to do so. Understanding the many factors related to caregiving experiences and the relationships among them will enable professionals to address the needs of caregivers, care recipients, and families of caregivers. The role of the healthcare and family professional is to facilitate positive outcomes of the caregiving experience as the caregiver utilizes resources and balances multiple demands, issues, and concerns.

Understanding the factors that predict caregiving outcomes will help professionals empower family caregivers. It is important to assess caregiver risk for negative outcomes to decrease or alter these outcomes. However, another

approach is to enhance the resources and to emphasize the strengths and predictors for outcomes that may affect the experience and facilitate an overall understanding and promotion of caregiving benefits for the elderly parent, caregiver, the family, and the intergenerational relationship. It may be possible to optimize certain predictors to improve outcomes. Knowledge of predictors and outcomes also can be the basis for interventions that could improve the caregiving experience.

Purpose of Study

The purpose of this study was to determine the predictors of the intergenerational caregiving experience. Kramer (1997a) identified four important reasons to investigate caregiving. First, positive as well as negative aspects of caregiving are reported by caregivers, and caregivers are willing to share the positive results of caregiving. Caregivers report that giving care to an elderly parent increases their feelings of pride in their ability to meet challenges, improves their sense of self-worth, leads to greater closeness in relationships and provides an enhanced sense of meaning, warmth and pleasure. The second important potential contribution is that understanding positive and negative predictors and outcomes of caregiving may help professionals work more effectively with the family caregiver. Caregiving research may provide insights into how to enhance or increase the positive aspects of caregiving to offset potential negative outcomes. Professionals can validate feelings and experiences and promote a positive experience. Third, outcomes of caregiving experiences may be important determinants of the quality of care provided to

older adults. Lastly, information may be provided that could enhance theories of caregiver adaptation and psychological well-being.

Significance of the Problem

The United States Administration on Aging (AOA) (2004) reports that the population age 65 and older is projected to double within the next 30 years, growing to 70 million by 2030. Additionally, the AOA reports that the overall health of the elderly has improved, but since the life expectancy has lengthened and the number of elderly persons has dramatically increased, there is an increasing need for care. People aged 85 and older comprise the fastest growing population group, and the prevalence of disability is 58 percent (United States Administration Agency on Aging, 2004; U.S. Senate Special Committee on Aging, 2004). Of those elderly persons with disabilities living in the community and receiving care, 64 percent relied exclusively on informal unpaid care from relatives. Considering the increased number of elderly persons in the United States, caregiving for the elderly has become a major research concern.

Providing care to elderly parent(s) is a challenge faced by an increasing number of families. The U.S. Special Committee on Aging (2004) reported that there are 22 million family caregivers, and the number of families providing care to older relatives is expected to increase substantially in the next few decades. Among people between the ages of 45 and 55, over 80 percent have at least one living parent.

Research has revealed characteristics of caregivers, the type and amount of caregiving activities performed, and the negative effects of caregiving for

primary caregivers. The National Allliance for Caregiving and American Association of Retired Persons (2004) provide recent demographics of caregivers of the elderly. They estimate that sixteen percent of the U.S. population provides unpaid care to the elderly. Typically, primary caregivers of the elderly are daughters with an average age of 47. The elderly care recipients have an average age of 75 and are mothers, grandmothers, or fathers. Fifty-nine percent of the female caregivers are employed full-time, 62% are married, and they provide care for at least 4.3 years, with an increasing number providing care for ten years or more.

Caregiving research has focused on the primary caregiver and the negative aspects of caregiving. There is very little information related to the benefits of caregiving and the effects of caregiving on the caregiver's family.

Theoretical frameworks

Concepts from human ecology theory (Bubolz & Sontag, 1993) and a life course perspective (Bengston & Allen, 1993; Price, McKenrry, & Murphy, 2000) were used to determine predictors of the intergenerational caregiving experience. These concepts formulate a conceptual model of adaptation and appraisal of the caregiving experience as it occurs in the life course.

Human Ecology

Caregiving represents a dynamic process of interaction with and appraisal of the environment, a basic principle of the ecological perspective. The individual caregiver or family unit in interaction with the environment constitutes an ecosystem. The family ecosystem model includes three environments in which

the family interacts: the natural physical-biological, the social-cultural, and the human-built environments. The social-cultural environment includes the relationship of other people to the family, cultural constructions such as norms, cultural values, and patterns of behavior, and social and economic institutions that influence behavior (Bubolz & Sontag, 1993). Families interact with and are interdependent with the influences of these environments. While all three of the environments are important to the ecosystem, this study focuses on the relationship of the social-cultural environment to the caregiving family.

Bubolz and Sontag (1993) conceptualize the family ecosystem structure as families of diverse characteristics (structure, ethnic origin, life stage, and socioeconomic status) with individual and family attributes (needs, values, goals, resources, and artifacts) interacting in and with diverse environments (natural physical-biological, human built, and social-cultural). The family ecosystem involves the transformation of matter-energy expenditure and information by engaging in adaptation through activities and processes (perception, decision making, sustenance activities, organization, management, human development, communication, and use of technology). The outcomes of these family ecosystem structures and processes occur at the micro and macro levels to affect the quality of life of humans and the quality of the environment to achieve consequences for the realization of values and environmental goals (human betterment and stewardship and sustainability of the environment). A continual interactive feedback loop influences family structure, process, and outcome within the environment.

The family ecology model lends itself to exploring the adaptation and social-cultural influences when adult children care for their elderly parent(s). The social-cultural environment encompasses family characteristics, values, needs, the use of resources, and decision-making related to problem solving and achieving family goals (Bubolz & Sontag, 1993). The contextual and attribute variables of the caregiver and the care recipient are inherent in the social-cultural environment. Support and resources also are within the social-cultural environment. Adaptation is vital in the caregiving process. The caregiver's appraisal of the caregiving experience is key to adaptation when the caregiver is faced with resources and deterrents. The adaptation (utilization of resources, response to deterrents, modification of behavior, feelings) that families make to meet changed member or care recipient demands is an important ecological concept (Bristor, 1990). The extent to which resources such as external support, family or friend support, and coping strategies are utilized can determine adaptation and perception of the caregiving outcomes. In the context of the environments, adult children and families adapt to meet changing needs. Adaptation allows families to respond to the disequilibrium that can occur when elder care is needed. The outcome of the human ecology theory and the outcome of the caregiving experience is to achieve quality of life and human betterment.

Other ecological concepts important to this study include resources, time, space, and energy. Resources are important to the appraisal of the caregiving experience and its outcome, and resources in this study include external support,

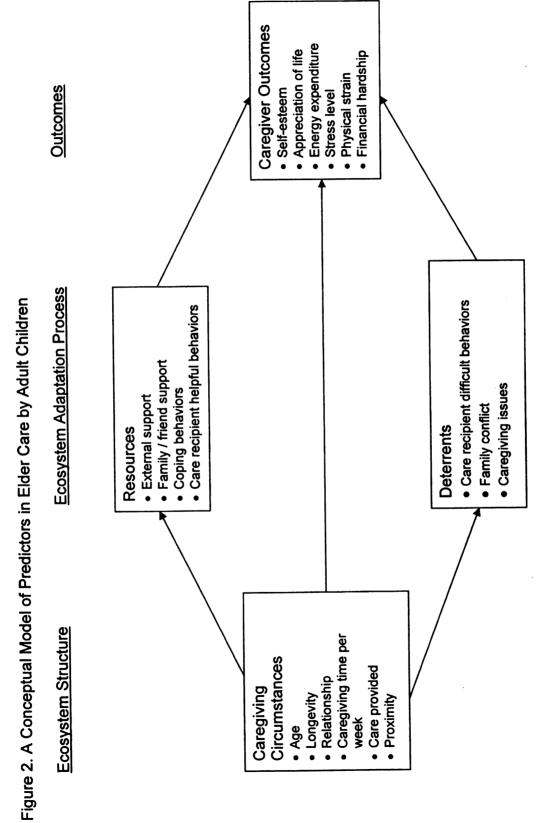
such as respite care, family or friend support, coping behaviors, and care recipient helpful behaviors. Caregiver, care recipient, and the caregiving circumstances also may provide resources that influence the caregiving outcome. Length of time providing care and the amount of time spent in caregiving each week also can shape the perception of the experience. Space, such as the co-residence or proximity of residence of the caregiver could affect the intergenerational care. Space can be considered conceptually when other family members distance themselves from care or do not provide assistance in care. Also, the concept of energy for the ongoing care needed, the ability to utilize effective coping, and to manage deterrents appropriately is necessary to sustain caregiving activities for a positive outcome.

Life Course Perspective

A life course perspective provides the opportunity to view the family dynamics at different points in time. This perspective emphasizes the importance of time, context, process, and meaning of family life (Bengtson & Allen, 1993). Time was previously addressed in relation to ecological concepts. Time from a life course perspective considers individual time, generational time, and historical time (Price, McKenry, & Murphy, 2000). Individual time relates to the stage in which adult children are channeled into the caregiver role. Generational time refers to the rank order of positions held in the family, indicating that the adult child is in the following generation for provision of care for the elderly parent. Historical time focuses on societal or macro level changes over time, which could influence external resources and economics of caregiving.

The social structural context influences the caregiving process through the caregiving circumstances, the resources of support, family or friend support, and family conflict. The context also can refer to the cultural values and norms that may affect the caregiving experience. Lastly, meaning is related to the perception or appraisal of the situation. The degree to which one can create meaning of the situation or events can relate to the feeling of satisfaction regarding the outcome.

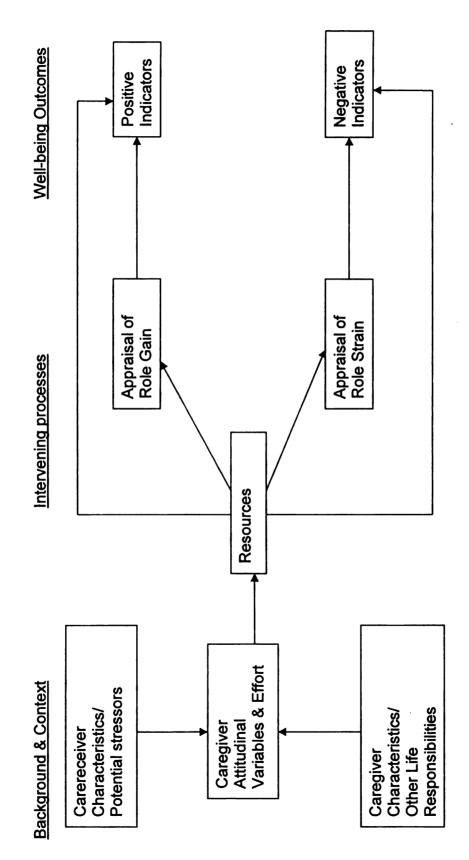
Kramer (1997a) suggests a conceptual model (see Figure 1) for caregiver adaptation that includes three primary domains including background and context, intervening processes, and well-being outcomes. Care recipient and caregiver characteristics and the context of the caregiving situation play a central role in understanding all other aspects of the caregiver's experience (Kramer & Kipnis, 1995). The context also includes the stressors that the caregiver must manage for adaptation to the situation. The nature and duration of the health condition of the care recipient can influence the resources that will be needed. Other role responsibilities, such as parenting or employment, can compound issues for the caregiver. Another component of the model is the intervening process, which includes the resources utilized. Internal resources can include coping strategies, and external resources are factors such as social support and respite services. Lastly, outcomes in the Kramer model can be positive or negative factors. Kramer (1997a) suggests that predictors of positive outcomes should include environmental mastery, personal growth, purpose in life, and selfacceptance.



Conceptual Model

Figure 2 represents the conceptual model for this study. It is an adaptation of Kramer's model that also considers family ecology theory and the life course perspective. This conceptual model integrates this study's variables and research questions.

Figure 1. A Conceptual Model of Caregiver Adaptation



Note. From "Gain in the caregiving experience: Where are we? What next?" by B. Kramer, 1997a, *The Gerontologist*, 37(2), p. 229.

Assumptions

Assumptions of the Human Ecology Theory

The following assumptions of the human ecology theory are from Bubolz and Sontag (1993):

- The properties of families and the environment, the structure of environmental settings, and the processes taking place within and between them must be viewed as interdependent and analyzed as a system.
- 2. As human groups, families are part of the total life system, interdependent with other forms of life and the nonliving environment.
- Families are semi-open, goal directed, dynamic, adaptive systems. They can respond, change, develop, and act on and modify their environment.
 Adaptation is a continuing process in family ecosystems.
- 4. All parts of the environment are interrelated and influence each other. The natural physical-biological environment provides the essential resource base for all of life; it is influenced by the social-cultural and human-built environments and also influences these environments.
- 5. Families interact with multiple environments.
- 6. Families are energy transformation systems and need matter-energy for maintenance and survival, for interactions with other systems, and for adaptive, creative functioning. Information organizes, activates, and transforms matter-energy in the family ecosystem.

- 7. Interactions between families and environments are guided by two sets of rules: physical and biological laws of nature, such as the laws of thermodynamics, that are related to matter-energy interconversion and entropy; and human-derived rules, such as social norms, that are related to use and allocation of resources, role expectations, and distribution of power. Families can contribute to changing human-derived rules. An ecosystem perspective on the family requires that both sets of rules be taken into account.
- 8. Environments do not determine human behavior but pose limitations and constraints as well as possibilities and opportunities for families.
- 9. Families have varying degrees of control and freedom with respect to environmental interactions.
- 10. Decision making is the central control process in families that directs actions for attaining individual and family goals. Collectively, decisions and actions of families have an impact on society, culture, and the natural environment.

Assumptions of the Life Course Perspective Theory

The following assumptions from the life course perspective theory are from Bengston and Allen (1993).

- Change in behaviors relate to interactions and identities in ontogenetic time, generational time, and historical time.
- Social context influences social structure and the social creation of meanings in interpreting change over time.

- 3. Processes must be examined over time.
- 4. There is diversity in structure, aging, and response modalities in families.

Assumptions of this Study

- Adult children make decisions and choices to care for their elderly parent(s) based on a consideration of alternatives, costs, benefits, the caregiving circumstances, available resources, and potential deterrents.
- 2. Adult children prefer to provide care to their elderly parent(s) and avoid institutionalization.
- 3. Resources are available for intergenerational caregiving.

Rationale for the Present Study

A review of the literature revealed that there has been ongoing descriptive research regarding caregiver burden. While several studies describe the attributes of the caregiver, care recipient, and caregiving circumstances, this study will contribute by determining whether there is a relationship between caregiving circumstances, resources, deterrents, and outcomes. Although some recent studies have begun to reveal the positive outcomes of caregiving experiences, there are very few studies that include both positive and negative outcomes of caregiving. This study investigated predictors of positive and negative outcomes. Furthermore, there are few studies that address men or children in-law as caregivers. This study included these caregiver types and determined if there were differences among these groups. Additionally, this study determined if there was a difference in caregiving outcomes during the length of the caregiving experience.

Study Type and Limitations

Polit and Beck (2004) describe secondary analysis as involving the use of data gathered in a previous study to test new hypotheses or explore new relationships. In some studies, researchers collect far more data than are actually analyzed. Secondary analysis of existing data is efficient and economical because data collection is typically the most time-consuming and expensive part of a research project.

A number of opportunities are available for making use of an existing set of quantitative data. Variables and relationships among variables that were previously unanalyzed can be examined. The secondary analysis can focus on a particular subgroup rather than on the full original sample. The unit of analysis can be changed if the data have not been aggregated to yield information about larger units of analysis. A large data set provides greater reliability due to the sample size (Polit & Beck, 2004).

Several preparatory activities are necessary when performing secondary data analysis (Polit & Beck, 2004). After determining the research questions and identifying data needs, identification, location, and gaining access to appropriate data sources are necessary. A thorough assessment of the identified data sets in terms of their appropriateness for the research questions, adequacy of data quality, and technical usability of the data also is required. The policies regarding public use of the data set must be reviewed.

The National Long Term Care Survey (NLTCS) provides a wealth of data and multiple variables of interest to determine relationships that predict the

outcome of intergenerational caregiving experiences. Even though secondary data analysis is an efficient and economical method, the use of secondary data limits the variables available for analysis to those from the original research. Because this researcher did not play a role in developing the survey tool or in collecting the data, there is some deficiency in the data set. Particular areas of interest or variables that would have benefited this study include: ethnicity of the caregiver, the values and beliefs of the caregiver, other life stressors that the caregiver may be experiencing unrelated to the caregiving experience, the quality of the caregiver's marital relationship (if married), the effect of the caregiving circumstances on other immediate family members, and subjective reasons for and benefits of intergenerational caregiving. The NLTCS is a longitudinal study, but the caregiver component was administered twice thus far at a ten-year interval. Because a majority of caregiving experiences do not last ten years, a cross sectional set of caregiving variables was used in this study. A comparison could not be made of the same caregiver over time. However, there are many caregiver dyads in the study representing various lengths of time of caregiving. Despite the lack of some interesting variables that could contribute to the caregiving body of knowledge, the potential benefits of the study with a large national data set can provide insights not otherwise available.

CHAPTER 2

Review of the Literature

This chapter presents a review of studies that examine caregiving of elderly parents by adult children. The review of literature is organized by caregiver and care recipient characteristics and components of the conceptual model: caregiving circumstances, resources, deterrents, and outcomes.

Caregiver Characteristics

Family members provide eighty percent of all care to elders (Westbrook, 1989). Most elderly care is provided by the adult daughter or the care recipient's spouse (Brody, 1985; Brubaker, 1990; Checkovich & Stern, 2002; Cicerelli, 1993; Dyer & Coward, 1991 & 1992; Horowitz, 1985; Neal, Ingersoll-Dayton, and Starrels, 1997; Pohl, Boyd, & Given, 1997; Stone, Cafferata, & Sangl, 1987). When a son's parent requires care, the son's wife usually becomes the caregiver (Globerman, 1996). In general, adult caregivers do not prepare, plan, or anticipate events associated with caregiving (Archbold, Stewart, Greenlick, & Harvath, 1990; Archbold et al., 1995; Horowitz, 1985; Pohl, Given, Collins, & Given, 1994; Tennstedt, 1999). Adult children are more likely to provide help to parents if they are: women (Dwyer & Coward, 1992); divorced, widowed, or never married (Stoller, 1983); the oldest child (Hanson, Sauer, & Seelbach, 1983); live nearby (Finley, Roberts, & Banham, 1988); or are the only child (Coward & Dwyer, 1990). Daughters are more likely to provide personal care (Chang & White-Means, 1991; Dwyer & Coward, 1991; Horowitz, 1985). Sons

are more likely to provide assistance with home repair and finances (Stoller, 1990).

Checkovich and Stern (2002) studied shared caregiving responsibilities of adult siblings using the National Long Term Care Survey. They found that women provided more care than men, distant offspring provided less care, fulltime employment reduced care provided, and larger families meant less care was provided by any given sibling.

Much of the caregiving literature has focused on the caregiving daughter. While daughters typically provide a vast amount of care to elderly parents, children-in-law do provide a small proportion of care. Brody (1990) indicates that the daughter-in-law has less emotional involvement and less sense of responsibility as compared to daughters. The daughter-in-law has fewer feelings of reciprocity in caregiving. The role of the spouse (son) is central in this caregiving relationship. In a more recent study, Peters-Davis, Moss, and Pruchno (1999) found that the relationship with the elder was not significant in caregiving outcomes, but it was the quality of the relationship with the elder parent-in-law that consistently affected outcomes. The appraisal of the caregiving experience was found to be very similar for biological children and children-inlaw.

Adult caregivers are recognized as juggling many roles, including spouse, parent, and employee. This is especially true of daughters, who continue to carry much of the responsibility of traditional roles. Mui (1995) found a greater complexity in the responsibilities and number and types of roles of the daughters

as caregivers. Voydanoff and Donnelly (1999) studied the multiple roles of the caregiver and the relationship to psychological distress. The roles investigated included caregiver, employee, spouse, and parent. Caring for an elderly parent increased psychological distress. Role satisfaction in the roles of employee and spouse reduced psychological distress, but role strain associated with these roles increased distress. The parent role was unrelated to distress.

On the other hand, some studies show that additional roles do not cause significant increases in the distress or strain in middle-aged women (Dautzenberg et al., 1999; Spitze, Logan, Joseph, & Lee, 1994; Stoller & Pugliesi, 1989). The subjective evaluation of the caregiver role affects the distress of the caregiver more than the time spent in caregiving. Women with multiple roles appeared to have better or similar physical health, mental health, and mortality risk as compared to women performing fewer roles (Adelmann, 1994; Dautzenberg, et al.; 1999, Froberg, Gjerdingen, & Preston, 1986; Jones, Jaceldo, Lee, Zhang, & Meleis, 2001; Spitze et al., 1994; Waldron & Jacobs, 1989). This is similar to other studies that indicated the significance of the quality of roles rather than the occupancy of multiple roles (Barnett & Baruch, 1985; Parris Stephens & Townsend, 1997).

Employment of daughters is a factor in the type of care provided, but not the amount of care. Many are forced to reduce or leave employment to take on the caregiving role (Haley, 1997). Studies on caregiver role related to employment yield inconsistent findings. The conflict between a daughter's employment and the caregiving role potentially affects the caregivers' sense of

satisfaction with the caregiving role (Robinson, 1997). Spitze, et al. (1994) found that the caregiving role had no significant effect on distress and subjective family burden. Stoller and Pugliesi (1989) found that employed caregivers had increased subjective care burden only when employment was combined with many hours of caregiving. However, Stoller and Pugliesi also found that employed caregivers who provided many hours of assistance had higher levels of well-being. Stephens and Franks (1995) studied the relationship between daughters' roles as wife and caregiver. Negative experiences in either of these roles interfered with both roles. On the other hand, positive experiences in one role were found to enhance both roles. Also, positive experiences. Current societal trends that require a dual income emphasize career responsibility and meeting of personal needs are in conflict with traditional values of caregiving.

Much of the literature focuses on the primary caregiver and tends to obscure the involvement of or consequences to the entire family unit. Caregivers seek assistance to balance safety needs for the parent with caregiver needs for personal and marital fulfillment (Piercy & Blieszner, 1999). No significant association was found between the daughter as caregiver and distress and feelings of being over-burdened by family responsibilities (Spitz, Logan, Joseph, and Lee (1994). Martire, Stephens, and Franks (1997) found that caregiver role adequacy was positively related to family cohesion and marital satisfaction. Wife role adequacy had a positive effect on family cohesion, and mother role adequacy predicted less negative effect on family cohesion. Lieberman and

Fischer (1995) reported negative effects on both mental and physical health of the caregivers' spouse and offspring.

Other members of the caregivers' family also should be considered when there is simultaneous caregiving of children and parents. Lieberman and Fischer (1995) indicate that health effects on others in the caregiver's family are relatively unknown. Beach (1997) found a positive effect on adolescent relationships. The results include increased sibling activity and sharing between siblings, with the caregiving parent, and the care recipient grandparent. The adolescent gained greater empathy, compassion, and patience for the elderly. There was a significant increase in the bonding between the adolescent and the mother who was the most frequent caregiver. Lastly, it was found that peer relationship selection and maintenance was influenced by the caregiving experience. Peers were selected that were more empathetic, open, and objective. In another study, a positive effect of elder caregiving on adolescent relationships was identified (Farran, 1997). The positive result occurred in relationships or experiences such as increased sharing of activities with siblings, greater empathy for older adults, increased mother and adolescent bonding and a tendency to select empathetic peers for support.

The relationship of education to positive and negative perceptions of caregiving is unclear. Miller and Lawton (1997) provide some reasoning for a relationship between education and caregiving perceptions. More highly educated people may have higher expectations of their own and others' behavior in relation to caregiving. Additionally, higher education may likely result in a

greater investment of self in other roles and greater resentment of caregiving intruding on these roles. The pressures of daily life among the less educated may enable them to accept the demands of caregiving as one of many expected demands in their life.

Care Recipient Characteristics

The type and trajectory of the elder's illness also affects caregiver outcomes. Marchi-Jones, Murphy, and Rousseau (1996) reported that there was a statistically significant negative relationship between care recipient's cognitive function and caregiver strain. As the elder's cognitive function declined, the caregiver's level of strain increased. Additionally, witnessing the decline in health or cognition, suffering and death of a parent as care recipient was found to be among the most traumatic aspects of caregiving (Haley, 1997).

The care recipient's educational level may have a relationship with care provision. Checkovich and Stern (2002) found that a parent's higher level of education was related to less care by an adult child, apparently the result of greater financial resources and career responsibilities.

Caregiving Circumstances

Cicirelli (1983) examined the interpersonal relationship and the helping relationship between the parent and adult child caregiver. He found that the parent-child bond or attachment strongly influenced the commitment to care for an elderly parent. A sense of duty or obligation was a less frequent reason for providing care. Stronger attachment related to less subjective caregiver burden, whereas stronger obligation related to greater caregiver burden. Pohl, Boyd,

Liang, & Given (1995) also found the strength of the mother-daughter relationship related to the instrumental and affective commitment to the caregiving experience. Yet, caregiving also can improve relationships. As a result of assuming a caregiving role, about one third of caregivers reported an improvement in their relationships with their parent(s) (Ziemba, 2002).

Dellmann-Jenkins, Hofer, and Chekra (1992) conducted a five-year review of the caregiving literature. They found considerable demands and stresses associated with caregiving. The length of caregiving is expected to become more long-term, and demands of parent care were predicted to increase as the length of caregiving increased. For both daughters and sons, there was a strong association between the amount and type of caregiving tasks and time taken off from work, which in turn raised caregiver stress (Starrels et al., 1997). Yet, "the subjective evaluation of the caregiver role and not the number of hours of help affected distress of caregivers" (Dautzenberg, Diedricks, Philipsen, & Tan, 1999).

Caregiving Resources

External support from professionals can assist family caregivers and have a positive influence on the caregiver and the care recipient. Heinrich, Neufeld, and Harrison's (2003) qualitative study of caregiving women of elderly family members with dementia provided indications of influences and results of interaction with professional support. The perceived assistance with the caregiving role or direct assistance with the care recipient influenced the interaction with the professional. However, because of beliefs that women are responsible for caregiving and are the best caregivers, the caregivers were

vulnerable to a sense of failure when they sought external support. Heinrich, Neufeld and Harrison also found that women were hesitant to seek external support because of beliefs that external resources are scarce and that public resources should be available only to those who need them most. Mutuality of decision making related to caregiving is important for family caregivers when seeking external support and maintaining the relationship with the external support professionals, and there were negative outcomes in the relationships with external support when mutuality in decision making did not occur (Guberman & Maheu, 2002; Heinrich, Neufeld, & Harrison, 2003; Ward-Griffin & McKeever 2000; Walker & Jane Dewar, 2001). Results indicate that the emphasis should be on mutual interaction for caregiving decisions, facilitation of caregiving, and care recipient empowerment (Heinrich, Neufeld, & Harrison, 2003).

Furthermore, Greenberger (2003) reported that quality caregiving can coexist with burden, provided that ample caregiver resources are present. The most important resources were caregiver sense of competence and professional support. Social support has been shown to counteract stress and to strengthen caregivers' role performance (Braithwaite, 2000). Social support and self-esteem were found to moderate the effects of caregiving stress on distress (Stoller & Pugliesi, 1991).

In a review of the literature on family caregiving in later life, Brubaker (1990) found that families provided extraordinary care and that they were reluctant to use assistance outside of the family. Dwyer, Henretta, Coward, and

Barton (1992) reported that cooperation among siblings is an important factor in the initiation and continuation of care by offspring. Emotional support from siblings was found to mediate caregiver strain (Horowitz, 1985).

Spousal support is important in parental caregiving. Brody (1992) reported greater well-being for married caregivers as compared to unmarried counterparts. Franks and Stephens (1996) found that for caregiving wives, support from their husbands had a positive effect on marital satisfaction regardless of the amount of caregiving stress. Suitor and Pillemer (1994) studied intergenerational family caregiving and marital satisfaction during the first year of care. Changes in the marital satisfaction were related to the degree of emotional support from the husband of the caregiver. Emotional support was affected by the husbands' perception that caregiving interfered with the wives' ability to perform their own traditional family roles. The husbands' emotional support was more significant than instrumental support in the transition to caregiving. The husbands' instrumental support was not related to changes in their wives' marital satisfaction.

Subsequently, Suiter and Pillemer (1996) studied sources of support and interpersonal stress in married caregiving daughters over a two-year period. Sources of emotional support came primarily from friends, especially those who had previously cared for a family member, and sources of instrumental support and interpersonal stress came from siblings. High levels of emotional and social support are inversely related to distress and depression and are directly related to higher levels of satisfaction (Franks & Stephens, 1996).

Coping strategies are another resource to caregivers. Wilcox, O'Sullivan, and King (2001) compared caregiving wives and daughters and found that the three most commonly used coping strategies were the same for both groups. These coping strategies were counting their blessings, problem-focused coping, and seeking social supports. Atienza, Stephens, and Townsend (2002) examined the effect that dispositional optimism had on the stresses of caregiving and found that daughters with higher levels of optimism also attained higher scores of psychological well-being.

Another potential resource to caregivers is the provision of help from the elderly parent receiving care. Ingersoll-Dayton, Neal, and Hammer (2001) found that the receipt of help from the elderly care recipient was associated with costs and benefits. Receiving help was beneficial in terms of the quality of the relationship and self-appraisal of caregiving performance. Emotional support was consistently the most beneficial form of assistance. Tangible supports of financial, child care or household chore assistance were not consistently recognized as beneficial for daughters and sons. The caregivers experienced reduced work effectiveness in their own employment while being concerned about the parents' well-being and the support being provided. In addition to the quantitative measures, qualitative results of focus groups in the study described a range of caregiver feelings including dependence, sadness related to decreased helpful ability, frustration when assistance was inadequate, annovance with unsolicited help, and a desire to protect the parent's sense of usefulness by finding helpful behaviors for the parent to perform.

Caregiving Deterrents

Starrels, Ingersoll-Dayton, Dowler, and Neal (1997) found that the parent's cognitive and behavioral impairment was more strongly related to employed caregivers' stress than the parent's physical impairments. The parent's ability to assist in his or her own care reduced caregiver stress.

Brody (1989) found that 45-60% of caregivers received as much help as they felt they should from siblings. Caregiving responsibilities are no longer shared when conflict between siblings becomes too great (Matthews & Rosner, 1988).

Caregiving Outcomes

The degree of the positive or negative nature of caregiving may be determined by the subjective appraisal of the caregiver. "Caregiver appraisal refers to the process by which a caregiver estimates the amount or significance of caregiving" (Hunt, 2003, p. 30). Oberst, Gass, and Ward (1989) defined caregiver appraisal as the caregiver's assessment of both the nature of the stressor and his or her resources for coping with it. Caregiver appraisal consists of subjective cognitive and affective appraisals of the potential stressor and the efficacy of one's coping efforts (Lawton et al., 1989). Caregiver appraisal can be positive, negative, or neutral feelings about the caregiving experience. Caregiver appraisal has been proposed as a mediator of burden and outcomes. Pot, Deeg, & van Dyck (2000) found that caregiver appraisal was a direct indication of psychological distress regardless of such factors as coping and social support. The caregiver may discontinue care as a result of distress from negative

caregiver appraisal (Weitzner et al., 1999). On the other hand, positive caregiver appraisals have been proposed as mediators of outcomes. Feelings of preparedness, level of caregiver self-esteem, and how well one feels about the caregiving situation have been shown to be positively related to improved psychological outcomes in caregivers of elders and those with cancer (Archbold et al., 1990; Lawton et al., 1989; Given et al., 1992; Kurtz, Given, Kurtz, & Given, 1994; Kurtz, Kurtz, Given, & Given, 1995; Nijboer et al., 1999a, b). Examining the effect of caregiving using caregiving appraisals indicates which of the caregiving concepts are present in the role relationship. In a study of caregivers of advanced cancer patients in Australia, Aranda & Hayman-White (2001) found that caregivers' appraisals were a more important determinant of outcomes than were objective indicators such as the patient's symptoms or dependence. The caregiver's appraisal of the degree of satisfaction with the caregiving experience can differentiate as to whether intergenerational caregiving continues or extended care facility placement is sought (Kasper, 1990).

As the demands of caring for an elderly parent accelerate, women experience a negative effect on their personal health (Lee & Porteous, 2002). With greater longevity of caregiving, it is often physically and emotionally draining (Foley, Tung, & Mutran, 2002). The following specific functional consequences of caregiving have been identified: depression, disturbed sleep, social isolation, family conflict, career interruptions, financial difficulties, lack of time for self, decreased physical health, impaired immune function, physical and emotional

strain, and feelings of anger, guilt, grief, anxiety, hopelessness, helplessness, and chronic fatigue (Acton, 2002; Larrimore, 2003).

Most of the caregiving literature has focused on caregiving burden. Brody (1985) initiated much of this work by describing parent care as a normative, but a stressful family experience for the caregiver and family. Yet, more recent studies have conflicting results. Middle aged caregiving women did not have significant distress levels (Dautzenberg, Diederiks, Philipsen, & Tan, 1999; Spitze, et al., 1994). In these same studies, caregivers became more distressed when their own health deteriorated, they lost a spouse, and the quality of the relationship with the parent decreased. In Brubaker's literature review, several studies found that wives experienced greater subjective caregiver burden than husbands early in the caregiving experience. Stress on the marriage of caregiving daughters was evident in some studies. Mui (1995) studied emotional strain in adult sons and daughters, and the daughters experienced higher levels of emotional strain than sons.

Caregiving burden is viewed differently across studies. For most Caucasians, caregiving burden is equivalent to a negative meaning and outcome for the caregiver (Lim, et al., 1996). Lim, et al. discuss measurement of family caregiving burden. When the value of family exceeds the individual self, positive feelings can result. One may feel that she is carrying out her duty. Additionally, family values and bonds can serve a positive and protective function. Strong family bonds and social networks can support and buffer the caregiving experience. There also may be a greater distribution of caregiving responsibility

among family members. When family is valued, the responsibility of elder care is evident, and this sense of responsibility may decrease perceptions of burden.

The value of independence, rather than family interdependence, also will affect one's view of caregiving. Caucasians strongly value independence, causing the elderly Caucasian parent to recognize himself or herself as a burden to his or her family (Henderson & Gutierrez-Mayka, 1992).

Finding meaning in the caregiving experience seems to relate to the caregiving outcome. Farran, Keane-Hagerty, Salloway, Kupferer, and Wilkin (1991) conducted a qualitative study of caregivers of elders with dementia. Six themes were identified that led to finding meaning in caregiving as a positive psychological variable. The qualitative data were used to construct a quantitative scale, the Finding Meaning Through Caregiving Scale, to assess positive aspects of and ways of finding meaning through caregiving (Farran, Miller, Kaufman, Donner, & Fogg, 1999). Additionally, caregivers who are able to find higher levels of meaning had lower depression scores (Farran, Miller, Kaufman, & Davis, 1997). Avers (2000) conducted a gualitative study, which described the processes used by caregivers in creating meaning, and how meaning was related to the caregivers' more general ideas about themselves. The process of making meaning helped to make sense of the caregiving experience and to understand their affective responses. Making meaning through caregiving included expectations (predictions of events), explanations (reasoning to account for discrepancies among expectations and actual events), and strategies (actions taken to actualize expectations). Avers recommended that further studies are

needed to determine which methods of making meaning predict risk for negative outcomes in caregivers.

Improved family relationships are another potential benefit of caring for elderly parent(s). Farran, Keane-Hagerty, Salloway, Kupferer, and Wilken (1991) reported that 90% of caregivers valued positive aspects of the family and the social relationship, the care recipients' love for them, the positive relationship that they experienced with the care recipient, memories of and accomplishments with others, feeling appreciated by the care recipient and feeling good about the quality of care they were providing. Tennstedt (1999) describes an unrelenting positive influence on aspects of caregiver burden as related to the quality of the relationship between caregiver and care recipient. Acton (2002) explains that caregiving can be a source of strength and personal growth.

McLeod (1999) describes the need to internalize the caregiving experience in terms of life goals and the importance of family caring relationships to grow from the event. By caring for elderly parents, the adult child is considered to gain maturity and wisdom for his or her own later life, becoming better prepared for his or her own later years. Reciprocity for care provided earlier in life also may be a life goal in the caregiving circumstances. Caregiving of elderly parents may provide added value after the parent's death in fulfilling a commitment or sense of duty. Underlying benefits for the caregiver may be rewarding memories or avoidance of guilt after the death of the parent.

Caregiver gain is "the extent to which the caregiving role is appraised to enhance an individual's life space and be enriching" (Kramer, 1997a, p. 219).

Caregiver gain may include anything positive resulting from the caregiving experience. Based on a literature review, Kramer (1997a) proposed that a model of caregiver adaptation in which appraisal of the gain from the caregiver role is an intervening process through which other variables act to influence caregiver well-being. A relationship also was found between caregiver coping and social support and caregiver gain. Yet, the nature of the relationships needs further study. Rapp & Chao (2000) found that caregiver gain moderated the relationship between stress and negative affect, and the effects of caregiver gain were independent of negative appraisal of caregiver strain. Caregiver gain has been recognized as event specific and role specific. Event specific gain includes those responses to specific caregiving tasks, while role specific gain relates to the assessment of the caregiving role. Caregiving strain and gain are often treated as opposites on a continuum when they may actually be related outcomes or independent of each other (Kramer, 1997b).

"Caregiver esteem is the extent to which performing caregiving enhances the caregiver's self-esteem" (Hunt, 2003, p. 29). As a direct result of caregiving, the caregiver feels a sense of confidence or satisfaction. In two separate studies, caregiver esteem was inversely related to depression (Given et al., 1992; Nijboer et al., 1999a; 1999b). Nijboer, et al. (2000) reported that caregiver esteem decreased over time while in the caregiving role and that female caregivers were more likely than were male caregivers to report decreased caregiver esteem over time.

A benefit for the elderly is the potential for a more positive well-being (Riedel, Fredman, & Langenberg, 1998). In a national survey (National Alliance for Caregiving & American Association of Retired Persons, 1997), 57% of family caregivers described their experiences positively, using terms such as "rewarding" or "enjoyable," and they identified benefits including: pride in doing a good deed, improving the quality of life, making the elder parent happy, and earning the parent's gratitude. Based on 1982 data of the National Long Term Care Survey (NLTCS), caregivers reported heightened self-esteem as a result of providing care (Select Committee on Aging, 1987). Caregiving can provide caregivers with opportunities to feel proud and competent (Hasselkus, 1988). Motenko (1989) reported that dementia caregivers could experience gratifications associated with reciprocity and giving tender, loving care.

Cohen, Gold, Shulman, and Zucchero (1994) identified enjoyable aspects in caregiving as listed by the caregiver. The positive aspects included those related to the relationship itself and the desire to see positive outcomes for the care recipient. Additional factors that related to enjoyment were caregiving because of love and a sense of duty. Caregiving mastery and satisfaction with the caregiving activity were identified less frequently.

Caregiver satisfaction is one of the most common terms used to address the positive aspects of caregiving (Kramer, 1997a). Caregiver satisfaction has been defined as "the benefits accruing to the caregiver through his or her own efforts" (Lawton, Kleban, Moss, Rovine, & Glicksman, 1989, p. P64). Later, Lawton, Moss, Kleban, Glicksman, and Rovine (1991) defined caregiver

satisfaction as "subjectively perceived gains from desirable aspects of or positive affective returns from caregiving" (p. P182). An additional definition is that caregiver satisfaction is "the result of caregiving experiences that give life a positive flavor" (Lawton, Rajagopal, Brody, & Kleban, 1992, p. S157). Even though definitions differ, caregiver satisfaction is related to positive affect, to burden, and to stress, and it may have differential effects in predicting negative and positive affective consequences in caregivers (Lawton et al., 1989; Lawton et al., 1991).

The caregiving role and tasks are perceived differently by various caregivers. The demand to provide care is not a stressor itself, and not all caregivers perceive the role as stressful or burdensome (Lawton et al., 1989). Distress levels are lower among those caregivers who view themselves as effective caregivers and their tasks as satisfying. Low caregiver depression has been associated with optimism and coping responses characterized by solving problems, seeking information and directly confronting caregiving problems (Hinrichsen & Niederehe, 1994). In a longitudinal study, Dautzenberg, Diederiks, Philipsen, and Tan (1999) examined whether the role of caregiver of an elderly parent affects levels of distress of middle-aged women and whether multiple roles or specific role combinations of caregivers affect distress and caregiver role strain. For middle-aged women, the parental caregiving was not found to have an effect on distress. Female caregivers had a slightly increased distress level, but not significant, when compared to women not providing care. Withdrawal from the caregiver role was associated with a small, but nonsignificant, decrease

in level of distress. Additionally, it was found that middle-aged women were more affected by a deterioration of their own health or the loss of a spouse than by the caregiving role responsibility for their elderly parent. Longitudinally, the caregivers only became more distressed when the caregiving demands became so extensive that they interfered with personal life of the caregiver.

Uplifts and hassles of caregiving have been examined. Kinney and Stephens (1989) defined uplifts as caregiving events that make one feel good, make one joyful, or make one glad or satisfied or "uplifts are daily events that evoke feelings of joy, gladness, or satisfaction" (Kinney, Stephens, Franks, & Norris, 1995). Caregivers' appraisal of daily caregiving tasks is determined to be uplifts or hassles. Uplifts have been hypothesized to buffer the effects of hassles (Kinney & Stephens, 1989). Less caregiving distress was reported when uplifts offset hassles (Kinney et al., 1995).

Perry (2004) conducted a qualitative study of daughters who cared for mothers with dementia and concluded that finding meaning in the caregiving experience rests on the ability to master requisite complexities. These complexities include recalling the memories of the mother and family experience, relearning how to associate with the mother, and readjusting to the caregiving experience accounting for the daughter's feelings and thoughts. This mastery in the caregiving experience has positive connotations.

Summary

In reviewing the literature, it appears that descriptive research clearly provides demographics of the caregiver characteristics. There is some evidence

describing characteristics of the care recipient and the caregiving circumstances and the resources and deterrents of caregiving. Caregiving is a multidimensional construct and has multiple variables that affect its outcome.

Most caregiving research has centered on the negative and detrimental aspects of the caregiving process and experience. However, caregiving is not always a negative experience or considered a burden. "Lack of attention to the positive dimensions of caregiving seriously skews perceptions of the caregiving experience and limits the ability to enhance theory of caregiver adaptation" (Kramer, 1997a, p. 218). In addition to the negative concepts related to caregiving, there has been some emergence of studies in the last decade that have shown the presence and influence of positive aspects of caregiving. Moreover, studies indicate positive experiences and that caregivers do not report negative consequences, burden, or role strain (Cartwright, Archbold, Stewart, & Limandri, 1994; Langner, 1995; Miller & Lawton, 1997; Tennstedt, 1999). Suwa (2002) emphasizes the need to assess the caregiving experience in the context of the caregivers' whole life and to identify burdensome as well as beneficial aspects.

CHAPTER 3

Methodology

This chapter includes an overview of the National Long Term Care Survey (NLTCS) research study and sample, the research objectives, research questions and hypotheses, variables of this study, and research design. An explanation of the data analysis concludes the chapter.

NLTCS Research Study

The NLTCS is a longitudinal survey designed to study changes in the health and functional status of Americans aged 65 and beyond. The NLTCS contains a public dataset from Duke University's Center for Demographic Studies. NLTCS is funded through the National Institute on Aging and Duke University's Center for Demographic Studies. The survey began in 1982, and follow-up surveys were conducted in 1984, 1989, 1994, 1999, and 2004. The surveys are administered by the United States Census Bureau using trained interviewers, and the response rate is above 95% for all waves of the study. The survey population consists of a sample of 35,000 people randomly selected from national Medicare enrollment files in 1982. The sample has been augmented by adding 5,000 people who have passed age 65 in successive surveys. Thus, there is a large nationally representative sample at each point in time. There are supplemental surveys, including the National Informal Caregivers Survey (NICS), which acquires data on informal caregivers. The supplemental surveys are done under subcontract with United States Department of Health and Human Services Assistant Secretary for Planning and Evaluation (ASPE) and the Research

Triangle Institute. The caregiver survey was done in 1989, 1999, and 2004. The 2004 data set was not publicly available at the time of this study.

There are several research projects using the NLTCS data set (Duke University's Center for Demographic Studies, 2005). Researchers generally have examined the health and behavioral factors associated with changes in chronic disability and mortality. The projects generally fall in the following categories: disability trends in the United States elderly population, severe cognitive impairment, changes in Medicare and Social Security expenditures, age- and relationship-specific effects of nutrition and functioning of United States elderly persons and the oldest-old, and methodology for investigation of the evolution of disability and mortality processes. Also, the NLTCS data are used widely by policy analysts and have been cited frequently in the debate over the extent of a revenue shortfall in the Medicare Trust Fund and when the fund might become insolvent. While there has been some research related to the caregiver survey of 1989, the 1999 informal caregiver survey has received very little attention. Considering this, there is a wealth of data to be studied regarding intergenerational caregiving needs.

Sample

The 1999 National Informal Caregivers Survey (NICS), or more informally labeled as the caregiver survey, was used for this study (see Appendix A). The sample includes caregivers of Medicare recipients 65 and older. In 1999, there were 1,600 primary caregivers, and 1,283 caregivers completed the interview instrument. Field staff from the U. S. Bureau of the Census conducted the 1999

Long-Term Care Survey by personal interview during the period August 1999 through November 1999.

The process of caregiver sample selection occurred by first identifying Medicare recipients who were noninstitutionalized and had an impairment or health problem lasting three months or longer requiring care. The responses to the activities of daily living (ADL) and instrumental activities of daily living (IADL) sections of the NLTCS determined the care recipients' level of disability and how they used help to function. Caregivers met two criteria: 1) they were either a relative who was paid or unpaid for providing care or a non-relative who was not paid for providing care, and 2) they provided ADL and/or IADL hours of care. The primary caregiver was the person who provided the most ADL and IADL hours of care. Primary caregiver interviews were conducted in person or by telephone. If the primary caregiver was present during the care recipient's interview for the NLTCS, her or his interview was conducted in person following the community care recipient interview. If the caregiver was not present or the caregiver interview could not be conducted following the care recipient's interview, the caregiver interview was done by telephone at a later date.

Research Design

The design of this study was descriptive, non-experimental and the associations among variables were analyzed with data collected in 1999. A correlational design was used to achieve the objectives. The study involved major categories of independent variables. The first set of independent variables included the intergenerational caregiving circumstances. The intergenerational

caregiving circumstances variables were: caregiver age, the longevity of caregiving, relationship to care recipient, amount of time spent in care giving per week, amount of care provided, and co-residency or geographic distance of caregiver from the care recipient. The second category of independent variables included caregiver resources, which consist of external support, family or friend support, coping behaviors, and helpful behaviors of the care recipient. There was another set of independent variables related to deterrents of caregiving, including care recipient's difficult behaviors, family conflict, and caregiver issues. The caregiver outcomes were examined using six dependent variables: selfesteem, appreciation of life, energy expenditure, stress level, physical strain, and financial hardship. The caregiving resources and deterrents also were considered as variables that mediate the relationship between the intergenerational caregiving circumstances and the caregiving outcome indicators. (See Figure 2)

The unit of analysis in the present study was the caregiver. This study assessed the extent to which the data available are consistent with the model presented in Figure 2. The data were from the National Long Term Care Survey (NLTCS), which is a longitudinal survey from Duke University's Center for Demographic Studies. To utilize the NLTCS, a data use agreement was signed and notarized. Permission for this study was obtained from the Michigan State University Committee on Research Involving Human Subjects (UCRIHS). (See Appendix B.)

Research Objectives

The overall purpose of the study was to determine the predictors of intergenerational caregiver experience. The specific objectives are as follows:

- Determine which intergenerational caregiving circumstances predict the caregiver outcomes;
- Determine which intergenerational caregiving resources predict the caregiver outcomes;
- 3. Determine which intergenerational caregiving deterrents predict the caregiver outcomes;
- 4. Determine whether resources mediate the relationship between intergenerational caregiving circumstances and the caregiver outcomes;
- 5. Determine whether deterrents mediate the relationship between intergenerational caregiving circumstances and the caregiver outcomes;
- 6. Determine whether there is a difference in intergenerational caregiver outcomes when the caregivers are sons, daughters, sons-in-law, or daughters-in-law.
- 7. Determine whether there is a difference in intergenerational caregiver outcomes when comparing age of the caregiver.
- 8. Determine whether there is a difference in intergenerational caregiver outcomes when comparing the length of time of the caregiving experience.

Research Questions and Hypotheses

Based on the research objectives, the following research questions and hypotheses were tested. All research questions and hypotheses refer to the

daughter, son, daughter-in-law, or son-in-law who had primary unpaid caregiving responsibility for elderly parent(s). While bivariate analysis is done to determine a relationship between two variables before progressing to a multivariate analysis, Polit and Beck (2004) suggest that multivariate hypotheses can be written when there is a prediction of a relationship between two or more independent variables and/or two or more dependent variables. Because of the multiple variables, multivariate hypotheses are provided. When the literature review does not provide adequate support for a hypothesis, the research question remains without a hypothesis or there are only hypotheses provided that relate to the literature, but not hypotheses for all variables within that category of variables.

 What is the relationship between the intergenerational caregiving circumstances variables and each caregiver outcome variable?
 Ho 1: Intergenerational caregiving circumstances are unrelated to caregiving outcomes.

Ha 1: Caregivers who care for their elderly parent(s) more hours per week will perceive increased energy expenditure and an increased stress level.

2. What is the relationship between intergenerational caregiving resources and each caregiver outcome variable?

Ho 2: External support, family or friend support, caregiving coping behaviors, and helpful behaviors of the care recipient are unrelated to the caregiver outcomes.

Ha 2: Caregivers who receive family or friend support will appraise the caregiver outcome with a decreased stress level.

- 3. What is the relationship between intergenerational caregiving deterrents and each caregiver outcome variable?
 Ho 3: Care recipient's difficult behaviors, family conflicts, caregiver issues, and cost are unrelated to the caregiver outcomes.
 Ha 3: Caregivers who experience family conflicts will appraise the caregiver outcome with an increased stress level.
- 4. Do caregiving resources mediate the effects of intergenerational caregiving circumstances on the caregiver outcome variables?
- 5. Do caregiving deterrents mediate the effects of intergenerational caregiving circumstances on the caregiver outcome variables?
 Ho 5: Caregiving deterrents do not mediate the effect of the caregiving circumstances on the intergenerational caregiver outcome variables.
 Ha 5: Family conflict mediates the effect of the caregiving circumstances on the intergenerational caregiver outcome variables.
- 6. Are there significant differences in the intergenerational caregiver outcome variables among daughters, sons, daughters-in-law, and sons-in-law?
 Ho 6: There are no differences in the intergenerational caregiver outcome variables among daughters, sons, daughter-in-laws, and son-in-laws.
 Ha 6: Daughters and daughters-in-law will appraise the caregiving outcome with an increased stress level and greater physical strain.

- 7. Are there significant differences in the intergenerational caregiver outcomes variables according to the age of the caregiver?
- Are there significant differences in the intergenerational caregiver outcome variables as the length of the caregiving experience increases?
 Ho 1: The length of the caregiving experience is unrelated to caregiving outcomes.

Ha 1: Caregivers who care for their elderly parent(s) more years will perceive increased energy expenditure and an increased stress level.

Research Variables

This section contains the conceptual and operational definitions of the dependent and independent variables.

Dependent Variables

Self-esteem (caregiver's as a result of caregiving)

Conceptual definition: The degree of worth the caregiver attributes to her or himself.

Operational definition: The caregiver indicated whether providing help to the care recipient has made him or her feel good about her or himself (Likert scale; 1 = disagree a lot, 2 = disagree a little, 3 = neither agree or disagree, 4 = agree a little, 5 = agree a lot).

Appreciation of life (caregiver's as a result of caregiving)

Conceptual definition: The caregiver's value, significance, or worth of life. Operational definition: The caregiver indicated whether providing help to the care recipient has enabled him or her to appreciate life more (Likert scale; 1 = disagree a lot, 2 = disagree a little, 3 = neither agree nor disagree, 4 = agree a little, 5 = agree a lot).

Energy expenditure (caregiver)

Conceptual definition: The degree of energy expenditure and time to complete what is expected in caregiving for the care recipient.

Operational definition: The caregiver described how much energy expenditure or time it took to do what was needed in caregiving. The categories included: exhausted when going to bed at night; having more things to do than can be handled; not having time just for herself or himself; and working hard as a caregiver, but never seem to make progress. The possible responses were: 1 = completely; 2 = quite a lot; 3 = somewhat; 4 = not at all. Energy expenditure was measured by four items and the mean score of the four items on a four-point scale indicates the energy expenditure score. The values were reverse coded to achieve low scores indicating lower amounts of energy expenditure and high scores indicating higher amount of energy expenditure.

Stress level (caregiver)

Conceptual definition: The degree of response from a relationship between persons or a person and the environment that is appraised by the person as taxing or exceeding his or her resources and endangering his or her well-being (Lazarus & Folkman, 1984).

Operational definition: The caregiver indicated the degree of perceived stress caused by doing all of the things to help the care recipient (10 point scale where 1 is not much stress at all and 10 is a great deal of stress).

Physical strain (caregiver)

Conceptual definition: The degree of the caregiver's physical strain.

Operational definition: The caregiver indicated the degree of physical strain

created by caring for the care recipient (5 point scale where 1 = not a strain at all

to 5 = very much of a strain).

Financial hardship (caregiver)

Conceptual definition: The degree of financial hardship for the caregiver.

Operational definition: The caregiver indicated the degree of financial hardship

created by caring for the care recipient (5 point scale where 1 = no hardship at all

to 5 =great deal of hardship).

Independent Variables

Caregiving Circumstances Variables:

Age (caregiver)

Conceptual definition: The number of years the caregiver had been alive.

Operational definition: The caregiver stated his or her age in years.

Caregiving longevity

Conceptual definition: The length of time that the caregiver has cared for the care recipient.

Operational definition: The caregiver indicated when she or he started taking care of the care recipient. Response choices included: 1 = less than 3 months; 2 = 3 months – less than 6 months; 3 = 6 months – less than 1 year; 4 = 1 year – less than 2 years; 5 = 2 years – less than 4 years; 6 = 4 years – less than 7 years; 7 = 7 years – less than 10 years; 8 = 10 years or more. Using the mean of the response choices, the items will be recoded to be 1 = 0.2 years; 2 = 0.3 years; 3 = 0.8 years; 4 = 1.5 years; 5 = 3 years; 6 = 5.5 years; 7 = 8.5 years; 8 = 10 years.

Relationship (caregiver's relationship to the care recipient) Conceptual definition: Whether the caregiver was a son or daughter. Operational definition: The caregiver indicated the relationship.

Caregiving time

Conceptual definition: The number of hours per week that the caregiver provides care for the care recipient.

Operational definition: The caregiver indicated the number of hours that care was provided for the caregiver in a typical week. The total number of hours per week was the caregiving time.

Care Provided

Conceptual definition: The amount of help with physical activities of daily living (ADL), instrumental activities of daily living (IADL), and health care activities that the caregiver provided for her or his elderly parent.

Operational definition: The caregiver indicated the frequency of involvement with ADL, IADL, and health care activities. There was a total score for ADL, IADL, and health care activities. The ADL categories included mobility (assistance with walking or getting around with a wheelchair or similar device inside), eating, getting in or out of bed, getting dressed, bathing, and toileting. Caregiver involvement with IADL included categories of food preparation, financial management, making telephone calls for the care recipient, doing things around

the house (such as straightening up, putting things away, or doing the dishes), laundry, grocery shopping, other small errands outside of the house, mobility outside of the house, and transportation. For health care activities, the caregiver indicated whether she or he provided any of the following health care activities: gave shots or injections, gave medicine, pills, or changed bandages, and assisted with a catheter or colostomy bag. The caregiver indicated yes or no to each item. If yes, the caregiver indicated the frequency that help was provided, stating the number of times per day that help was given in each category. The sum of the individual items' frequency in times per day represented the care provided. High scores indicated more care provided than low scores.

Proximity

Conceptual definition: The proximity of residence of the caregiver to the care recipient.

Operational definition: The caregiver responded as to whether she or he lived with the care recipient or if not living together, the length of time to travel to care recipient's residence. The living proximity was coded as: 0 = caregiver lives with care recipient and all additional coding was in minutes traveling distance from the care recipient's residence to the caregiver's residence.

Resources Variables

External support

Conceptual definition: Whether the caregiver used external support services to assist in the provision of care for the elderly parent.

Operational definition: The caregiver indicated yes or no as to whether any of the following services were used: requested information regarding how to get financial help for care recipient; participation in a support group for caregivers; respite care; adult daycare or senior center service; assistance with personal care or nursing care; housework; meal delivery to home; transportation service; care recipient's home modification(s); and obtained assistive devices. The frequency of yes responses provided a total score for external support. The external support score could range from zero to ten. High scores indicated greater external support services utilized to assist in the provision of care and low scores indicated a lesser amount of assistance from external support.

Family or friend support

Conceptual definition: The degree to which family or friends provide support to the caregiver.

Operational definition: The mean score of family or friend's support. A scale of family or friend's support was created using responses on a Likert scale to questions regarding whether: family or friends understand what caregiver is going through; caregiver feels that family or friends care about her or him; confidence in family or friend's opinion regarding care; caregiver has someone whom she or he can trust; caregiver has family or friend that elevates spirits; caregiver has family or friend that makes her or him feel good about herself or himself; caregiver has family or friend to confide in; and caregiver has family or friend to be with when down or discouraged. The mean score of the eight items with a four-point scale indicated the family or friend's support. High scores

indicated a strong support from family or friends and low scores indicated minimal support from family or friends.

Coping behaviors (caregiver)

Conceptual definition: The thoughts and actions relevant to defining, attacking, and meeting the task (Lazurus & Folkman, 1984)

Operational definition: The caregivers indicated the frequency in which they did the following activities when under stress from caregiving: spend time alone; prayer/meditation; talk with friends or relatives; spend time on exercise or hobbies; watch TV; read; and get help from a counselor or other professional. The mean score of the eight items frequency of use on a four-point scale indicated the coping behaviors score. High scores indicated frequent use of coping behaviors and low scores indicated minimal use of coping behaviors while under stress from caregiving.

Care Recipient Helpful Behaviors

Conceptual definition: Care recipient behaviors that provide help to the caregiver. Operational definition: The caregiver indicated the behaviors in which the care recipient has been helpful to the caregiver. The behaviors included: helping with household chores; helping with babysitting; buying things for caregiver or giving caregiver money; keeping the caregiver company; and making caregiver feel useful and needed. Response choices for each behavior were yes or no. The total score was the amount of helpful behaviors from the care recipient. The score could range from one to ten. High scores included a greater number of helpful behaviors, and low scores indicated a lower number of helpful behaviors.

Deterrents Variables

Care Recipient Difficult Behaviors

Conceptual definition: The amount and type of difficult care recipient behaviors encountered by the caregiver.

Operational definition: The caregiver indicated the frequency of particular care recipient behaviors that were encountered in the previous week. The behavior categories included: keeping caregiver up at night; repeated questions/stories; tried to dress the wrong way; had a bowel or bladder accident; hid belongings and forgot about them; cried easily; acted depressed or down hearted; clung to caregiver or followed caregiver around; became restless or agitated; became irritable or angry; swore or used foul language; became suspicious, or believed someone was going to harm the care recipient; threatened people; showed sexual behavior or interest at the wrong time/place; and destroyed or damaged property. Responses were 1 = no days; 2 = 1-2 days; 3 = 3-4 days; 4 = 5 or more days. The sum of the score indicated the frequency of care recipient behaviors. The care recipient difficult behaviors score could range from 15 to 60. High scores indicated more difficult care recipient behaviors.

Family conflict

Conceptual definition: The extent of disagreement between the caregiver and other family members regarding the care recipient and the caregiver. Operational definition: Considering all of the caregiver's relatives, the caregiver indicated how much disagreement had occurred with any family member regarding issues related to the care recipient and caregiver. The caregiver

indicated the amount of disagreement regarding spending enough time with the care recipient; doing share of care for care recipient; showing enough respect for the care recipient; lacking patience with the care recipient; not visiting or telephoning the caregiver enough; not giving caregiver enough help; not showing enough appreciation of the caregiver's work as a caregiver; giving caregiver unwanted advice. For each area of disagreement, a response was given. Response choices included: 1 = no disagreement; 2= just a little disagreement; 3 = some disagreement; 4 = quite a bit of disagreement. The results were summed to create a score for family conflict. The family conflict score could range from eight to 32. A high degree of family conflict was indicated by high scores and a low amount of family conflict was indicated by low scores.

Caregiving issues

Conceptual definition: The number of issues that affected the caregiver as a result of caregiving.

Operational definition: The caregiver indicated whether any of the following were issues related to caregiving: sleep disturbance; caregiving despite not feeling well enough herself or himself; faced with providing specialized health care that was unable or unprepared to give; caregiving limited personal privacy; caregiving limited social life or free time; care recipient required constant attention; caregiver's health declined as a result of caregiving; less time for other family members; and need to give up vacations, hobbies or personal activities. The caregiver issues were summed for a total caregiver issues score. The caregiving

issues score could range from 9 to 18. High scores indicated a high number of caregiving issues, and low scores indicated a low number of caregiving issues.

Reliability Analyses of Variables

Because there were multiple items in some variable measures created by the researcher, it was necessary to validate the reliability with the adult children caregivers used in this study. The reliability was computed using Cronbach's alpha. Polit and Beck (2004) indicate that there is no standard for what a reliability coefficient should be. Yet, if making group level comparison, then coefficients of approximately 0.70 or even 0.60 are probably sufficient. When considering the reliability of variables, criteria were used to determine whether to retain or delete items for the measure. If the alpha was greater than 0.70 and there were not specific items that had low corrected item-total correlation, all items were kept in the measure. If the alpha was less than 0.7, the investigator examined the change in alpha if specific items were deleted from the scale. If an item lowered the alpha, it was deleted from the variable measure. Table 1 shows the alpha coefficients for the various measures created from multiple items. Considering this criteria, no items were deleted from the variable measures. The variable scales had an acceptable level of internal consistency.

Measure	Cronbach's Alpha
Family / friend Support	0.91
Coping Behaviors	0.72
Energy expenditure	0.86

 Table 1. Reliability Measures of Variables Using Cronbach's Alpha

There were other measures that had multiple items. The variable was computed by summing the occurrence of the multiple items within the measure. Therefore, reliability measures were not obtained for these items.

Data Analysis

Data analyses were done using the Statistical Package for the Social Sciences (SPSS) version 13.0. The data analyses involved five major components: descriptive statistics, correlations, multiple regression, path analysis, and comparison of means through t-tests and ANOVAs.

Descriptive statistics were computed first. The caregiver sample in this study was described. The adult sons and daughters, sons-in-law, and daughters-in-law who were not paid for providing care were selected for this study. There was an insufficient sample size of unpaid caregiving sons-in-law (n=6) and daughters-in-law (n=39) to be included in this study. Descriptive statistics were used to describe the following adult caregiver characteristics: age, relationship to care recipient, marital status, employment status, health, and family income. Descriptive statistics were used to determine the distributional pattern and characteristics of each of the independent and dependent variables. Frequency tables and descriptive statistics including means and standard deviations were used to inspect the data. This process determined if assumptions were being met for various statistical procedures. It also determined how scores clustered for some variables. Transformation of some

variables occurred based on this information. Reliability analyses were completed for multiple item measures.

Correlations among variables were computed. Correlations were calculated to determine the extent of associations among the predictor variables; associations between the circumstances variables and resources; associations between the circumstances variables and deterrents; associations between the circumstances variables and the caregiver outcome variables; and associations among the dependent variables.

Multiple regression analyses were performed to examine the combined effects of predictor circumstance variables on the resource variables and the effects of predictor circumstance variables on the deterrent variables, and to identify which of the variables are related to the resources and to the deterrents when other variables are controlled. Further multiple regression analyses were performed to examine the effects on the caregiver outcomes. A chance probability level of less than 0.05 was set to reject the null hypotheses.

The multiple regression analyses provided initial analyses and facilitated elimination of the nonsignificant variables for the path analysis. Path analysis was computed to determine which of the predictor variables had a direct or indirect effect on the caregiver outcomes. The path analysis explained whether there was a direct relationship of circumstances, resources and deterrents to the caregiver outcomes and whether the resources and deterrents mediate the relationship between caregiving circumstances and caregiver outcomes.

Additionally, a comparison of groups on the dependent caregiving outcomes was made. The comparison of son and daughter on the caregiving outcomes was made using t-tests. One-way ANOVAs also were computed to test the significance of mean group differences for the caregiving outcomes related to caregiver age and caregiving longevity.

Specific data analysis procedures for each research question follow. Descriptive statistics are provided for each research question to provide comprehensive information needed to understand the statistical analysis. *Research question 1*: What is the relationship between the intergenerational caregiving circumstances variables to each caregiver outcome variable? To determine the relationship between the predictor caregiving circumstances variables and the dependent variables of caregiver outcomes, correlations were computed. Each intergenerational caregiving circumstances variable (age, longevity, amount of time spent caregiving per week, care provided, and living proximity) were computed separately with the caregiving outcome variables (selfesteem, appreciation of life, stress level, energy expenditure, physical strain, and financial hardship).

Research question 2: What is the relationship between intergenerational caregiving resources and the caregiver outcome variables? To determine the relationship between the predictor caregiving resources variables and the dependent variables of caregiving outcomes, correlations were computed. Each intergenerational caregiving resource variable (external support, family assistance, coping behaviors, care recipient helpful behaviors)

was correlated separately with the intergenerational caregiver outcome variables (self-esteem, appreciation of life, energy expenditure, stress level, physical strain, and financial hardship).

Research question 3: What is the relationship between intergenerational caregiving deterrents and the caregiver outcome variables?

To determine the relationship between the predictor intergenerational caregiving deterrent variables and the dependent variables of caregiving outcomes, correlations were computed. Each caregiving deterrent variable (care recipient difficult behaviors, family conflict, and caregiving issues) was correlated separately with the caregiver outcome variables (self-esteem, appreciation of life, energy expenditure, stress level, physical strain, and financial hardship). *Research question 4 & 5*: Do caregiving resources mediate the effects of intergenerational caregiving circumstances on the caregiver outcome variables? Do caregiving deterrents mediate the effects of intergenerational caregiving circumstances on the caregiver outcome variables?

Several stepwise multiple regression analyses were done to determine which of the predictor variables were related to the caregiving outcome variables. Path analysis determined whether there was a direct effect on the outcome variables or whether there was an indirect effect via caregiving resources or caregiving deterrents.

Research question 6: Is there a significant difference in the caregiver outcome variables among daughters, sons, daughters-in-law, and sons-in-law?

Because of an insufficient sample of children-in-law, a comparison of sons and daughters was computed. T-tests were run to examine the differences between sons and daughters on each of the caregiving outcome variables (self-esteem, appreciation of life, energy expenditure, stress level, physical strain, and financial hardship).

Research question 7: Is there significant differences in the intergenerational caregiver outcome variables among caregivers of different ages? A series of one-way ANOVA analyses were run to examine the differences among different age groups on each of the caregiving outcome variables (self-esteem, appreciation of life, energy expenditure, stress level, physical strain, and financial hardship).

Research question 8: Is there a significant difference in the intergenerational caregiver outcome variables as the caregiving experience lengthens in time? A series of one-way ANOVA analyses were computed to examine the differences of longevity of care provision on each of the caregiving outcome variables (self-esteem, appreciation of life, energy expenditure, stress level, physical strain, and financial hardship).

Data analysis procedures for each research question are summarized in Table 2.

Research Questions (Q)	Data Analysis Method
Q 1-8	Descriptive statistics
Q 1-3	Pearson r Correlation
Q 4-5	Stepwise Multiple regression
Q 4-5	Path analysis
Q 6	T-test
Q 7-8	One-way ANOVA

Table 2. Data Analysis Methods for Each Research Question

CHAPTER FOUR

Results of Data Analysis

In this chapter, the results of the data analysis are reported. First, characteristics of the sample and the descriptive data are reported. Next, the results of the analyses are reported: bivariate correlations, multiple regression, path analysis, and comparison of groups. Finally, a summary of results is presented.

Descriptive Statistics

Initially descriptive statistics of the care recipients and caregivers were examined. There were some missing items in some cases. Missing responses may have been because respondents did not find some questions relevant to their experience or chose not to answer.

Of the care recipients, there were 82% females and 18% males, ranging in age from 65 to 110 with a mean age of 84. Most of the care recipients were married (58%), and the marital status of the others were widowed (32%), divorced (6%), never married (3%), and separated (1%). A majority of the elderly parents lived in a house or duplex (81%), while others lived in an apartment (12%), mobile home (5%), boarding house (1%), or other (2%). Some of the elderly parents (60%) changed living arrangements at some point during the care experience, and of those who made a change, 50% moved to the caregiver's home, 35% of caregivers (and in some cases their families) moved into the care recipient's home, and 15% moved to a different home. In addition to being Medicare recipients, 24%) reported receiving Medicaid. Social Security

benefits ranged from \$49 to \$2,270 per month, with a mean of \$664 and additional retirement income of \$0 to \$5,000 per month with a mean of \$503. The total income per year of the care recipient and spouse, if present, ranged from less than \$3,000 to greater than \$100,000, with a mean of \$16,000. Data regarding race were missing for the care recipients or could not be matched between care recipient and caregiver across data sets. The race of elderly in the entire NLTCS data set for 1999 included: Caucasian (86%), African-American (6%), Hispanic-American (5%), Asian or Pacific Islander (2%), American Indian, Aleut, or Eskimo (less than 1%), and other (1%).

There were 541 unpaid caregiving sons and daughters in this study, of which 406 (75%) were daughters and 135 (25%) were sons. There were only 45 unpaid sons and daughters-in-law available, leaving an insufficient sample size to statistically analyze the children-in-law. The age of the caregivers ranged from 31 to 93 with a mean of 55. Most of the caregivers were married (56%), and the marital status of the other caregivers were divorced (17%), never married (14%), widowed (9%), separated (3%), or partnered, not married (1%). The caregivers had provided care for less than one hour per week to 168 hours per week, with a mean of 24.9 hours per week. Caregiving duration ranged from less than three months to greater than ten years, with a mean of three years. There were 253 (47%) children who lived with their parents while providing care. Of the remaining caregivers, they described the distance as living from one minute to 30 hours away from the parent, with a mean of 28 minutes. Of the caregivers, 196 (48.3%) of the daughters were employed, working a mean of 37.3 hours per

week, and 78 (57.9%) of the sons were employed, working a mean of 41.9 hours per week. The mean family income of the caregiving sons and daughters was \$27,500, and the median family income was \$35,000.

The investigator attempted to include as many cases in the analyses as possible. When the method for deriving the multiple item variable was to sum the items, all responses given were summed for all subjects who provided responses. When a variable was measured with the mean of several items, a subject was included when he or she answered more than half of the questions for that variable measure. Table 3 is a summary of the descriptive statistics.

Variable	# of	Valid N	Miss-	Min.	Max	Mean	SD
Caregiving Circumstances	items	IN	ing			<u> </u>	
Age	1	490	51	31	93	55.28	10.13
Longevity	8	509	32	1	8	5.28	1.90
Relationship	1	541	0	1	2	NA	NA
Caregiving time	1	512	29	0	168	24.94	10.16
Care provided	19	541	0	Õ	77.14	7.21	6.00
Proximity	1	507	34	Ō	1800	13.88	88.66
Resources							
External support	10	523	18	0	8	2.01	1.71
Family / friend support	8	505	36	0.13	4.0	2.96	0.72
Coping behaviors	7	502	39	0.14	3.43	2.04	0.59
Care recipient's helpful	5	508	33	0.0	5.0	2.42	1.41
behaviors							
Deterrents					<u></u>		
Care recipient's difficult	15	516	25	0.0	59.0	7.84	10.02
behaviors							
Family conflict	8	508	33	0.0	24.0	3.27	5.68
Caregiving issues	9	527	14	0.0	9.0	2.77	2.56
Caregiving Outcomes							
Self-esteem	1	509	32	1.0	5.0	4.30	1.11
Appreciation of life	1	506	35	1.0	5.0	4.29	1.03
Energy expenditure	4	514	27	0.5	4.0	1.84	0.84
Stress level	1	512	29	1.0	10.0	3.59	2.75
Physical strain	1	512	29	1.0	5.0	1.93	1.22
Financial hardship	1	510	31	1.0	5.0	1.74	1.21

Table 3: Descriptive Data for Each Variable

Predictor Variables

The demographic variables that were part of the caregiving circumstances

were described previously under the descriptive statistics. The remaining

variables are described in greater detail in this section.

Type of Care Provided

The care provided was the sum of all caregiving activities. Overall, the

caregivers provided the identified activities of daily living to some extent:

assistance with mobility, assistance with eating/feeding, getting in and out of bed,

dressing, bathing, toileting, and assisting with a bedpan. The most frequent care provided was assistance with mobility, dressing, and bathing, and for each of these ADLs, the care occurred among at least 25% of the caregivers. Assistance with the instrumental activities of daily living occurred more frequently. Fifty to 70% of caregivers managed finances, helped with things around the house, did the laundry, and transported the care recipient when needed. Over 75% of caregivers obtained groceries and did small errands. Healthcare was undertaken much less among caregivers. Yet, 40% of caregivers did administer medications other than injections. Less than 7% of caregivers administered injections and provided care related to a urinary catheter or colostomy.

Resources

In regard to external support, the primary areas of help that caregivers sought were related to obtaining assistive devices (54%), provision of personal care or nursing care (38%), and making home modifications for the care recipient (24%). There was a high degree of family and friend support (3.0 on a 4.0 scale). However, more than 70% of caregivers agreed or strongly agreed that "there is really no one who understands what you are going through." The coping behaviors that were utilized most often when the caregivers were under stress from caregiving were prayer (45% of caregivers) and talking with a friend or family member (46%). Only 3% of caregivers sought professional help when under stress from caregiving. Care recipients provided helpful behaviors to caregivers, including making the caregiver feel useful and needed (77% of caregivers), keeping company with the caregiver (66%), helping with household

chores (37%), buying things for the caregiver or giving money to offset expenses (36%), and babysitting caregiver's children (12%).

Deterrents

When examining the difficult behaviors reported by caregivers, the behavior of greatest concern (28% of caregivers) was dealing with repeated questions on almost a daily basis. The difficult behaviors that occurred for 1% or fewer caregivers on a routine basis were threatening behavior, demonstrating sexual behavior at the wrong time or place, and destroying or damaging property. The areas that brought the greatest family conflict were when the caregivers felt that other family members did not spend enough time with the care recipient (16% of caregivers) and when family members did not do their share in caregiving (16%). All other family conflict areas occurred less frequently. In regard to caregiving issues, approximately 45% of caregivers identified needing to provide care when they do not feel well enough themselves, having a limitation on their social life or free time, having less time for other family members, and needing to give up vacations, hobbies, and personal activities. Other issues identified less often included lack of privacy (28%), interruption of sleep (24%), and needing to give constant attention to the care recipient (20%).

Outcome Variables

All of the outcome variables except energy expenditure were single item measures with each having Likert scales. The overall caregiver's energy expenditure was near mid-range (mean 1.8 on a 4-point scale) with the statement that the caregiver works "hard as a caregiver but never seems to make any progress" as the greatest concern among caregivers.

Correlations Among Variables

Pearson correlation matrices were computed to determine the relationship among the caregiving circumstances variables (Table 4); associations between the circumstances variables and resources (Table 5); associations between the circumstances variables and deterrents (Table 6); associations between the circumstances variables and the caregiver outcome variables (Table 7); associations between the resources variables and the outcome variables (Table 8); associations between the deterrent variables and the outcome variables (Table 9); and associations among the dependent variables (Table 10). Polit and Beck (2004) describe that interpreting the strength of the correlation is dependent on the variables being considered: a correlation of greater than 0.5 is considered high; a correlation of 0.3 to 0.5 is considered moderate; and a correlation of 0.1 to 0.3 is of low magnitude.

	Age	Longevity	Relationship Caregiving Care	Caregiving	Care	Proximity
				Time	Provided	
Age	1.00					
Longevity	.10*	1.00				
Relationship	.04	.03	1.00			
Caregiving	.04	.02	.08	1.00		
Time						
Care	01	02	.08	.52**	1.00	
Provided						
Proximity	02	16*	.02	.04	05	1.00

Table 4. Correlation Matrix of Caregiving Circumstances Variables

** Correlation is significant at the 0.01 level (2-tailed). * Correlation is significant at the 0.05 level (2-tailed).

.

	Age	Longevity	Relation- ship	Longevity Relation- Caregiving Care ship Time Provid	Care Provided	Proximity External Family/ Coping Support friend Behavior	External Family/ Support friend	Family/ friend	Coping Behaviors	Helpful Behaviors
External	03	.13**	02	.16**	.22**	03	1.00	Support		
Support Family / friend	07	01	.11*	.05	.02	00.	.14**	1.00		
Support Coping	03	02	.05	.11*	.11*	03	.28**	.17**	1.00	
Helpful	19**	.07	.03	12**	14*	12**	05	.02	.08	1.00
Behaviors										

Table 5. Correlation Matrix of Caregiving Circumstances and Resources Variables

** Correlation is significant at the 0.01 level (2-tailed). * Correlation is significant at the 0.05 level (2-tailed).

		,)						
	Age	Longevity	Age Longevity Relationship Caregiving Care Time Provided	Caregiving Time	Care Provided		Proximity Difficult Family Caregi Behaviors Conflict Issues	Family Conflict	Family Caregiving Conflict Issues
Difficult Behaviors		.03	.07	.28**	.44**	01	1.00		
Family	16** .02	.02	.08	.19**	.19**	.02	.40**	1.00	
Caregiving	07	.05	.12**	.42**	.49**	00.	.59**	.41**	1.00
Issues									

Table 6. Correlation Matrix of Caregiving Circumstances and Deterrent Variables

** Correlation is significant at the 0.01 level (2-tailed).* Correlation is significant at the 0.05 level (2-tailed).

	Self-esteem		Energy	Stress level	Physical	Financial
			expenditure		strain	hardship
Age	02	03	10*	08	.04	07
Longevity	02		.03	.05	.08	.07
Relationship	.05		.11*	.12**	.08	.03
Caregiving Time	02		.31**	.34**	.33**	.26**
Care Provided	.01	01	.36**	.36**	.40**	.24**
Proximity	.03	11*	.06	03	05	05

Table 7. Correlation Matrix of Caregiving Circumstances and Outcome Variables

** Correlation is significant at the 0.01 level (2-tailed). * Correlation is significant at the 0.05 level (2-tailed).

	Self-	Self- Appreciation Energy	Energy	Stress	Physical	Financial
	esteem of life		expenditure	level	strain	hardship
External	.07		.28** .32** .26** .27**	.32**	.26**	.27**
Support						
Family /	.11*	.13**	.13**	.05	.02	.05
friend						
Support						
Coping	00.	.05	.23**	.23**	.22**	.19**
Behaviors						
Helpful	.10*	.07	15**	22**	21**	11
Behaviors						

Table 8. Correlation Matrix of Resources Variables and Outcome Variables

** Correlation is significant at the 0.01 level (2-tailed). * Correlation is significant at the 0.05 level (2-tailed).

	Self-	Appreciation Energy Stress Physical Financial	Energy	Stress	Physical	Financial
	esteem	of life	expenditure	level	strain	hardship
Difficult	11*	10*	.52**	.52**	.48**	.32**
Behaviors						
Family	03	07	.40**	.40**	.35**	.29**
Conflict						
Caregiving	.68**	.61**	.49**	.59**	.41**	.49**
lssues						

Table 9. Correlation Matrix of Deterrent Variables and Outcome Variables

** Correlation is significant at the 0.01 level (2-tailed). * Correlation is significant at the 0.05 level (2-tailed).

	Self-esteem	Appreciation of Energy	Energy	Stress level	Physical strain	Financial hardshin
Self-esteem	1.00					
Appreciation of life	.63**	1.00				
Energy exnenditure	05	05	1.00			
Stress level	11*	08	.73**	1.00		
Physical strain	06	07	.61**	.68**	1.00	
Financial hardship	.03	02	.43**	.49**	.49**	1.00

Variables
Outcome
Matrix of
orrelation
able 10. Co
F

** Correlation is significant at the 0.01 level (2-tailed). * Correlation is significant at the 0.05 level (2-tailed).

.

Correlations Between Predictor Variables

When examining the caregiving circumstances variables, there were some significant correlations. As expected, there was a high degree of correlation between the amount of caregiving time and the care provided. There were two low correlations between the circumstances variables. Caregivers that provided care over longer periods of time lived closer to the care recipient, and older caregivers provided care for longer periods of time. Although there were some significant positive correlations between resources variables and between the resource variables and circumstances variables, they were only low correlations. Caregivers utilized more external support as more care was provided that required more time and lasted a longer period of time. More daughters sought the support of family or friends. When caregivers enlisted family or friend support, they also utilized external support. With increased frequency of care, coping behaviors were needed. The caregivers who used effective coping behaviors also sought external, family, or friend support. There were fewer care recipient helpful behaviors when more care was provided, increased time was spent in caregiving, the caregiver was older, and the caregiver lived further away.

Two variables had a moderate correlation among the deterrent variables. There was more family conflict when there were greater caregiving issues for the caregiver and more difficult behaviors exhibited by the care recipient. There was one high correlation between deterrent variables. With more care recipient difficult behaviors, the caregiving issues increased significantly. There were moderate correlations between the circumstances and deterrent variables, and

the remainder were low correlations. As more care was provided that took more time in a week, all of the deterrent variables were recognized. Older caregivers had fewer family conflicts, and daughters had more caregiving issues than sons. *Correlations Between Predictor Variables and Outcome Variables*

As would be expected, caregivers who provided more care that took more time during the week experienced greater exhaustion, stress, physical strain, and financial hardship. Those caregivers who perceived a greater drain of energy, stress, physical strain, and financial hardship utilized more external support and their own coping behaviors, but received fewer helpful behaviors from the care recipient. The caregivers who perceived support from family or friends also perceived a higher self-esteem and appreciation of life, while expending greater amounts of energy in providing care. Deterrent variables had significant correlations with the outcomes. Caregivers who experienced more issues, difficult behaviors from the care recipient and greater family conflict perceived greater stress, physical strain, financial hardship, and energy expenditure for caregiving. The care recipient's difficult behaviors decreased the perception of self-esteem and appreciation of life. Caregivers with greater self-esteem and appreciation of life also reported more caregiving issues. Daughters identified a greater appreciation for life while expending more energy and experiencing greater stress.

Correlations Between Outcome Variables

There were significant positive correlations between the outcome variables. Caregivers who reported higher self-esteem also reported a greater

appreciation of life even though they had a high stress level. Those that endured financial hardship expended more energy and had higher stress and physical strain. Physical strain among caregivers also was related to stress and the degree of energy for caregiving, and with greater energy needed for caregiving, there was greater perceived stress.

Multiple Regression Analysis

Multiple regression analyses were computed to determine which of the predictor variables were related to the caregiver outcome variables. The six caregiving circumstances predictor variables were regressed stepwise upon each outcome variable. The results are presented in Table 11. Five variables were significant predictors of caregiving outcomes when the other predictors were controlled: age, relationship, caregiving time, care provided, and proximity. Of these predictor variables, caregiving time and amount of care provided positively predicted four outcomes: energy expenditure, stress, physical strain, and financial hardship. There were two caregiving circumstances that predicted two outcomes; age predicted energy expenditure, and stress level and proximity predicted appreciation of life and energy expenditure. The relationship to the parent, specifically daughters, predicted the stress level in the regression model. Table 11 shows longevity was unrelated to all of the six caregiving outcome variables at the 95% confidence interval. This regression analysis provided a preliminary analysis for the path analysis, and as a result, the longevity variable was excluded from the path analysis.

radie 11. Stepwise multiple regression Standardized Beta Coe	Standardized B	Standardized Beta Coefficients				
	Self-esteem	Appreciation of	Energy	Stress Level	Physical Strain	Financial
		Life	Expenditure			Hardship
	(n=470)	(n=468)	(n=473)	(n=473)	(n=471)	(n=468)
Age	03	03	09*	09*	.04	08
Longevity	03	05	.05	.04	.07	.06
Relationship	.03	* 60 [.]	.08	*60 .	.05	.01
Caregiving	03	00.	.16***	.20***	.17***	.19***
Care Provided	01	03	.28***	.24***	.31***	.15**
Proximity	.04	10*	.08	03	04	05
R-square	.004	.01	.17	.17	.18	60.
F-Value	.35	4.80*	23.49***	23.96***	50.00***	21.51***
Degrees of	df=6	df=1	df=4	df=4	df=2	df=2
Freedom	df=473	df=466	df=468	df=468	df=468	df=465

*Coefficient is significant at the .05 level **Coefficient is significant at the .01 level ***Coefficient is significant at the .001 level

.

Additionally, the resources and deterrent variables were regressed in separate blocks upon each outcome variable, and the results are in Tables 12 and 13. All four of the resources variables had relationships with some of the caregiving outcome variables. Three variables were significant predictors of energy expenditure, stress level, physical strain, and financial hardship: external support, coping behaviors, and care recipient's helpful behaviors. Self-esteem was predicted by family or friend support and care recipient's helpful behaviors. Only family or friend support predicted appreciation of life. Similarly, all three of the deterrent variables had relationships with some of the caregiving outcome variables. All three of the variables were significant predictors of energy expenditure, stress level, and physical strain. Family conflict and caregiving issues predicted financial hardship. The care recipient's difficult behavior variable was the only predictor of self-esteem and appreciation of life.

	Self-esteem	Appreciation of	Energy	Stress Level	Physical Strain	Financial
		Life	expenditure			Hardship
	(n=495)	(n=493)	(n=495)	(n=494)	(n=492)	(n=491)
External	.05	.02	.21***	.25***	.19***	.21***
Support						
Family / friend	.10*	.12**	.07	01	04	013
Support						
Coping	03	.03	.18***	.17***	.18***	.14**
Behaviors						
Care Recipient	.10*	.07	16***	22***	22***	11*
Helpful						
Behaviors						
R-square	.02	.01	.12	.16	.13	60.
F-Value	5.02**	7.12**	22.34***	31.85***	24.60***	16.43***
Degrees of	df=2	df=1	df=3	df=3	df=3	df=3
Freedom	df=492	df=491	df=491	df=490	df=488	df=488

C C 1:04:1-Ć C A Luitin (Tahla 12 Stenwis

*Coefficient is significant at the .05 level **Coefficient is significant at the .01 level ***Coefficient is significant at the .001 level

Self-esteem (n=504) Difficult11* Behaviors Familv Conflict 02	Self-esteem Appreciation of Life (n=504) (n=502) 11*11*	Energy expenditure	Strace Laval		
	Life (n=502) 11*	expenditure		Physical Strain	Financial
	(n=502) 11*				Hardship
-	11*	(n=506)	(n=505)	(n=504)	(n=502)
		.12**	.15***	.16***	.02
	04	.10**	.12***	-08	.10*
Caregiving02	.03	.61***	.54***	.48***	.45***
lssues					
R-square .01	.01	.54	.49	.40	.25
F-Value 6.58*		197.00***	162.41***	112.07***	82.81***
Degrees of df=1	df=1	df=3	df=3	df=3	df=2
Freedom df=502	0	df=502	df=501	df=500	df=499

Table 13. Stepwise Multiple Regression Analysis: Predicting Caregiving Outcomes from Deterrents

*Coefficient is significant at the .05 level

Coefficient is significant at the .01 level *Coefficient is significant at the .001 level

Path Analysis

After examining the regression analyses, the path analysis was completed in a series of steps. Initially, the caregiving circumstances variables were entered as exogenous variables, and each of the resources and deterrent variables were entered as endogenous variables. Second, the caregiver outcome variables were entered one at a time as endogenous variables, while the predicting circumstances, resources, and deterrents variables were entered as exogenous variables. The predictor variable of longevity was unrelated to all of the six caregiving outcomes in the preliminary regression analysis and was excluded from the path analysis to trim the model. In the path analysis, the caregiving circumstances, resources, and deterrents explained the variance in caregiving outcomes to some degree. The significant path coefficients are summarized in Tables 14, 15, and 16. Figures 3 through 8 depict the predictors for each caregiving outcome.

	External Support	Family / friend Support	Coping Behaviors	Care Recipient Helpful Behaviors
	(n=449)	(n=447)	(n=447)	(n=448)
Age	02	09*	04	21***
Relationship	04	.11*	.05	.05
Caregiving	.03	.05	.11*	04
Time				
Care Provided	.23***	02	.07	16***
Proximity	00	.05	04	12**
R-square	.05	.02	.01	.08
F-Value	24.22***	4.59*	5.25*	12.97***
Degrees of	df=1	df=2	df=1	df=3
Freedom	df=447	df=444	df=445	df=444

Table 14. Path Analysis: Significant Path Coefficients (Standardized Beta)Between Circumstances Variables and Resource Variables asMediators

*Coefficient is significant at the .05 level

**Coefficient is significant at the .01 level

***Coefficient is significant at the .001 level

Table 15. Path Analysis: Significant Path Coefficients (Standardized Beta)Between Circumstances Variables and Deterrent Variables asMediators

	Care Recipient Difficult Behaviors	Family Conflict	Caregiving Issues
	(n=449)	(n=446)	(n=449)
Age	01	17***	07
Relationship	.04	.06	.09*
Caregiving Time	.09	.12*	.21***
Care Provided	.44***	.14**	.36***
Proximity	.02	.02	.02
R-square	.19	.08	.27
F-Value	105.96***	11.93***	54.07***
Degrees of	df=1	df=3	df=3
Freedom	df=447	df=442	df=445

*Coefficient is significant at the .05 level.

**Coefficient is significant at the .01 level.

***Coefficient is significant at the .001 level.

Table 16. Path Analysis: Predictors of the Elder Care Outcomes by Adult Children Standardized Beta Coefficients	ors of the Elder C Standardized	of the Elder Care Outcomes by Standardized Beta Coefficients	by Adult Childrer its	Ē		
	Self-esteem	Appreciation of life	Energy expenditure	Stress level	Physical strain	Financial hardship
	(n=444)	(n=444)	(n=444)	(n=444)	(n=444)	(n=444)
Caregiving Circumstances						
Age	04	02	04	04	.07*	03
Relationship		60 [.]	.02	.02	00	04
Caregiving Time	00.	.01	01	-07	.08*	.08
Care Provided		01	01	02	.07	.02
Proximity		12*	.07*	04	06	05
Resources	1					
External Support		.05	01	.06	.02	60.
Family / friend Support	.14**	.15**	.03	04	06	02
Coping Behaviors	. 04	.07	.03	.03	.06	.08
Care Recipients' Helpful	.08	.05	.02	06	06	03
Behaviors						
Deterrents						
Care Recipient Difficult	15***	13**	.12**	.15***	.14**	.03
Behaviors						
Family Conflict	.02	04	.12**	.13***	.10*	.11*
Caregiving Issues	07	05	.59***	.50***	.45***	.43***
R-square	.04	.05	.55	.50	.41	.23
F-Value	8.93***	7.33***	131.30***	110.89***	61.86***	67.28***
Degrees of Freedom	df=443	df=443	df=443	df=443	df=443	df=443
		1 - - -				

*Coefficient is significant at the .05 level. **Coefficient is significant at the .01 level. ***Coefficient is significant at the .001 level.

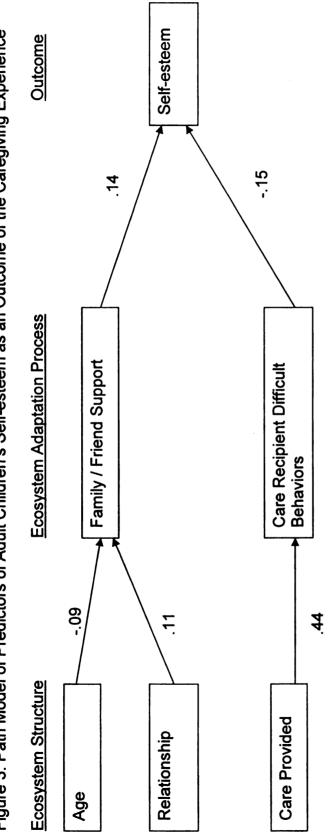
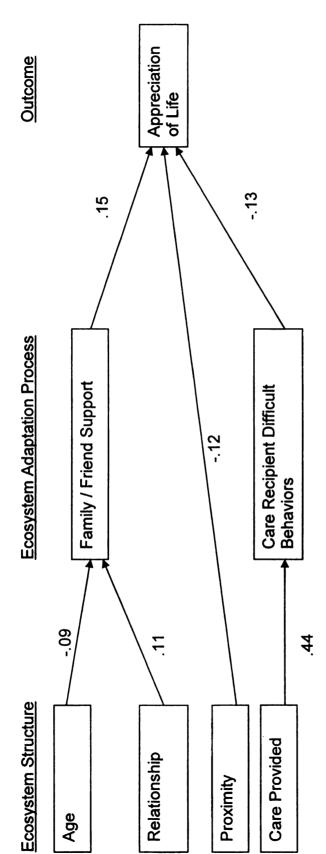


Figure 3: Path Model of Predictors of Adult Children's Self-esteem as an Outcome of the Caregiving Experience





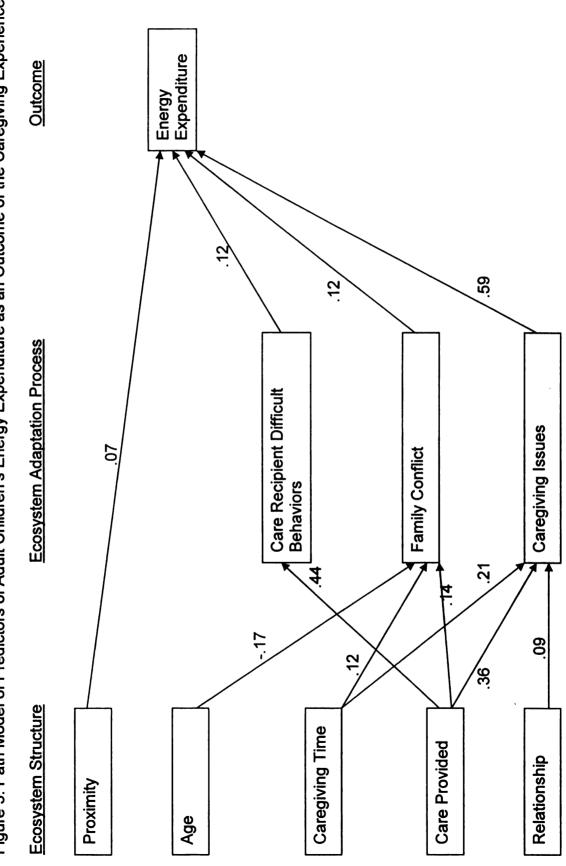


Figure 5: Path Model of Predictors of Adult Children's Energy Expenditure as an Outcome of the Caregiving Experience

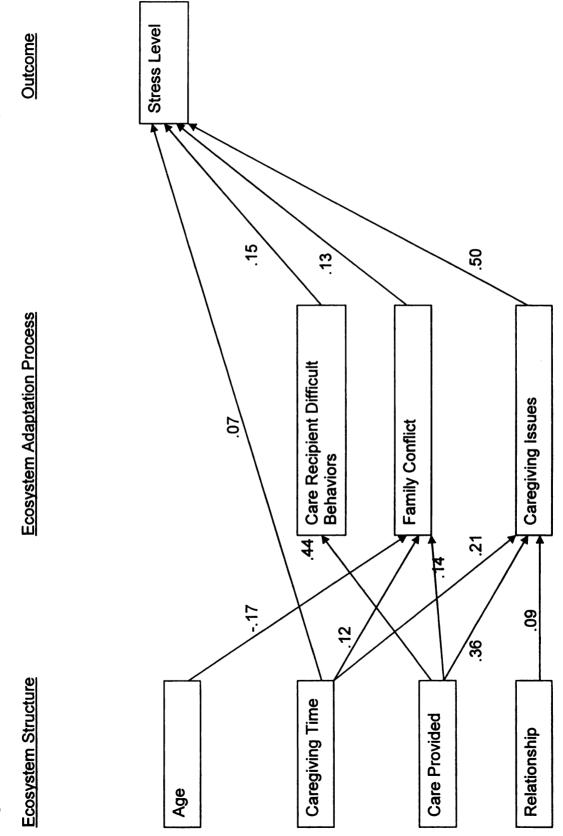


Figure 6: Path Model of Predictors of Adult Children's Stress Level as an Outcome of the Caregiving Experience

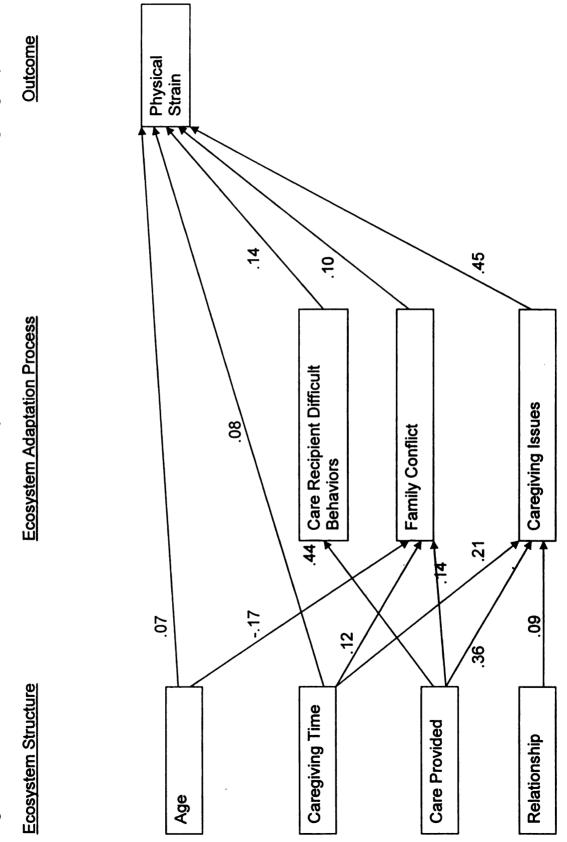


Figure 7: Path Model of Predictors of Adult Children's Physical Strain as an Outcome of the Caregiving Experience

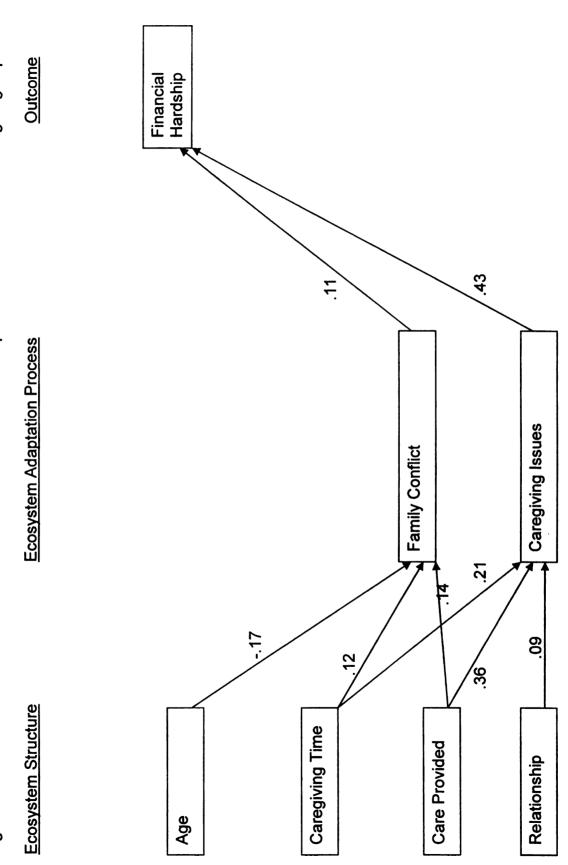


Figure 8: Path Model of Predictors of Adult Children's Financial Hardship as an Outcome of the Caregiving Experience

Several predictors affected the caregivers' outcomes. Younger daughters achieved greater self-esteem and appreciation of life when care was mediated by family or friend support. On the contrary, a lower self-esteem and appreciation of life was recognized when the care provided was mediated by the care recipient's difficult behaviors. Appreciation of life was gained when the caregiver lived closer to or with the care recipient. There was a direct effect of living close to or with the care recipient on the outcome of energy expenditure in care provision. Caregiving time had a direct effect on the caregiver's stress level. Caregiver age and caregiving time had a direct effect on physical strain, and family conflict mediated age for energy expenditure, stress level, physical strain, and financial hardship. Caregiving issues mediated the daughter's energy expenditure, stress level, physical strain, and financial hardship. The deterrent variables mediated caregiving time and the care provided for energy expenditure, stress level, and physical strain. Financial hardship was explained by age, caregiving time, care provided, and being a daughter which was mediated by family conflict and caregiving issues. As noted in Tables 16, three of the four resource variables (external support, coping behaviors, and care recipient helpful behaviors) were not mediators. All four deterrent variables were mediators.

Comparison of Groups

T-tests were computed at the 95% confidence interval to determine if there were significant differences among the caregiving sons and daughters in regard to each caregiving outcome. Table 17 demonstrates the results of the ttest analysis.

	Relationship	n	Mean	SD	Df	Т	Significance (2-tailed)
Self-esteem	Son	126	4.21	1.15	503	-1.15	.25
	Daughter	379	4.34	1.10			
Appreciation	Son	126	4.12	1.12	500	-2.22	.03*
of Life	Daughter	376	4.35	0.99			
Energy	Son	127	1.68	0.74	506	-2.51	.01*
expenditure	Daughter	381	1.90	0.87			
Stress Level	Son	127	1.76	1.11	504	-1.87	.06
	Daughter	379	2.00	1.25			
Physical	Son	125	1.68	1.09	502	68	.50
Strain	Daughter	379	1.77	1.26			
Financial	Son	127	3.03	2.34	504	-2.72	.01**
Hardship	Daughter	379	3.79	2.86			

Table 17. T-tests of Caregiving Sons & Daughters for Caregiving Outcomes

*T-test is significant at <.05 level.

**T-test is significant at <.01 level.

The results demonstrate that when comparing caregiving children, daughters had a greater appreciation of life while experiencing greater energy expenditure and enduring greater financial hardship.

One-way ANOVAs were calculated to determine whether there were significant differences between groups when considering age and longevity of care. Tables 18 and 19 show the results of the one-way ANOVAs. When comparing four groups of caregivers according to age (group 1 ages 31-48, group 2 ages 49-56, group 3 ages 57-62, group 4 ages 63-93), there was no significant difference in caregiving outcomes. The longevity of caregiving time was divided into five groups to create greater equality of numbers in each group. The groups were less than one year, 1-2 years, 2-4 years, 4-7 years, and greater than 7 years. There was no significant difference in caregiving.

	1))	
	Group 1	Group 2	Group 3	Group 4	L	Significance
	(ages 31-48)	(ages 49-56)	(ages 57-62)	(ages 63-93)		I
	Mean		Mean	Mean		
	(SD)		(SD)	(SD)		
	n=116		n=133	n=113		
Self-esteem	4.42		4.27	4.33	.40	.75
	(1.06)		(1.12)	(1.14)		
Appreciation of	4.39		4.17	4.37	1.27	.28
Life	(66.)		(1.15)	(88)		
Energy	1.95		1.79	1.72	2.14	60 [.]
Expenditure	(.85)	(.88)	(88)	(.73)		
Stress Level	3.94		3.57	3.29	1.10	.35
	(2.87)		(2.93)	(2.37)		
Physical Strain	1.91		1.96	2.01	.15	.93
	(1.03)		(1.37)	(1.26)		
Financial	1.94		1.53	1.73	2.56	.05
Hardship	(1.42)	(1.34)	(:95)	(1.15)		
Ono Mon MONO	A is significant of	~ 05 lovel				

Table 18. One-Way ANOVA of Four Age Groups of Caregiving Children and Caregiving Outcomes

One-Way ANOVA is significant at <.05 level.

	Group 1	Group 2	Group 3	Group 4	Group 5	LL	Significance
	(< 1 year)	(1-2 years)	(2-4 years)	(4-7 years)	(> 7 years)		I
	Mean	Mean	Mean	Mean	Mean		
	(SD)	(SD)	(SD)	(SD)	(SD)		
	06=u	n=71	n=93	n=119	N=126		
Self-esteem	4.29	4.21	4.49	4.40	4.18	1.41	.23
	(1.01)	(1.24)	(.95)	(1.01)	(1.26)		
Appreciation	4.26	4.32	4.46	4.34	4.18	1.08	.37
of Life	(1.12)	(.94)	(.96)	(.95)	(1.10)		
Energy	1.85	1.78	1.82	1.84	1.88	.19	.94
expenditure	(.93)	(.83)	(77)	(.80)	(.88)		
Stress Level	3.33	3.34	3.96	3.65	3.63	.77	.54
	(2.78)	(2.81)	(2.68)	(2.70)	(2.85)		
Physical	1.86	1.69	1.99	2.00	2.05	1.20	.31
Strain	(1.24)	(1.02)	(1.18)	(1.23)	(1.34)		
Financial	1.52	1.75	1.78	1.83	1.80	.94	44.
Hardship	(1.11)	(1.27)	(1.21)	(1.28)	(1.22)		

Table 19: One-Way ANOVA of Five Longevity Groups of Caregiving Children and Caregiving Outcomes

Summary of Results

In this section, the results of the study are summarized. The summary is presented according to the research questions and research hypotheses addressed in this study.

Research question 1: What is the relationship between the intergenerational caregiving circumstances variables and each caregiver outcome variable? *Hypothesis 1*: Caregivers who care for their elderly parent(s) more hours per week will perceive increased energy expenditure and an increased stress level.

The results are consistent with this hypothesis. The caregiving circumstances that had more significant relationships with caregiving outcomes included relationship, caregiving time, and the amount of care provided. Daughters demonstrated an increased appreciation of life, an increased stress level, and increased energy expenditure as a result of caregiving in correlations and in multiple regression analysis. The amount of time and care provided positively related to increased energy expenditure decreased as the caregiver age increased. Appreciation of life decreased as the proximity to the care recipient increased. Regression analyses further supported these findings, indicating that caregiving time and care provided significantly predicted energy expenditure, stress level, physical strain, the mount of the set o

Research question 2: What is the relationship between intergenerational caregiving resources and the caregiver outcome variables? Hypothesis 2: Caregivers who receive family or friend support will appraise the caregiver outcome with a decreased stress level.

The data were not consistent with this hypothesis. The family or friend support did not correlate with or predict stress level.

External support and coping behaviors had a positive correlation and care recipient helpful behaviors had a negative correlation with energy expenditure, stress level, physical strain, and financial hardship. Regression analyses also revealed that external support and coping behaviors positively predicted energy expenditure, stress level, physical strain, and financial hardship, while care recipient helpful behaviors negatively predicted the same outcomes. Family or friend support positively correlated with self-esteem, appreciation of life, and energy expenditure. Again, similar results occurred with the regression analyses, demonstrating that family or friend support predicted self-esteem and appreciation of life. The care recipient helpful behaviors were found to correlate with and predict self-esteem.

Research question 3: What is the relationship between intergenerational caregiving deterrents and the caregiver outcome variables? *Hypothesis* 3: Caregivers who experience family conflicts will appraise the caregiver outcome with an increased stress level.

The data were consistent with this hypothesis. All three caregiving deterrents (care recipient difficult behaviors, family conflict, and caregiving

issues) revealed a significant relation with energy expenditure, stress level, physical strain, and financial hardship. The multiple regression analyses revealed that care recipient difficult behaviors, family conflict, and caregiving issues predicted energy expenditure, stress level, and physical strain. Family conflict and caregiving issues predicted financial hardship. Additionally, the caregiving issues positively related to self-esteem and appreciation of life, while care recipient difficult behaviors had a negative relationship with the same outcomes.

Research question 4: Do caregiving resources mediate the effects of intergenerational caregiving circumstances on the caregiver outcome variables? *Research question 5*: Do caregiving deterrents mediate the effects of intergenerational caregiving circumstances on the caregiver outcome variables? *Hypothesis 5*: Family conflict mediates the effect of the caregiving circumstances on the intergenerational caregiver outcome variables.

Data supported this hypothesis. As presented in the path analysis section of this chapter, family or friend support was the only resource variable that mediated the effect of age and relationship for the outcomes of self-esteem and appreciation of life. The deterrent variables of care recipient difficult behaviors, family conflict, and caregiving issues mediated the effects of some caregiving circumstances on the outcomes. Difficult behaviors mediated the care provided for all six outcomes. Family conflict was found to mediate age, caregiving time, and the care provided on the outcomes of energy expenditure, stress level, physical strain, and financial hardship. Lastly caregiving issues mediated the

relationship, care provided, and caregiving time on energy expenditure, stress level, physical strain, and financial hardship.

Research question 6: Are there significant differences in the intergenerational caregiver outcome variables among daughters, sons, daughters-in-law, and sons-in-law?

Hypothesis 6: Daughters and daughters-in-law will appraise the caregiving outcome with an increased stress level and greater physical strain.

As was previously mentioned, there was an inadequate sample size to compare groups including the daughters-in-law and sons-in-law. However, the daughters and sons were compared to determine if there were differences in the caregiver outcomes. This hypothesis was not supported by the data. However, the results did show that daughters had a greater appreciation of life and energy expenditure while experiencing greater financial hardship.

Research question 7: Are there significant differences in the intergenerational caregiver outcomes variables according to the age of the caregiver? Research question 8: Are there significant differences in the intergenerational caregiver outcome variables as the length of the caregiving experience increases?

Hypothesis 8: Caregivers who care for their elderly parent(s) more years will perceive increased energy expenditure and an increased stress level.

This hypothesis was not supported. There was no significant difference in caregiving outcomes when comparing caregivers of different ages and at different lengths of time of caregiving.

CHAPTER 5

Discussion and Conclusions

This chapter includes a summary and discussion of study findings, limitations of this study, and implications for practice, education, and future research.

Summary and Discussion of Findings

The overall purpose of this study was to determine the predictors of the intergenerational caregiving experience. Predictors included caregiving circumstances, resources, and deterrents. Positive and negative outcomes of the caregiving experience were measured including self-esteem, appreciation of life, energy expenditure, stress level, physical strain, and financial hardship.

As the caregiving circumstances are considered, the caregiving time and the amount of care provided related to and predicted the outcomes of energy expenditure, stress level, physical strain, and financial hardship. The increased stress level is consistent with previous research findings (Atienza, Stephens, & Townsend, 2002; Braithwaite, 2000; Brody, 1985; Mui, 1995). However, there are inconsistent findings related to the caregiving time. Dautzenberg, Diedricks, Philipsen, and Tan (1999) identified that the subjective evaluation of the caregiver role affected the daughters as caregivers more than the amount of caregiving time. Perceived financial hardship is significant, especially in relationship to caregiver stress. Starrels et al. (1997) found a strong correlation between the amount and type of care provided and time taken off from work, which resulted in increased caregiver stress. Realizing the effects of the type of

care provided and potentially the time spent providing care, the professional can identify resources that will support the caregiver.

When reviewing the resources, most caregivers utilized external support that would assist in the caregiving tasks, which eased the physical nature of the care, without attending to the caregivers' personal needs for support. This study demonstrated that there was minimal use of support groups, professional help, and respite resources. This finding is consistent with other studies of caregiving women's use of, interaction with, and influences of professional support (Brubaker, 1990; Heinrich, Neufeld, and Harrison, 2003). Issues surrounding external support may include access, time available, and perceived need. Because of a sense of responsibility or obligation, caregivers may sense failure if they seek external support. Coping behaviors were used, and among them, prayer and talking with a trustworthy friend or relative were used most often. The spiritual well being of the caregiver was a source of strength. This is consistent with findings of Wilcox, O'Sullivan, and King (2001) that the most frequently used coping strategies were recognizing blessings, problem-focused coping, and seeking social supports. While it is expected that immediate assistance for physical caregiving is attained, it will be important for professionals to refer additional sources of external support to promote positive outcomes of the experience. Not only is referral necessary, but also a means to be relieved of caregiving should be determined so that alternative methods of external support and coping can be utilized. Caregiver resources must be identified and utilized

so that quality caregiving, positive outcomes, and caregiving stress can coexist (Greenberger, 2003).

Family or friend support had positive correlations with self-esteem, appreciation of life, and energy expenditure. As caregivers use support systems and adapt to improve self-concept, they may transform these positive results into mobilized energy and therefore to provide a greater amount of care. In the regression analyses, self-esteem and appreciation of life was predicted by family or friend support. This finding is consistent with previous findings in which emotional and social support from family and friends related to higher levels of satisfaction and an inverse relationship with distress and depression (Franks & Stephens, 1996). Developing ways to engage in supportive contacts with trustworthy family and friends can enhance the positive outcomes of caregiving.

The care recipient helpful behaviors had a positive correlation and predicted self-esteem, but a negative correlation and prediction of energy expenditure, stress level, physical strain, and financial hardship. The most frequently identified helpful behavior was making the caregiver feel useful and needed, which should relate to an increased self-esteem. Previous researchers found that emotional support from the care recipient was most beneficial. Consistent with Ingersoll-Dayton, Neal, and Hammer (2001), tangible supports of helpful behaviors were not consistently recognized as beneficial by caregiving daughters and sons. Yet, receiving help from the elderly parent was beneficial in terms of the quality of the relationship and the self-appraisal of caregiving performance. Congruent with this study, emotional support was consistently the

most beneficial form of assistance from the elderly parent. Professionals can intervene by assisting to strengthen the emotional relationship between parent and caregiving child to reap the emotional rewards of caregiving.

All three caregiving deterrents, care recipient's difficult behaviors, family conflict, and caregiving issues, revealed a positive correlation with energy expenditure, stress level, physical strain, and financial hardship. Family conflict, especially among siblings, has an effect on caregiving stress, and sibling cooperation is an important variable in continuation of elder care (Dwyer, Henretta, Coward, & Barton, 1992). The care recipient's difficult behaviors had a negative correlation with self-esteem and appreciation of life. The most frequent caregiving issues primarily focused on the needs of the caregivers in relation to time for themselves or other family and the provision of care when they did not feel well enough themselves. These findings related to caregiver needs further reinforce the necessity for respite for the caregiver.

Self-esteem and appreciation of life was predicted by family or friend support, while it was negatively influenced by the care recipient's difficult behaviors. The deterrent variables of care recipient difficult behaviors, family conflict, and caregiving issues predicted energy expenditure, stress level, and physical strain. Physical strain also was predicted by age and caregiving time. Financial hardship was predicted by external support, family conflict, and caregiving issues. Additionally, caregiving issues, family conflict, and care recipient's helpful and difficult behaviors were mediators for several of the caregiver outcomes.

Among the predictor variables, deterrent variables explained most of the variance in the caregiving outcomes. This result is consistent with prior research (Acton, 2002, Larrimore, 2003). Horowitz (1985) found emotional support from siblings mediated caregiver strain, which was found for daughters in this study. Family and friend support was a significant mediator for the outcomes of self-esteem and appreciation of life. It is important to realize that there are both positive and negative outcomes in the caregiving experience. Costs and rewards may become balanced if it is determined which predictors explain the outcomes to the greatest degree. This further reinforces the need for a thorough individualized assessment of the caregiving experience in the context of the caregivers' whole life.

Daughters continue to provide the greatest amount of intergenerational care. Even though caregiving is generally considered a daughter's issue, more sons are providing various kinds of care (Houde, 2001). However, these men are less often the primary caregivers, and only primary caregivers were considered in this study. Differences were found regarding appreciation of life, energy expenditure, and financial hardship. For each of these outcomes, daughters experienced a higher level in the identified outcomes. This is especially important to note as daughters continue to juggle many roles contributing to the caregiving issues described in this study. There is a greater complexity in the responsibilities and number and types of roles of daughters as caregivers (Mui, 1995). This complexity of roles further affects the caregiving experiential outcomes. Yet, the quality of roles rather than the occupancy of

multiple roles are more significant when measuring caregiver distress (Parris Stephens & Townsend, 1997). Financial hardship may occur because it has previously been demonstrated that women often must reduce their employment status or quit working to provide care (Haley, 1997), and daughters often have fewer financial resources prior to the caregiving experience. Because daughters tend to continue to provide the greatest amount of care, the perception of a greater appreciation of life should be identified and enhanced for this group.

In this study, no significant differences were found in caregiving outcomes based on age and longevity of the caregiving experience. Considering the increase in the number of elderly persons, especially the oldest old, increase in family caregivers, and the prevalence of disability among the elderly (U.S. Administration Agency on Aging, 2004; U.S. Senate Special Committee on Aging, 2004), one would expect a difference in the caregiving outcomes as the caregiver ages and as length of caregiving experience lengthens. In this study, the care provided was measured as the total amount of any type of care provided. A majority of caregivers provided IADLs, with approximately half of the sample providing ADLs and health care. There may be a difference in groups as the type of care is distinguished.

Application of Theoretical and Conceptual Frameworks

Human ecology theory, a life course perspective, and Kramer's model of caregiver adaptation were used as frameworks in this study (Bengtson& Allen, 1993; Bubolz & Sontag, 1993; Kramer, 1997a; Price, McKenry, & Murphy, 2000). Each of these models had merit. Kramer's use of background and context were

similar to the caregiving circumstances used in this study with the exception of care recipient characteristics and caregiver attitudes. Kramer included stressors as part of the context, whereas, this investigator included deterrents as an intervening or adaptation process. Resources were instrumental mediators in both Kramer's model and the model used in this study. Positive and negative outcome indicators were also measured in both models. By altering Kramer's model as described, the conceptual model for this study was congruent with human ecology theory. Additionally, this study's conceptual model provided a framework to analyze the data in an appropriate manner for the research questions and hypotheses. Alteration of Kramer's model remains an overall fit for the model used in this study.

Furthermore, the human ecology theory is a supportive framework for this study. Linkages of concepts in the theory relate well to the model developed for this study. Caregivers with various characteristics interacted with the sociocultural environment and encountered various resources and deterrents as they adapted to the caregiving process to achieve identified positive and negative caregiving outcomes. These conceptual linkages are consistent with the human ecology theory. The positive outcomes of caregiver self-esteem and appreciation of life are congruent with the improved quality of life outcome in the human ecology theory. Adaptation is a key process in human ecology theory and is vital in the caregiving process. Adaptation to caregiving occurred through several mediators and also was recognized with positive outcomes of self-esteem and appreciation of life, especially among daughters. The utilization of

resources and response to deterrents as mediators in the adaptation process were determinants of the caregiving outcomes.

Reflecting on human ecology theory, the caregivers may be effectively engaging in adaptation through processes of perception, organization, decision making, management, and sustenance activities that affect the judgment of the caregiving outcome. Also, when relating to Kramer's model, the caregiver's attitude and appraisal may be additional subjective factors that are not taken into account in this study. The caregiver's attitude may be derived from a sense of responsibility, reciprocity, and duty that can occur during the life course. Finding meaning in the caregiving experience may affect perceptions and bring the positive and negative outcomes in greater balance. Other studies have found that caregivers with higher levels of meaning through caregiving experienced lower depression, could make sense of the experience, and had a better understanding of themselves and their own feelings (Ayers, 2000; Farran, Miller, Kaufman, & Davis, 1997).

As a part of human ecology theory, Bubolz and Sontag (1993) describe human development as a "process of ongoing and interrelated changes in an individual's ability to perceive, conceptualize, and act in relation to his or her environment" (p. 437). Over the life course, human development occurs in interaction with the social-cultural environment. Filial responsibility and obligation to care for an elderly parent may be a result of the larger social-cultural context in which the role responsibilities between adult children and parents unfold. Daughters generally report higher levels of felt obligation than sons (Stein,

Wemmerus, Ward, & Gaines, 1998), and this is reflected in the greater number of daughters as caregivers. Additionally, daughters may have been socialized in the caregiving role as a part of their interaction with the social-cultural environment, particularly the influence from their mother related to caregiving responsibility. Rollins-Bohannon and White-Blanton (1999) explain that parent attitudes in general, and especially mothers' attitudes, are significant predictors of the attitudes of their daughters. Even though societal norms change over time, early gender socialization of daughters has life long effects.

When examining elder care, a life course perspective is foundational to understanding family health over time (Bengtson & Allen, 1993). Families continue across the lifespan to shift energy expenditure to address the demands and needs of the family members. Parent care has been proposed as a developmental task of the adult sibling network (Cicirelli, 1994). Additionally, from a life course perspective, elder care can be viewed as a developmental task of middle to later life. The adult child provides reciprocity for support and care received by the parent, gains maturity and wisdom, and becomes better prepared for his or her own later years. Despite using age as a measure of the life course and a circumstance variable in this study, developmental stage must be reviewed for its effect on the nature of the caregiving experience, family relationships, role responsibilities, and the needed support for the caregiver at a given life stage. Even though this study did not demonstrate differences among different ages of caregivers or differences in longevity of care, the developmental roles and tasks at different stages of adulthood would lead one to assume that variances should

occur. When considering the positive outcomes, reciprocity, and positive, helpful behaviors of the care recipient leading to improved caregiver self-esteem and appreciation of life, the life course perspective is also reinforced. These rewards and benefits accrue during the caregiving experience and continue in memory with increased value after the parent's death. A life course perspective reinforces these underlying benefits.

Human ecology theory and a life course approach are useful frameworks in planning elder parent care as a significant challenge to the family. These frameworks can direct emphasis to benefits of the experience as well as draw attention to the roles and needs of the family members involved.

Limitations of the Study

This study utilized secondary data analysis. This provided an opportunity to have a large representative sample, and involved analyzing the data in dimensions that previously have not been examined. Trained interviewers collected the data using structured interviews where the lengthy schedule of questions was pre-established. Using this method, the interviewer does not further explain the meaning of the question or modify the question. There may have been time constraints for some subjects due to the length of the survey. The subject was limited to the range of responses from the survey. Consequently, some items were missing because they did not apply, the subject chose not to respond, or there were time limitations to complete the entire survey.

While secondary analysis of this large data set from NLTCS was efficient and economical, it did lack some variables that were of interest to the investigator. For example, most noteworthy is the lack of data on the caregiver's race. Even though the care recipient's race was available, the caregiver's race was not available. One cannot assume that the race is the same for parent and child. These data would have been especially useful in understanding the cultural implications of intergenerational caregiving. Additionally due to the nature of a very large data set, the investigator anticipated that there would be more children in-law represented in the study. Elder care provided by childrenin-law has rarely been studied. It was hoped that this study could have provided valuable results related to both adult children and children-in-law as caregivers.

Another limitation is the measurement of some variables as single-item responses. Outcome variables such as self-esteem, appreciation of life, stress level, and physical strain were measured with a single item. Single item measures can reduce the validity of the measure. Measurement and systematic error can be expected with single item measures (Polit & Beck, 2004).

The surveys were a self-report to the interviewer. The caregiving resources and deterrents were a measure of the degree to which they occurred for the caregiver. Additionally, the caregiving outcomes were the caregiver's perception of the experience. These data can best be obtained through honest self-report, and the investigator must assume that the information provided was accurate. However, subjects may respond according to what they believe is socially desirable or expected when responding to the interviewer. Subjects also

may interpret the questions differently than intended by the researcher. All of the data came from the same source. It is possible that shared method variances may increase the magnitude of relationships between variables.

The data set is from 1999. Considering the age of the data, there may be changes in caregiving circumstances, resources used, deterrents that are evidenced and the resulting outcomes as the 21st century unfolds.

Implications for Practice, Education, and Recommendations for Future Research Practice

There are several areas of application for practice. The professional must assist families in the preparation, planning, or anticipatory strategies for events associated with caregiving. This is especially true since studies indicate that failure to prepare and plan for caregiving is generally the situation (Archbold, Stewart, Greenlick, & Harvath, 1990; Archbold et al., 1995; Pohl et al., 1994). A thorough individualized assessment is essential for all caregiving families to determine the circumstances, resources, and deterrents of the caregiver and potential effects for the caregiver, care recipient, and other family members. In consideration of the human ecology model, the professional must assess the diverse characteristics, needs, values, goals, and resources of the caregiving family. Cultural sensitivity must be integrated in the family interventions. Assessment of the family structure, external support, coping behaviors, and decision making skills is essential to facilitate adaptation of the caregiving experience. The professional must demonstrate respect, comfort, and counsel. A significant caregiver need is to be appreciated for what they do and how they

are feeling (Levine, 1999), and the professional can be instrumental in fostering the sense of appreciation through his or her communication and by strengthening the support systems that affect the caregiver's feeling of appreciation.

The professional serves to inform and guide during the caregiving experience. Caregivers often report a need for information (Levine, 1999). Caregivers may need assistance to access information and services and are not likely to externally seek this in the midst of providing care. Professionals can encourage opportunities for caregivers to reflect on the deeper meaning of caregiving and to strengthen their spiritual health (McLeod, 1999) which also was found as a significant coping behavior in this study. Promoting the health of the caregiver is important. While support groups and counselors are not frequently used, respite services should be referred by the professional, means to increase usage should be considered, and should be sought by the caregiver when possible. Additionally, the professional will serve as an accessible resource for information to the caregiver, care recipient, and the other family members. The professional may need to work with the family members to adjust to differing roles and family task norms to ease the stress for the caregiver. The professional can develop individualized intervention programs to strengthen positive outcomes, reduce stress, and promote the mental health of the caregiver.

Furthermore, the professional serves as an advocate to facilitate employer and public policy changes. Employer policies that provide benefits to the adult caregiver, permit varied work schedules, and assist with informational resources

are needed. It is less expensive to provide care at home; the annual cost to care for an elderly person with dementia at home is \$18,000, whereas in a long-term care facility it is \$42,000 annually (Plowfield, Raymond, & Blevins, 2000). Even though the expense is much less at home, the cost of caregiving can place a significant burden on many families. The professional should seek to support policy that will provide tax incentives for the caregiver and be alert to impending changes in Medicare and Medicaid funding. With an overall economic downturn in the United States, supportive resources for the growing number of elderly persons and their caregivers are essential to sustain optimal health and wellbeing.

Education

From an educational standpoint, it is important for professionals to teach foundational theories that relate to elder care. Family system theoretical frameworks and a life course perspective will guide therapeutic interventions with the caregiving family of elderly parents. Family studies and nursing professionals must assure conceptual understanding of common issues that families face as they provide elder care. Some of these common issues include: variations and changing family structure and degrees of family cohesiveness; changes in roles and relationships; family decision making processes; the role of extended families; social support; use of resources; and the family's ability to adapt as various needs arise. The professional must be prepared to facilitate the utilization of resources and to minimize the deterrents to achieve optimal outcomes from the caregiving experience. As demographic changes continue

toward an increased number of elderly persons and thus an increased need for elder caregivers, effects on family health and relationships as a result of caregiving will be increasingly important when curricular decisions are made. *Research*

This study used a quantitative approach to examine the predictors of the caregiving experience of adult children who cared for their elderly parents. It explored caregiving circumstances and predictors that affected the caregiving outcome. One could assume that feelings were imbedded in several of the responses when variables such as support, coping behaviors, family conflict, self-esteem, and appreciation of life are considered. Furthermore, this study did not explore the motivations for providing care. A qualitative approach would assist in further examining the emotional response and feelings as outcomes of the caregiving experience. Qualitative research should aim to reveal the caregiver's perception of the caregiving experience.

Since the initial work of Brody (1966), elder care studies, in general, have focused on burden, stress, and the negative results of caregiving. While some recent work has begun to shift toward the positive results of caregiving, continued research is needed for the professional to have an evidence base for interventions to enhance strengths, resources, and outcomes.

This study addressed whether the caregiving outcomes changed over time. Based on this study, one cannot assume that there was a change in the intensity of the caregiver role over time. Caregiving usually changes in role and intensity over time and as the status of the care recipient changes (AOA, 2004).

This could best be measured by a longitudinal study or a comparative analysis of multiple waves of the NLTCS or other datasets.

While this study included various caregiving issues and did include responses related to decrease in social activities, time with family, and time for vacation or hobbies, it did not directly address the caregiver's potential for loneliness. The adult child as primary caregiver may be at risk for social isolation. As the caregiving time increases, the caregiver is separated from others who provide social and emotional interaction. Difficult behaviors of the adult parent may further contribute to social isolation. This area can be further researched to provide support for assessing the caregiver to meet the needs for social support and exchange.

While this study examined whether the amount of care provided predicted caregiving outcomes, it did not specifically identify whether certain types of care had a greater effect. Daughters tend to be involved in all types of care, whereas sons provide more IADLs. Further research could identify whether the specific type of care provided predicted caregiving outcomes.

Elder abuse has emerged as a major social problem and a significant aspect of family violence. One wonders about the negative outcomes of caregiving and whether there is a relationship to elder abuse. With the escalating need and incidence of caregiving, the stage may be set for elder abuse. Because adult children are increasingly being called upon to care for elderly parents, professionals should assess the skills and resources of the caregiver to facilitate enhancement of these skills and to decrease the stress that

may result in elder abuse. A retrospective study may be indicated to determine the predictors of elder abuse by adult children.

This study focused on the caregiver as the unit of analysis, and this approach is typical of most elder care studies. Examining the primary caregiver tends to obscure the relationships, involvement of and consequences to other family members and the family as a unit. Neither caregiver outcomes or the caregiver and care recipient relationship and experience should be considered in isolation. The relationships within any one subsystem affect and are affected by the interactions within the other family subsystems as the entire extended family system is considered. Effects on others in the caregiver's family, such as spouse, children, and siblings, are relatively unknown. Only one study was found that reported negative effects on both mental and physical health of the caregiver's spouse and children (Lieberman & Fischer, 1995). A strategy to address the care needs of the aging parent is for the parent or child to move in with the other (Tennstedt, 1999; Ziemba, 2002). This has implications for other family members in the household and requires adjustment. Yet, as in this study, helpful behaviors of the care recipient may offset demands within the family. Family health may become imbalanced when demands are placed on the caregiver decreasing the energy expenditure, emotional involvement, and time with other family members. Even with a primary caregiver, the elder care experience is by necessity a shared family event as responsibilities within the family unit shift. The degree of support from immediate family members to engage in elder care may affect the caregiving experience. Family cohesion and

marital satisfaction also may have an effect on elder care (Martire, Stephens, and Franks, 1997). Disrupted relationships with other family members including conflict with the caregiver's own children has been reported (Franks & Stephens, 1996). Adult children report feeling the loss of the parents' previous support, relatively little is known about the role or reactions of the caregiver's spouse, and it is unclear to what degree others in the caregiver's family experience loss (Ziemba, 2002). Therefore, the entire family should be studied, and there is much to be discovered regarding the effect of elder care on the family as a unit. Included in this family unit approach, the perception and reaction of the care recipient should be examined to more fully view the outcomes of caregiving.

Another important research topic would be the examination of differences in family caregiving and outcomes in diverse populations. Very little research is available regarding ethnicity and caregiving. Family roles and expectations are shaped by cultural norms and values with varying degrees of expectations. Some societies clearly designate the family member who should take primary responsibility for the elder care. Yet, assumptions are made that persons with some ethnic backgrounds receive added assistance from large, extended families and that family cohesiveness is positive. This assumption may lead to false assurance among professionals that the needs of intergenerational caregivers are being met. These assumptions and cultural norms in caregiving should be studied. With an increasingly diverse aging population, this research would benefit diverse caregivers, care recipients, professionals, and policy makers.

Health care professionals can examine the physical health of the caregiver especially as caregivers are aging. The primary focus has been the negative psychosocial effects of caregiving. There appears to be less evidence regarding risks for physical health (Schulz, Visintainer, & Williamson, 1990). Schulz and Beach (1999) found a 63% higher death rate in caregivers who reported role strain. The increased energy expenditure, physical strain, and emotional stress may result in harmful effects on the immune system, resulting in decreased resistance to disease. Healthcare professionals need to be prepared for alteration in the caregiver's emotional and physical health that results from the demands of caregiving. Professionals need to recognize that adult children may be responsible for the care of multiple parents at one time or sequentially. As a result, some adult children face cumulative loss and strain (Ziemba, 2002).

Conclusions

Caregiving can be a time of great meaning and potential benefit, and if the professional enhances the caregiving experience to strengthen the positive outcomes, it may contribute to pleasant memories of time well spent with the elder parent. The adult child can internalize caregiving in terms of life tasks and goals and the importance of family caring relationships to grow and gain meaning from the experience. Caregiver and family well-being can be promoted by recognizing the benefits of elder caregiving and strengthening those aspects of care. Anticipating the intergenerational caregiving needs and predictors that will enhance or mediate a positive caregiving experience can benefit the well-being of the elder, the caregiver, families, and society-at-large.

APPENDIX A: 1999 NLTCS Caregiver Survey

.

		Final Versio	n December 20, 2002: Se	ction A - AM	OUN	TS AND KINDS OF HELP	
VERIFY C	ASE						
FR:	Verify that you have	the correct cas	e.				
	CGNAME	Col.	Char 42			Blank	
	CGPHN_AR	Col.	Char 3			Blank	
	CGPHN EX	Col.	Char 4			Blank	
	CGPHN_NM	Col.	Char 7			Blank	
NOT		R. IE PERSON	AL VISIT, HAND CAREGIVER				
			E LETTER. ALLOW ENOUGH				
	E FOR HIMHER TO						
			m the United States Bureau				
			rvey of Long Term Care in				
		-	of health conditions and				
		-	ars of age and over who				
	• •	• •	some additional questions to				
			nce in helping (sample				
		Anton al exherie	ino u nahuñ laanha				
	person).			1		Yes - SKIP to BEGIN CAREGI	VFR
l	May I encole to form	column12		2	\vdash	No - Inconvenient Time. Set C	
ł	May I speak to [care CG_OPEN	Col. 9289	Char 1	ic.		hold pending rescheduling	
	VJ_UPEN	COI. 9209		13		No - Noninterview	
CHECK R	EASON				.		
1	What is the reason y	iou can't cont	uct an interview?	1		No one home	`
^{rn:}	wild is the reason)			2		Temporarily absent]
				3		Refused	
1				4		Unable to locate	Set OUTCOME = 208
				•			and SKIP to
				5		Language problem; no	
				6		Type A Other - specify	Control Card FINISH
				7	<u> </u>	Armed Forces	
				8		Correction Facility	
				9	<u> </u>	Deceased)
	10500050			10	I	Mover	
	AREGIVER	Deter					
5.60	AKH Start Time and	Col. 9290	Char 4	00-23	_	Hours	
1	START_26	UUI. 9290		00-23	⊢	Minutes	
1	CODAVI		Cher 6 !	100-59	\vdash	MMDDYY	
<u> </u>	CGDAY1	Col. 9294	Char 6		┣—	Yes	
1.	Are you paid to help		-	2	⊢	No	
	AKH_1	Col. 9300	Char 1	1	1		
2.	• •		ies for which a person				
	•		you helped [sample person]				
ł	with them in the part	N WUUK.		I			
	Did you -		incide or get erround	Ι.	—	lYes	
1 ^a	inside with a wheel		inside or get around	2	\vdash	No	
1				2	\vdash	Does NOT get around inside a	it oli
<u> </u>	AKH_AD_A		Char 1	<u> </u>	╂	Yes	
b.	Help (sample perso	-	Char 1		\vdash	No	
1	AKH_AD_B	Col. 9302	Char 1	2 3	\vdash	Does NOT eat at all	
 	11-1-1-1	-1	-(h - d)		╋	the second s	
с.	Help (sample perso			11	\vdash	Yes	
	AKH_AD_C	Col. 9303	Char 1	2	\vdash	No Data NOT and add of bad at al	
				3	+	Does NOT get out of bed at al	l
d.			- by getting and putting	11	<u> </u>	Yes	
1	on the clothes [he/s			2	-	No	
J	AKH_AD_D	Col. 9304	Char 1	3		Does NOT get dressed at all	
θ.	Give (sample perso	on] shots or inje	ctions?	1		Yes	

.

		AKH_AD_E Col. 9305 Char 1	
-			3 Does NOT get shots or injections
	ſ.	Give [sample person] medicine, pills, or change [h	
		bandages?	
		AKH_AD_F Col. 9306 Char 1	3 Does NOT take medicine
		If "yes" was answered to any part (a. thru f.) of	
		question above, ask only the relevant parts of	
		question below.	
		On the days that you helped, how many times per	y, on the
		average, did you -	
	а.	Help (sample person) walk around inside or get ar	d 1-99 times a day
		inside with a wheelchair or similar device?	
		AKH_AT_A Col. 9307 Char 2	
	b.	Help (sample person) eat?	1-99times a day
		AKH_AT_B Col. 9309 Char 2	
	C.	Help (sample person) get in or out of bed?	
		AKH_AT_C Col. 9311 Char 2	
	d.		tting 1-99 times a day
		on the clothes [he/she] wears during the day?	
		AKH_AT_D Col. 9313 Char 2	
	θ.		1-99 times a day
		AKH_AT_E Col. 9315 Char 2	
	f.	Give (sample person) medicine, pills, or change [h	er] 1-99 Litimes a day
		bandages?	
		AKH_AT_F Col. 9317 Char 2	
	a .	In the past week, that is since last [day], did you h	1 Yes
		[sample person] bathe by helping [him/her] get int	
		out of the bathtub or shower, or by washing [him/	3 Does not bathe at all SKIP to 5
		in a bathtub or shower or at a sink or basin?	
		AKH_BTH1 Col. 9319 Char 1	
	b.	How many times in the past week did you help [si	ie times a day
		person] bathe?	
		AKH_BTH2 Col. 9320 Char 2	
	C.	Did you actually bathe [sample person]?	1 Yes
		AKH_BTH3 Col. 9322 Char 1	2 No
•		In the past week did you help [sample person] do	r of the
		following? Did you help [sample person] -	_
	а.	Use the toilet by helping [him/her] get on or off the	
		arranging [his/her] clothes, or by cleaning [him/he	2 No
		AKH_TO_A Col. 9323 Char 1	
	b.	•	
		AKH_TO_B Col. 9324 Char 1	2 No
	C.	With a catheter or colostomy bag?	1 Yes
		AKH_TO_C Col. 9325 Char 1	2 No
	d.	Clean up after bladder or bowel accidents?	1 Yes
		AKH_TO_D Col. 9326 Char 1	2 No
		yes" was answered to any part (a. thru d.) of the	
		estion above, ask only the relevant parts of the	
_	que	estion below.	
i .		On the days that you helped, how many times pe	y, on the
		average, did you help (sample person) -	
	а.	Use the toilet by helping [him/her] get on or off the	ilet, by 1-99 Times per day
		arranging [his/her] clothes, or by cleaning [him/he	
		AKH_TT_A Col. 9327 Char 2	
	b.	With a bed pan?	1-99 Times per day
		AKH_TT_B Col. 9329 Char 2	
			1-99 Times per day

1		AKH_TT_C Col. 9331 Char 2	1		
	d.	Clean up after bladder or bowel accidents?	1-99		Times per day
1		AKH_TT D Col. 9333 Char 2			
	H "\	res" was answered to any part (a. thru d.) of			
1	-	stion 6, ask the next question	1		
7.	a.	Does helping [sample person] [with any of the four activities	1		Yes
<u> </u>	-	in question 5] ever bother you?	2		No - SKIP to 8
		AKH_BOT1 Col. 9335 Char 1	D.R		- SKIP to 8
┣—	h	How much does it bother you?	11		
1	υ.	AKH_BOT2 Col. 9336 Char 1			A great deal Somewhat
			2 3		
8.		In the past week did you, BECAUSE OF [sample person]'s			Not too much
o .			1		
		DISABILITY, help (him/her) by -			N
ł	а.		1		Yes
		AKH_ID_A Col. 9337 Char 1	2		No
	b.	Managing [sample person]'s money, like keeping track of bills	1		Yes
		or handling cash?	2		No
		AKH_ID_B Col. 9338 Char 1	1	<u> </u>	N
1	С.	Making telephone calls for [sample person]?	1		Yes
\vdash		AKH_ID_C Col. 9339 Char 1	2		No
1	d.	Doing things around the house, such as straightening up,	1	┣	Yes
1		putting things away, or doing dishes?	2	L	No
		AKH_ID_D Col. 9340 Char 1	+	<u> </u>	
	e .	Doing (sample person)'s laundry?	1		Yes
		AKH_ID_E Col. 9341 Char 1	2	L	No
	f.	Shopping for [sample person]'s groceries?	1		Yes
1		AKH_ID_F Col. 9342 Char 1	2		No
	g.	Doing other small errands for [sample person] outside of the	1		Yes
ł		house?	2	L	No
		AKH_ID_G Col. 9343 Char 1			·····
1	h.	Helping [sample person] get around outside, including helping	1		Yes
		[him/her] walk or use a wheelchair or walker?	2		No
		AKH_ID_H Col. 9344 Char 1	<u> </u>		
	i.	Helping (sample person) get around the neighborhood or city	1		Yes
		by driving (him/her) or helping (him/her) use public	2		No
		transportation?			
		AKH_ID_I Col. 9345 Char 1			
1		yes" was answered to any part (a. thru i.) of the	1		
1		estion above, ask only the relevant parts of the	1		
-	_	estion below.		_	·····
9.		he past week how many times did you help (sample person)	1		
	by ·				1
	а.	Preparing special foods or fixing extra meals?	1-99		Times
		AKH_IT_A Col. 9346 Char 2	-		
1	b.	Managing (sample person)'s money, like keeping track of bills	1-99	L	Times
		or handling cash?	1		
		AKH_IT_B Col. 9348 Char 2	-		· · · · · · · · · · · · · · · · · · ·
1	С.	Making telephone calls for [sample person]?	1-99	L	Times
		AKH_IT_C Col. 9350 Char 2	_		
ł	d.	Doing things around the house, such as straightening up,	1-99		Times
1		putting things away, or doing dishes?			
		AKH_IT_D Col. 9352 Char 2	1		
1	е.	Doing (sample person)'s laundry?	1-99		Times
		AKH_IT_E Col. 9354 Char 2			
	f.	Shopping for [sample person]'s groceries?	1-99		Times
		AKH_IT_F Col. 9356 Char 2	1		
	g.	Doing other small errands for [sample person] outside of the	1-99		Times

		house?	1		
		AKH_IT_G Col. 9358 Char 2			
	h.	Helping (sample person) get around outside, including helping	1-99	ГТ	Times
		[him/her] walk or use a wheelchair or walker?			
		AKH_IT_H Col. 9360 Char 2	1		
	i.	Helping [sample person] get around the neighborhood or city	1-99		Times
		by driving [him/her] or helping [him/her] use public			
		transportation?	1		
		AKH IT I Col. 9362 Char 2			
0.		On average, about how many hours do you spend helping	0-		
0.		[sample person] in a typical week?	168		Hours
		AKH GEN Col. 9364 Char 3		L	
1	8.	Can [sample person] be left at home without anyone else	1		Yes
••	a.	present?	2		No - SKIP to 12a
		AKH 6A Col. 9367 Char 1	D.R	Н	- SKIP to 12a
	b.		10,11	11	
	U.	person] be left at home with no one else present?			
		Record the number of hours, OR	1		
		AKH_6B_H Col. 9368 Char2	0-99		Hours, OR
		Record less than 1 hour, or no limit	10.00	ட	
		AKH_6B_O Col. 9370 Char 1	1		Less than 1 hour
			2	-	No limit
2	8.	Can learnal particul be left along in a mart as long as	1	+ - +	Yes
۷.	а.	Can (sample person) be left alone in a room as long as someone else is at home?	2	\vdash	No-SKIP to 13
			Ĕ		
	-				
	b.	How many hours at a time, on the average, can [sample			
		person) be left alone in a room?			
		Record the number of hours, OR	0-99		Hours, OR
		AKH_6D_H Col. 9372 Char2	0-99		nours, on
		Record less than 1 hour, or no limit			I are then I have
		AKH_6D_0 Col. 9374 Char 1	2	H	Less than 1 hour No limit
		to usual states over interpreted because you have to take ages	11		Yes
13.	a .	Is your sleep ever interrupted because you have to take care	2		No - SKIP 10 14
		of [sample person]?	D,R		- SKIP to 14
		AKH_7A Col. 9375 Char 1	0-99		Times
	Ь.	About how many times in an average week is your sleep	0-99		Times
		interrupted because you have to take care of [sample person]?			
		AKH_7B Col. 9376 Char 2			
14.		Now, I am going to read some statements that describe some			
		problems or inconveniences that many people have when			
		they take care of another person. As I read each statement,			
•		please tell me if that statement is TRUE or FALSE for you when			
		you take care of [sample person]	1		
	8.	I have to take care of [sample person] when I don't feel well			Твие
		enough.	Ľ		
		AKH_8_A Col. 9378 Char 1	2		FALSE
	b.	[Sample person] needs special medical care that I cannot give.	1		
		AKH_8_B Col. 9379 Char 1	2	+	FALSE
	C.	Taking care of [sample person] is hard on me emotionally.	1		
		AKH_8_C Col. 9380 Char 1	2	L	FALSE
_		This time, tell me if the statement is TRUE, FALSE, or does not			
		apply.		_	7
					ITPU (F
	d.	Lifting or moving (sample person) is difficult.	1		TRUE
	d.	Lifting or moving (sample person) is difficult. AKH_8_D Col. 9381 Char 1	1 2 3	E	FALSE Does not apply

_

l	END_AKH	Col. 9382	Char 4	0-59		ННММ
Sub	tract AKH start time f		ime	0000-		
	CUML AKH	Col. 9386	Char 4	9999		Minutes
			Section B - HELP FR			
Set A41S	tert Time			1		
Time				0-23,		
	START 27	Col. 9390	Char 4	0-59		Інним
1.			person], is there someone	1		Yes
	else who would do l		• •	2		No
1	HFO 1	Col. 9394	Char 1	[
2.			e or caregiver support	i		
_	•	• •	e to assist you in providing	1		
	care for [sample pe			1		Yes
	HFO_2	Col. 9395	Char 1	2		No
3.	There are many set	vices available	to help you provide help to			
1			erson]. Please tell me			
	•		blowing service or not.	l		_
a	Have you ever requ	ested informati	ion about how to get	1		Yes
	financial help for (si			2		No - SKIP to 3d
L	HFO_3A	Col. 9396	Char 1	D,R		- SKIP to 4a
b.	Who provided you	with this service	o?	1		Church or synagogue
	HFO_3B_1	Col. 9397	Char 1	2		Community or government agency
				3		Caregiver's employer
				4		Individual or private agency for which caregiver is
						paying
				5		Doctor, pharmacist, social worker, other health
						provider
				6		Other - Specify in HFO_3B_S
_						HFO_38_S Col. Char30 (blank)
с.	How would you rate	e that financial	information service? Did it	11		Did not meet needs at all
	meet your needs fu	illy, only partly,	or not at all?	2		Partly met needs > SKIP to 4a
	HFO_3C	Col. 9398	Char 1	3		Fully met needs
d.	For what reasons h	•		1		Had no need for it
	HFO_3D_1	Col. 9399	Char 2	2 3		Service is not available
				3		Not aware of service
				4		Cost, can't afford
				5	-	Can't find qualified people
				6 7	-	Don't want an outsider coming in/strangers
				ľ	L	Bureaucracy too complex, hassle, couldn't access
1						service It anguage barrier
1				8 9	\vdash	Language barrier Not eligible, make too much money, income too high
1				9	\vdash	No special reason/never thought of it
1				11	\vdash	Other - Special reasonanever mought of it
1				1''		HFO 3D S Col. Char 30 (blank)
		n not he even	ort groups for caregivers?	1	1	
4. a.			Char 1	2	\vdash	No - SKIP to 4d
	HFO_4A	COI. 9401		D,R	\vdash	- SKIP to 5a
b.	Who provided you	with this costs	a?	10,1	╋	Church or synagogue
0.	HFO 4B 1	Col. 9402	Char 1	2		Community or government agency
1	1.0_40_1	001. 3402		3		Caregiver's employer
1				4	F	Individual or private agency for which caregiver is
				Γ	L_	paying
				5		Doctor, pharmacist, social worker, other health
				ľ	L_	provider
1				6		Other - Specify in HFO_48_S below
				ľ	L	HFO_4B_S Col. Char 30 (blank)
				<u> </u>		

5 of 28

С.	How would you rate	that support g	roup? Did it meet your needs	11		Did not meet needs at all	ו
	fully, only partly, or		-	2		Partly met needs	≻ SKIP to 5a
	HFO_4C	Col. 9403	Char 1	3		Fully met needs	J
d.				1		Had no need for it	
	HFO_4D_1	Col. 9404	Char 2	2		Service is not available	
	00_1	000101		3		Not aware of service	
				4		Cost, can't afford	
			•	5		Can't find qualified people	
				6		Don't want an outsider comi	no in/strangers
				7		Bureaucracy too complex, h	• •
				ľ		service	
				8		Language barrier	
				9		Not eligible, make too much	money income too high
				10		No special reason/never the	•••••
				11		Other - Specify in HFO_4D	-
				1.1			Char 30 (blank)
	11	d a ann 1 A: A	annow the take area of	1			
5. a.			emporarily take care of	2		No - SKIP to 5d	
	(sample person) so			D,R	\vdash	- SKIP to 6a	
	HFO_5A	Col. 9406	Char 1	11		Church or synagogue	
b.	Who provided you			2	\vdash	Community or government :	ananny
	HFO_5B_1	Col. 9407	Char 1				Li ght Cy
				3	\vdash	Caregiver's employer Individual or private agency	for which correction in
				Г	L	Deving	IN THUI COUNTY IN
				5	—	Doctor, pharmacist, social v	worker other health
				15	L	provider	TOTION CONTON INCOMENT
				6	<u> </u>	Other - Specify in HFO_58	Shelow
				ľ	L		_S below Char 30 (blank)
		a that to man	nu entre sendos? Did it mest	-11-	r	Did not meet needs at all	J
С.	-		ry care service? Did it meet	2	\vdash	Partly met needs	SKIP to 6a
	your needs fully, o	•••••		3	\vdash	Fully met needs	
	HFO_5C For what reasons	Col. 9408	Char 1	1	╋	Had no need for it	.
d.			Char 2	2	-	Service is not available	
	HFO_5D_1	Col. 9409		5	\vdash	Not aware of service	
				3 4	\vdash	Cost, can't afford	
				5	\vdash	Can't find qualified people	
				6	\vdash	Don't want an outsider con	ning in/strangers
1				7	\vdash	Bureaucracy too complex,	
				ľ	_	service	······································
ł				8		Language berrier	
				9		Not eligible, make too muc	h money, income too high
ł				10	\vdash	No special reason/never th	
				11	1	Other - Specify in HFO_50	
				1.	ـــــ	HFO 5D S Col.	Char 30 (blank)
		miled (enmole	person) in a program outside	1	T	Yes	
6. a.	-					No - SKIP to 6d	
		Col. 9411	Care or senior center? Char 1	2 D,R	-	- SKIP to 7a	
	HFO_6A Who provided you			1	+	Church or synagogue	
b.	HFO 6B 1	Col. 9412		2		Community or government	agency
l		UUI. 3412		3		Caregiver's employer	
[4		Individual or private agenc	v for which careciver is
1				ľ	L	paying	,
1				5	Г	Doctor, pharmacist, social	worker, other health
1				ľ	L	provider	
				6		Other - Specify in HFO_68	L S helow
1				ľ	L	HFO_6B_S Col.	Char 30 (blank)
		A. Ala A. A. J. M. D.	au Comfeenier enter? Did H			Did not meet needs at all	
C.	HOW WOULD YOU IS	ille that Aduit D	ay Care/senior center? Did it	1			Ļ

	meet your needs fu	lly, only partly, or not at all?	2		Partly met needs	SKIP to 7a
	HFO_6C	Col. 9413 Char 1	3		Fully met needs	J
d.	For what reasons h	ave you never done this?	1		Had no need for it	
	HFO 6D 1	Col. 9414 Char 2	2		Service is not available	
			3		Not aware of service	
			4		Cost, can't afford	
			5		Can't find qualified people	
			6		Don't want an outsider comit	
			7		Bureaucracy too complex, h	• •
			ľ			assie, couldn't access
					service	
			8	⊢	Language barrier	
			9		Not eligible, make too much	•
			10		No special reason/never tho	•
			11		Other - Specify in HFO_6D_	
					the second s	Char 30 (blank)
7. a .	Have you ever had	a service come help with personal care			Yes	
	or nursing care at [sample person)'s home?	2		No - SKIP to 7d	
	HFO_7A	Col. 9416 Char 1	D,R		- SKIP to 8a	
b.	Who provided you	with this service?	1	L	Church or synagogue	
	HFO_78_1	Col. 9417 Char 1	2		Community or government a	igency
			3		Caregiver's employer	
			4		Individual or private agency	for which caregiver is
					paying	-
			5		Doctor, pharmacist, social w	orker, other health
					provider	2
			6		Other - Specify in HFO_7B_	S below
			-	L		Char 30 (blank)
C.	How would you rate	e that personal, or nursing care service	? 1	T	Did not meet needs at all	<u> </u>
		eds fully, only partly, or not at all?	2		Partly met needs	≻ SKIP to 8a
	HFO 7C	Col. 9418 Char 1	3		Fully met needs]
d.		ave you never done this?		+	Had no need for it	
υ.	HFO_7D_1	Col. 9419 Char 2	2		Service is not available	
	1110_10_1	OU. PHIS ONLI L	3		Not aware of service	
			4		Cost, can't afford	
			5		Can't find qualified people	
			6		Don't want an outsider comi	ing in/strangers
			7		Bureaucracy too complex, h	
			ľ		service	
				—		
			8	-	Language barrier	money income tes hish
			9	\vdash	Not eligible, make too much	•••
			10	-	No special reason/never the	-
			11	L	Other - Specify in HFO_7D	—
				-		Char 30 (blank)
8. a.		a service come help you with housew			Yes	
	at (sample person)		2		No - SKIP to 8d	
L	HFO_8A	Col. 9421 Char 1	D,R	+-	- SKIP to 9a	
b.	Who provided you		11	F	Church or synagogue	
	HFO_8B_1	Col. 9422 Char 1	2		Community or government	agency
			3	L	Caregiver's employer	
			4	L	Individual or private agency	for which caregiver is
			1	_	paying	
			5		Doctor, pharmacist, social v	worker, other health
					provider	
			6	Γ	Other - Specify in HFO_88	_S below
1			-	-	HFO_8B_S Col.	Char 30 (blank)
с.	How would you ra	te that housework? Did it meet your ne	eds 1	Т	Did not meet needs at all	<u>م من من</u>
<u>۳</u>	fully, only partly, o	•	2		Partly met needs	SKIP to 9a
I .		· ····· and tarr ·	1-			1

	HFO 8C	Col. 9423	Char 1	3		Fully met needs	
d.				1		Had no need for it	
•	HFO_8D_1	Col. 9424	Char 2	2		Service is not available	
				3		Not aware of service	
				4		Cost, can't afford	
				5		Can't find qualified people	
				6		Don't want an outsider comin	g in/strangers
				7	_	Bureaucracy too complex, ha	
	•			l l		service	
				8		Language barrier	
				9		Not eligible, make too much i	money, income too high
				10		No special reason/never thou	
				11		Other - Specify in HFO_8D_5	S below
						HFO_8D_S Col. C	har 30 (blank)
9. a.	Have you ever had	d an outside se	vice deliver meals to	1		Yes	
U . U .	[sample person]'s			2		No - SKIP to 9d	
	HFO_9A	Col. 9426	Char 1	D,R		- SKIP to 10a	
b.				1		Church or synagogue	
	HFO_9B_1	Col. 9427	Char 1	2		Community or government a	gency
				3		Caregiver's employer	
				4		Individual or private agency f	or which caregiver is
						paying	
				5		Doctor, pharmacist, social w	orker, other health
				1		provider	
				6		Other - Specify in HFO_9B_	S below
						HFO_9B_S Col. C	Xhar 30 (blank)
С.	How would you ra	te that meal se	rvice? Did it meet your needs	1		Did not meet needs at all]
	fully, only partly, o			2		Partly met needs	SKIP to 10a
1	HFO_9C	Col. 9428	Char 1	3		Fully met needs	J
d.	For what reasons	have you neve	r done this?	1		Had no need for it	
	HFO_9D_1	Col. 9429	Char 2	2		Service is not available	
				3		Not aware of service	
				4		Cost, can't afford	
1				5		Can't find qualified people	
				6		Don't want an outsider comi	
1				7		Bureaucracy too complex, h	assie, couldn't access
ļ						service	
				8		Language barrier	
				9	L	Not eligible, make too much	
1				10		No special reason/never tho	
				11		Other - Specify in HFO_9D_	
							Char 30 (blank)
10. a.	-		ervice provide transportation	1	-		
	for (sample perso	-		2		No - SKIP to 10d	
	HFO_10A	Col. 9431		D,R		- SKIP to 11a	
b.	• •			1	\vdash	Church or synagogue	
1	HFO_10B1	Col. 9432	Char 1	2		Community or government a	afici v à
1				3	\vdash	Caregiver's employer	for which corochies in
				4	L	Individual or private agency	IN WHICH CAREGINAL IS
1					_	paying	weber other basts
1				5		Doctor, pharmacist, social v	vorker, other nearth
1				-	-	provider	20 halaw
1				6	L	Other - Specify in HFO_10E	
						and the second division of the second divisio	Char 30 (blank)
C.	-		ortation service? Did it meet	1		Did not meet needs at all	
	your needs fully,			2		Partly met needs	SKIP to 11a
1	HFO_10C	Col. 9433	Char 1	3		Fully met needs	J

.

l d.	For what reasons have you never done this?	h	1	Had no need for it
	HFO 10D1 Col. 9434 Char 2	2		Service is not available
		3		Not aware of service
		4		Cost, can't afford
		5	\vdash	Can't find gualified people
		6		Don't want an outsider coming in/strangers
		7	\vdash	Bureaucracy too complex, hassle, couldn't access
		ľ	L	service
1			_	
		8 9	-	Language barrier
		1-	-	Not eligible, make too much money, income too high
		10	F	No special reason/never thought of it
		11		Other - Specify IN HFO_10D2 BELOW
		_ 	1	HFO_10D2 Col. Char 30 (blank)
11. a.	Have you ever had modifications made in	1	⊢	Yes No - SKIP to 11d
	[SAMPNAME]'s house to make things easier for [him/her]?	2	⊢	
<u> </u>	HFO_11A Col. 9436 Char 1	D,R	┢	- SKIP to 12a
D.	Who provided you with this service?	1	\vdash	Church or synagogue
	HFO_11B1 Col. 9437 Char 1	2	-	Community or government agency
		3	-	Caregiver's employer
		4		Individual or private agency for which caregiver is
				paying
		5		Doctor, pharmacist, social worker, other health
		1		provider
		6		Other - Specify in HFO_11B2 below
		_		HFO_11B2 Col. Char 30 (blank)
с.	How would you rate that home modification? Did it meet your	1		Did not meet needs at all
	needs fully, only partly, or not at all?	2		Partly met needs > SKIP to 12a
	HFO_11C Col. 9438 Char 1	3		Fully met needs
d.	For what reasons have you never done this?	1		Had no need for it
	HFO_11D1 Col. 9439 Char 2	2		Service is not available
		3		Not aware of service
		4		Cost, can't afford
		5		Can't find qualified people
		6		Don't want an outsider corning in/strangers
		7		Bureaucracy too complex, hassle, couldn' t access
				service
		8		Language barrier
		9		Not eligible, make too much money, income too high
		10		No special reason/never thought of it
		11		Other - Specify in HFO_11D2 below
		1		HFO_11D2 Col. Char 30 (blank)
12. a.	Have you ever obtained assistive devices, such as	1	Г	Yes
	wheelchairs, waikers, etc., for [sample person]?	2		No - SKIP to 12d
	HFO_12A Col. 9441 Char 1	D,R		- SKIP to 13
b.	Who provided you with this service?	1	1	Church or synagogue
	HFO_12B1 Col. 9442 Char 1	2		Community or government agency
	_ *	3		Caregiver's employer
		4		Individual or private agency for which caregiver is
			-	paying
		5		Doctor, pharmacist, social worker, other health
		ľ	L	provider
		6		Other - Specify in HFO_12B2 below
		ľ	L	HFO_12B2 Col. Char 30 (blank)
c.	How would you rate that wheelchair, walker, or other	-11	Т	Did not meet needs at all
1 .	assistive device? Did it meet your needs fully, only partly,	2	-	Partly met needs > SKIP to 13
	or not at all?	3	\vdash	Fully met needs
	HFO_12C Col. 9443 Char 1	ľ	L	

d.	For what reasons have you never done this?	11	Had no need for it
	HFO_12D1 Col. 9444 Char 2	2	Service is not available
		3	Not aware of service
		4	Cost, can't afford
		5	Can't find gualified people
		6	Don't want an outsider coming in/strangers
		7	Bureaucracy too complex, hassle, couldn't access
		ľ	service
		8	Language barrier
		9	Not eligible, make too much money, income too high
		10	No special reason/never thought of it
		111	Other - Specify in HFO_12D2 below
			HFO 12D2 Col. Char 30 (blank)
13. INT	ERVIEWER: RECORD UP TO 2 RESPONSES. ENTER "N" FOR		
NO	THING		
8.	Sometimes, people who provide care to an older person could	1	Extra money; more money to help pay for things;
	use some assistance. Please think about your situation, and	1	financial support
	tell me any kinds of help, information, or support that you would	2	Free time; time for myself, a break
	use as a caregiver. Response number 1:	з	A central place to go/to call to find out what kind of
	HFO_13_1 Col. 9446 Char 2		help is available/where to get it
		4	Someone to talk to/counseling/support group
		5	Help with housekeeping
		6	Help with shopping
		7	Help with transportation, getting to places
		8	Help with making meals
		9	Help with bathing, dressing, grooming, toileting,
			feeding, other personal care
		10	Help with medicines (administering, side effects,
			etc.)
		11	Information about [sample person]'s condition
		12	Information about developments or changes in laws
			which might affect your situation
		13	Help in understanding how to select nursing home/
			group home/other facility
		14	Help in understanding how to pay for nursing
		1	homes, adult day care, or other services
		1	(financing)
		15	Information about services for persons with
		16	Alzheimer's/memory problems Help dealing with bureaucracy to get services
		17	Tax break, stipend, government subsidy
		18	Other - Specify in HFO_13_3 below
		1	HFO_13_3 Col. 9448 Char 30
b.	Response number 2:	1	Extra money; more money to help pay for things;
l	HFO_13_4 Col. 9478 Char 2	ľ	financial support
		2	Free time; time for myself, a break
}		3	A central place to go/to call to find out what kind of
		ſ	help is available/where to get it
1		4	Someone to talk to/counseling/support group
l		5	Help with housekeeping
1		6	Help with shopping
		7	Help with transportation, getting to places
[8	Help with making meals
1		9	Help with bathing, dressing, grooming, toileting,
			feeding, other personal care
		10	Help with medicines (administering, side effects,
1			etc.)

10 of 28

		111	1	Information about [sample person]'s condition
		12	-	Information about developments or changes in laws
		12		· · ·
				which might affect your situation
		13		Help in understanding how to select nursing home/
			<u> </u>	group home/other facility
		14	L	Help in understanding how to pay for nursing
		1		homes, adult day care, or other services
		1		(financing)
		15		Information about services for persons with
		1		Alzheimer's/memory problems
		16		Help dealing with bureaucracy to get services
		17		Tax break, stipend, government subsidy
		18		Other - Specify in HFO_13_5 below
			L	HFO_13_5 Col. 9480 Char 30
END HE	n	<u> </u>		
	End Time	0-23		
ઝમ		0-23		ННММ
0.4	END_HFO Col. 9510 Char 4	0000-	_	
	tract HFO start time from HFO end time CUML HFO Col. 9514 Char 4	9999		Minutes
	CUML_HFO Col. 9514 Char 4 Section C - CAREGIVER			
		3 EAP	-CLU	
Set Start	·····•	0.50		lanne
	START_28 Col. 9518 Char 4	0-59		ННММ
1.	Now I am going to read some statements that describe some			
	other problems people sometimes have when taking care of			
	another person. As I read each statement, please tell me if that			
	statement is TRUE or FALSE for you, when you take care of	1		
н н.	(sample person).	1	_	
a.	I don't have as much privacy when I take care of	1		TRUE
	(sample person).	2		FALSE
	CGE_1_A Col. 9522 Char 1	1		
b.	Taking care of [sample person] limits my social life or free time.	1	T	TRUE
	CGE 1 B Col. 9523 Char 1	2		FALSE
С.	I have to give [sample person] almost constant attention.	1	+	TRUE
~	CGE_1_C Col. 9524 Char 1	2		FALSE
d.		1	+	TRUE
U.		2		FALSE
	WORSE.	۴		JLAC
	CGE_1_D Col. 9525 Char 1	 	-	
0.	Care costs more than I can really afford.	1	-	TRUE
	CGE_1_E Col. 9526 Char 1	2	1	FALSE
2.	On a scale from 1 to 5, where 1 is not a strain at all and 5 is	1		
	very much of a strain, how much of a physical strain would		_	1
	you say that caring for [sample person] is for you?	11		not a strain at all
1	CGE_2 Col. 9527 Char 1	2		
ł		3		
		4]
		5		Very much of a strain
3.	Using the scale from 1 to 5, where 1 is not at all stressful and	1		
	5 is very stressful, how emotionally stressful would you say			
1	that caring for [sample person] is for you?	1		Not at all stressful
	CGE 3 Col. 9528 Char 1	2		
1		3		1
1		4		1
1		5		Very stressful
4.	Licing the same cools from 1 to 5 where 1 is no hardship at	<u> </u>		Troil angean
1.	Using the same scale from 1 to 5 where 1 is no hardship at			
	all and 5 is a great deal of hardship, how much of a financial	1.		The hardship at all
1	hardship would you say that caring for [sample person] is?	1	-	No hardship at all
1	CGE_4 Col. 9529 Char 1	2		J

11 of 28

			I		
			3		
			4		
			5		Great deal of hardship
5.		Here are some statements about your energy level and the			
		time it takes to do the things you have to do. How much does			
1		• •	Í		
		each statement describe you?			h
	a.	You are exhausted when you go to bed at night.	1		Not at all
1		CGE_5_A Col. 9530 Char 1	2		Somewhat
			3		Quite a lot
			4		Completely
	-	Veu hous more thisse to de thes you can bondle	1	_	Not at all
	Ь.	You have more things to do then you can handle.	•		
		CGE_5_B Col. 9531 Char 1	2		Somewhat
1			3		Quite a lot
			4		Completely
	C.	You don't have time just for yourself.	1		Not at all
		CGE_5_C Col. 9532 Char 1	2		Somewhat
1			3	H	Quite a lot
1				-	
			4	L	Completely
	d.	You work hard as a caregiver but never seem to make any	1		Not at all
1		progress.	2		Somewhat
		CGE_5_D Col. 9533 Char 1	3		Quite a lot
			4		Completely
		On a such that the the share the set much stress at all and	 		
6.		On a scale from 1 to 10 where 1 is not much stress at all, and	I .		1
1		10 is a great deal of stress, how much stress does it cause	1		Not much stress at all
		you to do all of the things you do to help [sample person]?	2	1	
		CGE_6 Col. 9534 Char 2	3		
			4		1
			5	⊢	
			6	_	
1			7		
			8		
			9		
			10	-	Great deal of stress
7.		Descriting hale to formale normani has	11	+	Disagree a lot
1'		Providing help to [sample person] has -	•	┣	
	a.		2	⊢	Disagree a little
		CGE_7_A Col. 9536 Char 1	3		Neither agree or disagree
			4		Agree a little
			5		Agree a lot
-	b.	Enabled me to appreciate life more.	1	1-	Disagree a lot
	U.			-	Disagree a little
1		CGE_7_B Col. 9537 Char 1	2	-	-
			3		Neither agree or disagree
			4		Agree a little
			5		Agree a lot
8.		In the past week, on how many days did you personally have			
1		to deal with the following behavior of [sample person]? How	1		
		• • • • •	1		
		many days did [he/she]:	I.		
	а.	Keep you up at night	1		No days
		CGE_8_A Col. 9538 Char 1	2		1-2 days
			3		3-4 days
			4		5 or more days
H-		Repeat questions/stories	11	+-	No days
	b.	• •	1	1	
		CGE_8_B Col. 9539 Char 1	2	-	1-2 days
I			3		_3-4 days
			4		5 or more days
	C.	Try to dress the wrong way	11	T	No days
		CGE_8_C Col. 9540 Char 1	2		1-2 days
			3		_3-4 days

	4	1 1	5 or more days
Have a bowel or bladder accident	1		No days
	2		1-2 days
			3-4 days
			5 or more days
Hide belongings and forget about them			No days
	1 ·		1-2 days
			3-4 days
	1		5 or more days
Crucoseih			No days
• •			1-2 days
CGE_8_F Col. 9343 Chail			3-4 days
			5 or more days
		++	
	1		No days
CGE_8_G Col. 9544 Char 1			1-2 days
			3-4 days
		_	5 or more days
• • • • • • • •			No days
•••			1-2 days
CGE_8B_H Col. 9545 Char 1			3-4 days
			5 or more days
Become restless or agitated		_	No days
CGE_8B_1 Col. 9546 Char 1			1-2 days
			3-4 days
			5 or more days
Become irritable or angry	- <u>1</u> 1		No days
CGE_8B_J Col. 9547 Char 1	2		1-2 days
	3		3-4 days
	4		5 or more days
Swear or use foul language	1		No days
	2		1-2 days
			3-4 days
			5 or more days
Become suspicious, or believe someone is going to harm			No days
• • •			1-2 days
· -			3-4 days
			5 or more days
			No days
			1-2 days
CGE_66_M Col. 9350 Chain		\mathbf{H}	3-4 days
			5 or more days
		-	No days
CGE_88_N Col. 9551 Char 1			1-2 days
			3-4 days
	4	_	5 or more days
			No days
Destroy or damage property	1		
Destroy or damage property CGE_88_O Col. 9552 Char 1	2	F	1-2 days
	2 3		1-2 days 3-4 days
	2 3 4		1-2 days 3-4 days 5 or more days
CGE_8B_0 Col. 9552 Char 1 RELATIONSHIP	2 3 4 1		1-2 days 3-4 days
CGE_8B_0 Col. 9552 Char 1 RELATIONSHIP	2 3 4 1 2		1-2 days 3-4 days 5 or more days
CGE_8B_O Col. 9552 Char 1	2 3 4 1		1-2 days 3-4 days 5 or more days Spouse
CGE_8B_O Col. 9552 Char 1 RELATIONSHIP Refer to CGREL in Caregiver Selection section of Community Int.]	2 3 4 1 2 3 4		1-2 days 3-4 days 5 or more days Spouse (not used here)
CGE_8B_O Col. 9552 Char 1 RELATIONSHIP Refer to CGREL in Caregiver Selection section of Community Int.]	2 3 4 1 2 3 4		1-2 days 3-4 days 5 or more days Spouse (not used here) Son / Daughter
CGE_8B_O Col. 9552 Char 1 RELATIONSHIP Refer to CGREL in Caregiver Selection section of Community Int.]	2 3 4 1 2 3 4		1-2 days 3-4 days 5 or more days Spouse (not used here) Son / Daughter Son-in-law / Daughter-in-law
CGE_8B_O Col. 9552 Char 1 RELATIONSHIP Refer to CGREL in Caregiver Selection section of Community Int.]	2 3 4 1 2 3		1-2 days 3-4 days 5 or more days Spouse (not used here) Son / Daughter Son-in-law / Daughter-in-law Parent
	Hide belongings and forget about them CGE_8_E Col. 9542 Char 1 Cry easily CGE_8_F Col. 9543 Char 1 Act depressed or downhearted CGE_8_G Col. 9544 Char 1 In the past week, how many days did [sample person]: Cling to you or follow you around CGE_8B_H Col. 9545 Char 1 Become restless or agitated CGE_8B_1 Col. 9546 Char 1 Become irritable or angry	Have a bowel or bladder accident 1 CGE_8_D Col. 9541 Char 1 3 4 Hide belongings and lorget about them 1 CGE_8_E Col. 9542 Char 1 2 3 4 4 Cry easity 1 CGE_8_F Col. 9543 Char 1 2 Char 1 3 4 Act depressed or downhearted 1 CGE_8_G Col. 9544 Char 1 3 4 4 Act depressed or downhearted 1 CGE_8_G Col. 9545 Char 1 3 4 In the past week, how many days did [sample person]: 1 Cing to you or follow you around 2 CGE_8B_H Col. 9545 Char 1 4 Become irritable or angry 1 CGE_8B_I Col. 9546 Char 1 3 4 Swear or use foul language 1 CGE_8B_K Col. 9548 Char 1 3 3 Become suspicious, or believe someone is going to harm	Have a bowel or bladder accident 1 1 1 CGE_8_D Col. 9541 Char 1 2 Hide belongings and forget about them 1 2 CGE_8_E Col. 9542 Char 1 2 Cry easily 1 2 3 CGE_8_F Col. 9543 Char 1 2 Cry easily 1 2 3 CGE_8_F Col. 9543 Char 1 2 CGE_8_G Col. 9544 Char 1 3 Act depressed or downhearted 1 2 3 CGE_8_B_G Col. 9544 Char 1 3 In the past week, how many days did [sample person]: 1 1 CGE_8B_H Col. 9545 Char 1 3 Become restiless or agitated Col. 9546 Char 1 3 CGE_8B_J Col. 9546 Char 1 3 4 Become irritable or angry 1 2 3 4 CGE_8B_J Col. 9548 Char 1 3 4 Become suspicious, or believe someone is going to harm 1 2 3 <

.

			9		Grandchild
			10		Other relative
			11		Employee SKIP to 14
			12		Other nonrelative
			13		Ex-Spouse
9.		Do you feel that other relatives are doing their fair share of	1	T	Yes
з.		caregiving for [sample person]?	2		No
		CGE_9 Col. 9553 Char 1	N		Don't have other relative/does not applySKIP to 11
10.	_	To what extent has there been any family conflict over care-	1		Not at all
10.		giving regarding (sample person)? Would you say there's been	2		Some conflict
		a lot of conflict, some conflict, or none at all?	3		A lot of conflict
		•	ľ	L	
			+		
11.		Family members may differ among themselves in the way they			
		deal with a relative who is ill. Thinking of all your relatives, how	1		
		much disagreement have you had with anyone in your family	1		
		because of the following issues? How much disagreement			
		have you had with anyone in your family because they:	1.		No disagreement
	8.		1		Just a little disagreement
		CGE_11_A Col. 9555 Char 1	2	-	4 ° °
			3		Some disagreement
			4		Quite a bit of disagreement
	b.	Don't do their share in caring for [sample person]?	1	-	No disagreement
		CGE_11_B Col. 9556 Char 1	2	-	Just a little disagreement
			3		Some disagreement
			4	-	Quite a bit of disagreement
	C.	Don't show enough respect for [sample person]?	1		No disagreement
		CGE_11_C Col. 9557 Char 1	2		Just a little disagreement
		• · · · · · · · · · · · · · · · · · · ·	3		Some disagreement
			4		Quite a bit of disagreement
	d.	Lack patience with [sample person]?	1		No disagreement
		CGE_11_D Col. 9558 Char 1	2		Just a little disagreement
I I			3		Some disagreement
			4		Quite a bit of disagreement
12.		I've just asked you how your relatives act toward [sample			
		person]. Now I'd like to ask how they act toward you, the			
		caregiver. Again, thinking of all your relatives, how much			
		disagreement have you had with anyone in your family			
		because of the following issues? How much disagreement			
		have you had with any one in your family because they:	1		
	а.	Don't visit or telephone you enough:	1		No disagreement
1	-	CGE_12_A Col. 9559 Char 1	2		Just a little disagreement
			3		Some disagreement
1			4	Г	Quite a bit of disagreement
-	b.	Don't give you enough help?	1	T	No disagreement
1		CGE_12_B Col. 9560 Char 1	2		Just a little disagreement
			3	-	Some disagreement
			4		Quite a bit of disagreement
-		Don't show enough appreciation of your work as a caregiver?	1	+-	No disagreement
	C.		2	F	Just a little disagreement
		CGE_12_C Col. 9561 Char 1	3	H	Some disagreement
			4		Quite a bit of disagreement
			1	+	No disagreement
	d.	Give you unwanted advice?		\vdash	
		CGE_12_D Col. 9562 Char 1	2	\vdash	Just a little disagreement
			3	-	Some disagreement
			4	1	Quite a bit of disagreement
13.		Let's turn now to the help and support you get from your			
		friends and relatives. Thinking about your friends and family,			

1		other than [sample person], please indicate the extent to	1		
		which you agree or disagree with the following statements:			
	a .		1		Strongly disagree
		through.	2		Disagree
		CGE_13_A Col. 9563 Char 1	3		Agree
			4	├ ─	Strongly agree
	b.	The people close to you let you know that they care about you.	1		Strongly disagree
		CGE_13_B Col. 9564 Char 1	2	-	Disagree
			3		Agree
			4		Strongty agree
	C.	You have a friend or relative in whose opinion you have	1		Strongly disagree
	•.	confidence.	2		Disagree
		CGE_13_C Col. 9565 Char 1	3		Agree
			4		Strongly agree
	d.	You have someone whom you feel you can trust.	1		Strongly disagree
	••	CGE_13_D Col. 9566 Char 1	2		Disagree
			3		Agree
			4		Strongly agree
	e.	You have people around you who help you to keep your	1		Strongly disagree
		spirits up.	2		Disagree
		CGE_13_E Col. 9567 Char 1	3		Agree
			4		Strongly agree
	t.	There are people in your life who make you feel good about	1		Strongly disagree
		yourself.	2		Disagree
		CGE_13_F Col. 9568 Char 1	3		Agree
			4		Strongly agree
	g.	You have at least one friend or relative you can really confide	1		Strongly disagree
	9.	in.	2		Disagree
		CGE 13 G Col. 9569 Char 1	3		Agree
			4		Strongly agree
	h.	You have at least one friend or relative you want to be with	1		Strongly disagree
		when you are feeling down or discouraged.	2		Disagree
		CGE_13_H Col. 9570 Char 1	3		Agree
			4	\vdash	Strongly agree
14.		Here are some things that some people do when they are	-	· · · ·	
		under stress from caregiving. How often do you do them?			
[a .	Spend time alone.	1		Never
		CGE_14_A Col. 9571 Char 1	2		Once in a while
			3		Fairty often
			4		Very often
	b.	Eat	1		Never
		CGE_14_B Col. 9572 Char 1	2		Once in a while
			3		Fairly often
			4		Very often
	C.	Take some medications to calm yourself	1		Never
		CGE_14_C Col. 9573 Char 1	2		Once in a while
			3		Fairty often
			4		Very often
	d.	Drink some alcohol	1		Never
		CGE_14_D Col. 9574 Char 1	2		Once in a while
			3		Fairly often
			4		Very often
	8.	Prayer/Meditation	1		Never
		spirits up.	2		Once in a while
		CGE_14_E Col. 9575 Char 1	3		Fairty often
			4		Very often
	1.	Talk with friends or relatives	1		Never

-

		CGE_14_F	Col. 9576	Char 1	2		Once in a while
1					3		Fairty often
· ·					4		Very often
	g.	Spend time on exerc	ise or hobbies		1		Never
	-	CGE_14 G	Col. 9577	Char 1	2		Once in a while
			Col. 95/7	Chart			
					3		Fairty often
					4		Very often
	h.	Smoke			1		Never
		CGE_14_H	Col. 9578	Char 1	2		Once in a while
					3		Fairly often
					4		Very often
	i.	Watch TV			1		Never
		CGE_14_I	Col. 9579	Char 1	2		Once in a while
		002_14_1	00.0010		3		Fairty often
							•
		0			4		Very often
	j.	Read			1		Never
		CGE_14_J	Col. 9580	Char 1	2		Once in a while
					3		Fairty often
					4		Very often
	k.	Get help from a cour	selor or other	professional	1		Never
		CGE_14_K	Col. 9581	Char 1	2		Once in a while
1				•·· ·	3	-	Fairty often
					4		Very often
├ ──	1.	Other Code CCE	A L and avel	in in CCE 14 Shalaw	1		Never
	I.	-		ain in CGE_14_S below.			
		CGE_14_L	Col. 9582	Char 1	2		Once in a while
		CGE_14_S	Col. 9583	Char 30	3		Fairly often
					4		Very often
15.		There may be or ma	y have been o	ther ways in which providing			
1.1		care to [sample pers	on] affects you	ir life. As a caregiver, have			
				al alor the a car egiter, that e			
		you had:					
	a.	•	amily member	-	1		Yes
	a.	Less time for other fa	-	s than before?	1 2		
		Less time for other fa CGE_15_A	Col. 9613	s than before? Char 1	2		No
-		Less time for other fa CGE_15_A To give up vacations	Col. 9613 , hobbies, or y	s than before? Char 1 /our own activities?	2 1		No Yes
	b.	Less time for other fa CGE_15_A To give up vacations CGE_15_B	Col. 9613	s than before? Char 1	2		No
END	b. CGE	Less time for other fa CGE_15_A To give up vacations CGE_15_B	Col. 9613 , hobbies, or y	s than before? Char 1 /our own activities?	2 1 2		No Yes
END	b. CGE	Less time for other fa CGE_15_A To give up vacations CGE_15_B End Time	Col. 9613 , hobbies, or y Col. 9614	s than before? Char 1 rour own activities? Char 1	2 1 2 0-23		No Yes No
END	b. CGE Set I	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE	Col. 9613 , hobbies, or y Col. 9614 Col. 9615	s than before? Char 1 rour own activities? Char 1 Char 4	2 1 2 0-23 0-59		No Yes
END	b. CGE Set I	Less time for other fa CGE_15_A To give up vacations CGE_15_B End Time	Col. 9613 c, hobbies, or y Col. 9614 Col. 9615 rom CGE end	s than before? Char 1 rour own activities? Char 1 Char 4	2 1 2 0-23 0-59 0000-		No Yes No HHMM
END	b. CGE Set I	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE	Col. 9613 , hobbies, or y Col. 9614 Col. 9615	s than before? Char 1 rour own activities? Char 1 Char 4 time Char 4	2 1 2 0-23 0-59 0000- 9999		No Yes No HHMM Minutes
END	b. CGE Set I	Less time for other fa CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fit	Col. 9613 c, hobbies, or y Col. 9614 Col. 9615 rom CGE end	s than before? Char 1 rour own activities? Char 1 Char 4	2 1 2 0-23 0-59 0000- 9999	SIT	No Yes No HHMM Minutes
	b. CGE Set I	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE	Col. 9613 c, hobbies, or y Col. 9614 Col. 9615 rom CGE end	s than before? Char 1 rour own activities? Char 1 Char 4 time Char 4	2 1 2 0-23 0-59 0000- 9999	SIT	No Yes No HHMM Minutes
	b. CGE Set I Subt	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE	Col. 9613 c, hobbies, or y Col. 9614 Col. 9615 rom CGE end	s than before? Char 1 rour own activities? Char 1 Char 4 time Char 4	2 1 2 0-23 0-59 0000- 9999		No Yes No HHMM Minutes
Set S	b. Set I Subl	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE Time START_29	Col. 9613 , hobbies, or y Col. 9614 Col. 9615 rom CGE end Col. 9619	s than before? Char 1 rour own activities? Char 1 Char 4 time Char 4 Section D - CAREGIVER'S	2 1 2 0-23 0-59 0000- 9999 JVING	SIT	No Yes No HHMM Minutes JATION
Set S	b. CGE Set I Subi	Less time for other fa CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fa CUML_CGE Time START_29 RELATIONSHIP	Col. 9613 hobbies, or y Col. 9614 Col. 9615 rom CGE end Col. 9619 Col. 9623	s than before? Char 1 rour own activities? Char 1 Char 4 time Char 4 Section D - CAREGIVER'S Char 4	2 1 2 0-23 0-59 0000- 9999 JVING 0-59		No Yes No HHMM Minutes JATION
Set S	b. CGE Set I Subi	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE Time START_29 RELATIONSHIP or to CGREL. Is relati	Col. 9613 , hobbies, or y Col. 9614 Col. 9615 rom CGE end Col. 9619 Col. 9623 conship 'spous	s than before? <u>Char 1</u> your own activities? <u>Char 1</u> <u>Char 4</u> <u>Char 4</u> <u>Section D - CAREGIVER'S</u> <u>Char 4</u> <u>Section D - CAREGIVER'S</u>	2 1 2 0-23 0-59 0000- 9999 UVING 0-59		No Yes No HHMM Minutes JATION HHMM Yes - SKIP to 7a
Ser S	b. CGE Set I Subt	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE Time START_29 RELATIONSHIP or to CGREL. Is relation CLS_CK1	Col. 9613 hobbies, or y Col. 9614 Col. 9615 rom CGE end Col. 9619 Col. 9623	s than before? Char 1 rour own activities? Char 1 Char 4 time Char 4 Section D - CAREGIVER'S Char 4	2 1 2 0-23 0-59 0000- 9999 JVING 0-59		No Yes No HHMM Minutes JATION
Set S	b. CGE Set I Subt Start [*] CK R	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE Time START_29 RELATIONSHIP or to CGREL. Is relation CLS_CK1 HI MEM	Col. 9613 , hobbies, or y Col. 9614 Col. 9615 rom CGE end Col. 9619 Col. 9623 conship 'spous Col. 9627	s than before? <u>Char 1</u> your own activities? <u>Char 1</u> <u>Char 4</u> <u>Char 4</u> <u>Section D - CAREGIVER'S</u> <u>Char 4</u> e'? <u>Char 1</u>	2 1 2 0-23 0-59 0000- 9999 JVING 0-59 1 2		No Yes No HHMM Minutes JATION HHMM Yes - SKIP to 7a No
Ser S	b. CGE Set I Subt Start [*] CK R	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE Time START_29 RELATIONSHIP or to CGREL. Is relation CLS_CK1 HI MEM or to CGHOME. Does	Col. 9613 a, hobbies, or y Col. 9614 Col. 9615 rom CGE end Col. 9619 Col. 9623 conship 'spous Col. 9627 a caregiver live	s than before? <u>Char 1</u> your own activities? <u>Char 1</u> <u>Char 4</u> <u>Char 4</u> <u>Section D - CAREGIVER'S</u> <u>Char 4</u> e'? <u>Char 1</u> e with sample person?	2 1 2 0-23 0-59 0000- 9999 JVING 0-59 1 2		No Yes No HHMM Minutes JATION HHMM Yes - SKIP to 7a No
Set S CHE	b. CGE Set I Subt Start CK R Refe	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE Time START_29 RELATIONSHIP or to CGREL 1s relation CLS_CK1 HI MEM or to CGHOME. Does CLS_CK2	Col. 9613 a, hobbies, or y Col. 9614 Col. 9615 rom CGE end Col. 9619 Col. 9623 conship 'spous Col. 9627 s caregiver live Col. 9628	s than before? <u>Char 1</u> your own activities? <u>Char 1</u> <u>Char 4</u> <u>Char 4</u> <u>Section D - CAREGIVER'S</u> <u>Char 4</u> e'? <u>Char 1</u> e with sample person? <u>Char 1</u>	2 1 2 0-23 0-59 0000- 9999 JVING 0-59 1 2 1 2		No Yes No HHMM Minutes JATION HHMM Yes - SKIP to 7a No Yes No - SKIP to 3
Set S	b. CGE Set I Subt Start [*] CK R	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE Time START_29 RELATIONSHIP or to CGREL 1s relation CLS_CK1 HI MEM or to CGHOME. Does CLS_CK2	Col. 9613 a, hobbies, or y Col. 9614 Col. 9615 rom CGE end Col. 9619 Col. 9623 conship 'spous Col. 9627 s caregiver live Col. 9628	s than before? <u>Char 1</u> your own activities? <u>Char 1</u> <u>Char 4</u> <u>Char 4</u> <u>Section D - CAREGIVER'S</u> <u>Char 4</u> e'? <u>Char 1</u> e with sample person?	2 1 2 0-23 0-59 0000- 9999 JVING 0-59 1 2 1 2 1		No Yes No HHMM Minutes JATION HHMM Yes - SKIP to 7a No
Set S CHE	b. CGE Set I Subt Start CK R Refe	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE Time START_29 RELATIONSHIP or to CGREL 1s relation CLS_CK1 HI MEM or to CGHOME. Does CLS_CK2	Col. 9613 a, hobbies, or y Col. 9614 Col. 9615 rom CGE end Col. 9619 Col. 9623 conship 'spous Col. 9627 s caregiver live Col. 9628	s than before? <u>Char 1</u> your own activities? <u>Char 1</u> <u>Char 4</u> <u>Char 4</u> <u>Section D - CAREGIVER'S</u> <u>Char 4</u> e'? <u>Char 1</u> e with sample person? <u>Char 1</u>	2 1 2 0-23 0-59 0000- 9999 JVING 0-59 1 2 1 2		No Yes No HHMM Minutes JATION HHMM Yes - SKIP to 7a No Yes No - SKIP to 3
Set S CHE	b. CGE Set I Subt Start CK R Refe	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE Time START_29 RELATIONSHIP or to CGREL. 1s relation CLS_CK1 HI MEM or to CGHOME. Does CLS_CK2 Did you and (sample)	Col. 9613 a, hobbies, or y Col. 9614 Col. 9615 rom CGE end Col. 9619 Col. 9623 conship 'spous Col. 9627 s caregiver live Col. 9628	s than before? <u>Char 1</u> your own activities? <u>Char 1</u> <u>Char 4</u> <u>Char 4</u> <u>Section D - CAREGIVER'S</u> <u>Char 4</u> e'? <u>Char 1</u> e with sample person? <u>Char 1</u>	2 1 2 0-23 0-59 0000- 9999 JVING 0-59 1 2 1 2 1		No Yes No HHMM Minutes JATION HHMM Yes - SKIP to 7a No Yes No - SKIP to 3 Yes - SKIP to 7a
Set S CHE	b. CGE Set I Subt Start CK R Refe	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE Time START_29 RELATIONSHIP ar to CGREL. Is relation CLS_CK1 HI MEM ar to CGHOME. Does CLS_CK2 Did you and [sample needed your care? CLS_1A	Col. 9613 a, hobbies, or y Col. 9614 Col. 9615 rom CGE end Col. 9623 conship 'apous Col. 9627 a caregiver live Col. 9628 person] live t Col. 9629	s than before? Char 1 rour own activities? Char 1 Char 4 time Char 4 Section D - CAREGIVER'S Char 4 e'? Char 1 e with sample person? Char 1 ogether before [he/she] Char 1	2 1 2 0-23 0-59 0000- 9999 JVING 0-59 1 2 1 2 1		No Yes No HHMM Minutes JATION HHMM Yes - SKIP to 7a No Yes No - SKIP to 3 Yes - SKIP to 7a No
Set S CHE	b. CGE Set I Subt Start CK R Refe a.	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE Time START_29 RELATIONSHIP ar to CGREL. Is relation CLS_CK1 HI MEM ar to CGHOME. Does CLS_CK2 Did you and [sample needed your care? CLS_1A Before you began live	Col. 9613 a, hobbies, or y Col. 9614 Col. 9614 Col. 9615 rom CGE end Col. 9623 conship 'spous Col. 9623 conship 'spous Col. 9627 a caregiver live Col. 9628 person] live t Col. 9629 ring together, a	s than before? Char 1 Your own activities? Char 1 Char 4 time Char 4 Section D - CAREGIVER'S Char 4 e'? Char 1 e with sample person? Char 1 ogether before [he/she] Char 1 did you live less than 1 mile	2 1 2 0-23 0-59 9999 1 1 2 1 2 1 2 1 2 1 2 1		No Yes No HHMM Minutes UATION HHMM Yes - SKIP to 7a No Yes No - SKIP to 3 Yes - SKIP to 7a No
Set S CHE	b. CGE Set I Subt Start CK R Refe a.	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE Time START_29 RELATIONSHIP art to CGREL. Is relati CLS_CK1 HI MEM art to CGHOME. Does CLS_CK2 Did you and (sample needed your care? CLS_1A Before you began live away, between 1 and	Col. 9613 a, hobbies, or y Col. 9614 Col. 9615 rom CGE end Col. 9619 Col. 9623 conship 'apous Col. 9627 a caregiver live Col. 9628 person] live t Col. 9629 ring together, i d 10 miles aw	s than before? Char 1 Your own activities? Char 1 Char 4 time Char 4 Section D - CAREGIVER'S Char 4 e'? Char 1 e with sample person? Char 1 ogether before [he/she] Char 1 did you live less than 1 mile ay, 10 and 50 miles away,	2 1 2 0-23 0-59 99999 1 UVING 0-59 1 2 1 2 1 2 1 2 1 2		No Yes No HHMM Minutes JATION HHMM Yes - SKIP to 7a No Yes No - SKIP to 3 Yes - SKIP to 3 Yes - SKIP to 7a No Less than 1 mile away Between 1 and 10 miles away
Set S CHE	b. CGE Set I Subt Start CK R Refe a.	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE Time START_29 RELATIONSHIP ar to CGREL. Is relati CLS_CK1 HI MEM ar to CGHOME. Does CLS_CK2 Did you and (sample needed your care? CLS_1A Before you began live away, between 1 and between 50 and 1000	Col. 9613 a, hobbies, or y Col. 9614 Col. 9615 rom CGE end Col. 9619 Col. 9623 conship 'spous Col. 9623 a caregiver live Col. 9628 person] live t Col. 9629 ring together, i d 10 miles aw miles way, bo	s than before? Char 1 Your own activities? Char 1 Char 4 time Char 4 Section D - CAREGIVER'S Char 4 e'? Char 1 e with sample person? Char 1 ogether before [he/she] Char 1 did you live less than 1 mile ay, 10 and 50 miles away, atween 100 and 500 miles	2 1 2 0-23 0-59 99999 1 UVING 0-59 1 2 1 2 1 2 3		No Yes No HHMM Minutes UATION HHMM Yes - SKIP to 7a No Yes - SKIP to 7a No Yes - SKIP to 3 Yes - SKIP to 7a No Less than 1 mile away Between 1 and 10 miles away Between 10 and 50 miles away
Set S CHE	b. CGE Set I Subt Start CK R Refe a.	Less time for other fr CGE_15_A To give up vacations CGE_15_B End Time END_CGE tract CGE start time fr CUML_CGE Time START_29 RELATIONSHIP art to CGREL. Is relati CLS_CK1 HI MEM art to CGHOME. Does CLS_CK2 Did you and (sample needed your care? CLS_1A Before you began live away, between 1 and	Col. 9613 a, hobbies, or y Col. 9614 Col. 9615 rom CGE end Col. 9619 Col. 9623 conship 'spous Col. 9623 a caregiver live Col. 9628 person] live t Col. 9629 ring together, i d 10 miles aw miles way, bo	s than before? Char 1 Your own activities? Char 1 Char 4 time Char 4 Section D - CAREGIVER'S Char 4 e'? Char 1 e with sample person? Char 1 ogether before [he/she] Char 1 did you live less than 1 mile ay, 10 and 50 miles away, atween 100 and 500 miles	2 1 2 0-23 0-59 99999 1 UVING 0-59 1 2 1 2 1 2 1 2 1 2		No Yes No HHMM Minutes JATION HHMM Yes - SKIP to 7a No Yes No - SKIP to 3 Yes - SKIP to 3 Yes - SKIP to 7a No Less than 1 mile away Between 1 and 10 miles away

1			6		More than 500 miles away
2.	a.		1		Yes - SKIP to 7a
1		person]'s disability, do you think you would still live together	2		No
		in the same household?	D.R		- SKIP to 7a
		CLS_2A Col. 9631 Char 1	_,	<u> </u>	J
	b.	Would you live in the same neighborhood, in a different	1		In the same neighborhood
		neighborhood but in the same city or town, or somewhere	2		In a different neighborh SKIP to 7a
		else?	-		but in the same city or town
		CLS_2B Col. 9632 Char 1	3		Somewhere else
3.		About how long does it take you to get to [sample person]'s			
l°.		house from where you live by the usual way?			
		NOTE: Minutes OR Hours			
		CLS_3_MN Col. 9633 Char 2	1-60		Minutes
		CLS_3_HR Col. 9635 Char 2	1-99		Hours
4.	a.	Have you ever changed your place of residence because of	1		Yes
l"	-	[sample person]'s disability?	2		No - SKIP to CLS 5A
1		CLS_4A Col. 9637 Char 1	D,R		- SKIP to CLS 5A
	b.	Did you make that move from less than 1 mile away, between	1		Less than 1 mile away
	-	1 and 10 miles away, between 10 and 50 miles away,	2	\vdash	Between 1 and 10 miles away
1		between 50 and 100 miles away, between 10 and 50 miles	3		Between 10 and 50 miles away
		away, or more than 500 miles away?	4		Between 50 and 100 miles away
		CLS_4B Col. 9638 Char 1	5	\vdash	Between 100 and 500 miles away
			6		More than 500 miles away
5.	a .	Has [sample person] ever changed [his/her] place of residence	1		Yes
ľ.		to live closer to you because of [his/her] disability?	2		No - SKIP to 6a
		CLS_5A Col. 9639 Char 1	D,R		- SKIP to 6a
	b.		1		Less than 1 mile away
	υ.	away, between 1 and 10 miles away, between 10 and 50	2		Between 1 and 10 miles away
1		miles away, between 50 and 100 miles away, between 100	3		Between 10 and 50 miles away
		and 500 miles away, or more than 500 miles away?	4		Between 50 and 100 miles away
		CLS_5B Col. 9640 Char 1	5		Between 100 and 500 miles away
			6		More than 500 miles away
[No	te: L	etter c not used.]	ř—		
1	d.	Did [sample person] move mainly so that it would be more	1		Yes
		convenient for you to take care of [him/her]?	2		No
		CLS 5D Col. 9641 Char 1	[1
6.	a.	Have you ever wanted to change your place of residence but	1	T	Yes
—	•	did not because you needed to live close to [sample person]	2		No - SKIP to 7a
		because of [sample person]'s disability?	D.R		- SKIP to 7a
1		CLS_6A Col. 9642 Char 1		<u>ـــــ</u>	
	b.	Would you have liked to live in a different neighborhood in the	1	1	Different neighborhood
1		same city or town, or somewhere else?	2	F	Somewhere else
		CLS_6B Col. 9643 Char 1			•
7.		Often, a person you take care of can be helpful to you. I am			
1		going to read you a list of ways people can be helpful. As I	I		
1		read each statement, please tell me if [sample person] has	I		
1		been helpful to you in that way.	I		
	a.	Helping with household chores	1	Γ	Yes
1		CLS_7_1 Col. 9644 Char 1	2		No
	b.	Helping with babysitting	1	1	Yes
		CLS_7_2 Col. 9645 Char 1	2		No
	C.	Buying things for me or giving me money	1	1	Yes
1		CLS_7_3 Col. 9646 Char 1	2		No
	d.	Keeping me company	1	1	Yes
		CLS_7_4 Col. 9647 Char 1	2		No
	е.		1	1	Yes
		CLS_7_5 Col. 9648 Char 1	2		No
			<u></u>	-	

f.	Another way - Specify	1	1	Yes - Specify in CLS_7_S below
	CLS_7_6 Col. 9649 Char 1	2		No
				CLS_7_S Col. 9650 Char 40
END CLS				
Set	End Time	0-23		
L	END_CLS Col. 9690 Char 4	0-59		ННММ
Sub	tract CLS start time from CLS end time	0000-		h
	CUML_CLS Col. 9694 Char 4	9999		Minutes
Set Start	Section E - CAREGIVER'S	WOHK	SII	JATION
Sersian		1		
1. a.		1	<u> </u>	Less than 3 months
1. a.	because of [sample person]'s disability?	2	-	a months - less than 6 months
	CWS 1A Col. 9702 Char 1	3	-	6 months - less than 6 months 6 months - les than 1 year
		4		1 year - less than 2 years
		5		2 years - less than 4 years
		6		4 years - less than 7 years
		7		7 years - less than 10 years
		8		10 years or more
b.	Do you provide more care, less care, or the same amount of	li		More
-	care now as you did then?	2		Less
l .	CWS_1B Col. 9703 Char 1	3		Same - SKIP to 2a
		D,R		- SKIP to 2a
С.	How long ago did you start taking care of [sample person] as	1		Less than 3 months
-	much as you do now?	2	-	3 months - less than 6 months
	CWS_1C Col. 9704 Char 1	3		6 months - les than 1 year
1		4	· · · ·	1 year - less than 2 years
		5		2 years - less than 4 years
-		6	-	4 years - less than 7 years
		7		7 years - less than 10 years
		8		10 years or more
2.	We are interested in knowing more about the kinds of people		•	
	who give care. The next few questions are about you.	1		
a.	How old are you?	15-99		YY
	CWS_2 Col. 9705 Char 2	D, R		
b.	What is your current marital status?	1.		Married
	CWS_28 Col. 9707 Char 1	2		Widowed
		3		Divorced
		4		Separated
		5		Never Married
L		6		Partnered, not married
<u>م</u>	INTERVIEWER: IS CAREGIVER MALE OR FEMALE?	1		Male
<u> </u>	CWS_2C Col. 9708 Char 1	2		Female
3. a.	Are you currently working for pay at a job or business?	1	L	Yes
	CWS_3A Col. 9709 Char 1	2		No - SKIP to 4a
<u> </u>		D,R	 	- SKIP to 4a
b.	How many hours per week do you usually work?	1-34		Hours
	CWS_38 Col. 9710 Char 3	35-160)	Hours - SKIP to 5a
С.	,	1	⊢	Yes - SKIP to 6a
	you help [sample person]?	2	┣	No - SKIP to 5a
4. a.	CWS_3C Col. 9713 Char 1 Have you ever worked at a job for pay?	D,R 1	–	- SKIP to 5a
a.	CWS_4A Col. 9714 Char 1	•	⊢	
[2 D,R	┣	No - SKIP to 10
b.	How long and did you aton working at your last ich?		╟	- SKIP to 10
U	How long ago did you stop working at your last job? CWS_4B Col. 9715 Char 1	1	⊢	Less than 3 months
	0110_10 UOI. 5/10 UNAFI	2	⊢	3 months - less than 6 months
I		3		6 months - les than 1 year

		. I		1 year - less than 2 years
		4		•
		5		2 years - less than 4 years
		6		4 years - less than 7 years
		7		7 years - less than 10 years
		8		10 years or more
с.	What was the MAIN reason you stopped working at that job?	1		Retired
	CWS_4C_1 Col. 9716 Char 1	2		W/disabled
		3		Had to take care of (sample person) SKIP
		4		Wanted to take care of home/family to
				(other than sample person) CV(S_CK2
		5		Fired/Laid off
		6		Went (back) to school
		7		Other - Specify in CWS_4C_S below
		D,R		
		I '		CWS_4C_S Col. Char 40 (blank)
d.	Would you have continued working longer if you were not	1		Yes
.	taking care of [sample person]?	2		No
		F	L	J ,
		 		
CWS_CH		1		
[[Re	eler to 4b and 1a]	L		Yes - SKIP to 9a
	Did caregiver stop working BEFORE he/she began caring	1		
	for sample person?	2		No
	CWS_CK2 Col. 9718 Char 1	I		
5. a.		1		Yes
	wanted to because you were taking care of [sample person]?	2		No - SKIP to 6a
	CWS 5A Col. 9719 Char 1	D,R		- SKIP to 6a
b.	How long ago did this happen (the last time)?	1		Less than 3 months
	CWS 5B Col. 9720 Char 1	2		3 months - less than 6 months
		3		6 months - les than 1 year
		4		1 year - less than 2 years
		5		2 years - less than 4 years
		6	\vdash	4 years - less than 7 years
		7	-	7 years - less than 10 years
		8	+	10 years or more
6. a.	Have you ever had to rearrange your schedule at a job	1		Yes
	because you had to take care of [sample person]?	2		No - SKIP to 7a
	CWS_6A Col. 9721 Char 1	D,R		- SKIP to 7a
b.	How long ago did this happen (the last time)?	1		Less than 3 months
	CWS_6B Col. 9722 Char 1	2		3 months - less than 6 months
	-	3		6 months - les than 1 year
		4		1 year - less than 2 years
		5		2 years - less than 4 years
1		6		4 years - less than 7 years
		7		7 years - less than 10 years
		8		10 years or more
	(Desides what you have already told ma) blows you are had	1	+-	Yes
7. a.		2		No - SKIP to 8a
1	to take time off without pay from a job because you had to		L	- SKIP to 8a
	take care of [sample person]?	D,R		
	CWS_7A Col. 9723 Char 1	- 	—	have the America
b.	How long ago did this happen (the last time)?	1		Less than 3 months
	CWS_7B Col. 9724 Char 1	2	F	3 months - less than 6 months
		3	L	6 months - les than 1 year
		4		1 year - less than 2 years
		5	Γ	2 years - less than 4 years
		6	Г	4 years - less than 7 years
		7		7 years - less than 10 years
		8		10 years or more
1			1	

С.	How long were you off from work without pay (the last time)? Number:			
	CWS_7C_N Col. 9725 Char 2	0-99		Amount
	Units: CWS_7C_U Col. 9727 Char 1	1		Hours
		2		Days
		3		Weeks
		4		Months
8. a.	How you over had to mit a lab because you were taking	-1		Yes
0. a.	Have you ever had to quit a job because you were taking care of [sample person]?	2		vers No - SKIP to 9a
		D,R		
b.		1		- SKIP to 9a Less than 3 months
U.	CWS_8B Col. 9729 Char 1	2		
		3		3 months - less than 6 months
		4		6 months - les than 1 year
		5		1 year - less than 2 years
		6		2 years - less than 4 years
		7		4 years - less than 7 years 7 years - less than 10 years
		8	-	-
9. a.	For whom do as did you work?	⁰		10 years or more Blank
	For whom do or did you work? CWS_9A			
Ь.	What kind of business is this or was this?		L	Kind of business
	CWS_98 Col. 9730 Char 50			
C.	What kind of work are or were you doing?			Kind of work
	CWS_9C Col. 9780 Char 50			
d.	······································			Most important duties
	CWS_9D Col. 9830 Char 90			
e.		11		An employee of a PRIVATE company, business, or
	CWS_9E Col. 9920 Char 1			individual for wages, salary, or commission? -
				SKIP to 9g
		2	L	A FEDERAL government employee? - SKIP to 10 CWS_10
		3		A STATE government employee?SKIP to 10
		4	-	A LOCAL government employee?SKIP to 10
		5		Self-employed in your OWN business, professional
		-	•	practice or farm?
		D,R	F	SKIP to 10
1.	Is this business incorporated?	1		Yes
	CWS_9F Col. 9921 Char 1	2		No > SKIP to 10
		D.R		
g.	is this or was this a nonprofit organization?	1		Yes
	CWS 9G Col. 9922 Char 1	2		No
10.	Has taking care of [sample person] ever kept you from looking	1		Yes
	for a job?	2		No
	CWS_10 Col. 9923 Char 1		•	
11. a.	Have you ever had to turn down a job because you were	1	Γ	Yes
	taking care of (sample person)?	2	F	No - SKIP to CWS_CK3
	CWS_11A Col. 9924 Char 1	D.R		- SKIP to CWS_CK3
b.	How long ago did this happen (the last time)?	1	\mathbf{t}	Less than 3 months
	CWS_11B Col. 9925 Char 1			3 months - less than 6 months
	_	3		6 months - les than 1 year
		4		1 year - less than 2 years
		5		2 years - less than 4 years
		2 3 4 5 6 7	-	4 years - less than 7 years
		7		7 years - less than 10 years
		8	\vdash	10 years or more
CWS_C	(3	-1	J	
2	-	i		

[Re	fer to 3a, 4a, and 4b]			1		
	-	or did caregiv	ver ever have to work and	1		Yes
	take care of the sam	ple person at 1	he same time?	2		No - SKIP to CWS_CK4
	CWS CK3	Col. 9926	Char 1	- I		
12.			er and caregiver, did you			
16.	ever	S DOUT & WORK	and caregiver, did you			
			+ N 0		_	N
a.	•	•	•	1		Yes
	CWS_12_1	Col. 9927	Char 1	2		No
b.	Have to take a less	demanding job	?	1		Yes
	CWS_12_2	Col. 9928	Char 1	2		No
С.	Have to turn down a	promotion?		1		Yes
ļ	CWS_12_3	Col. 9929	Char 1	2		No
d.	Choose early retiren	nent?		1		Yes
	CWS 12 4	Col. 9930	Char 1	2		No
e.	Lose any job?	001.0000		1		Yes
0.		Col 0021	Chor 1	2		No
040 0		Col. 9931	Char 1	2		
cws_c						h.,
l (Re	efer to 3a)			1		Yes
1	Is caregiver currently			2		No - SKIP to END CWS
L	CWS_CK4	Col. 9932	Char 1	I		
1.	How would you rate	your employe	's attitude toward the	1		Not very understanding
	demands of your ca	regiving: Woul	d you say they were very	2		Somewhat understanding
	understanding, som	ewhat underst	anding, or not very	3		Very understanding
1	understanding?		•	4		They were not aware of it
1	CWS_12B	Col. 9933	Char 1	ľ		
13.	the second se		e, how much do you agree	<u> </u>	_	
1.0.		•		I		
	-	•	ments about your present	i		
	work situation? In th			I		1a
a.	You have had less e	••••••		1		Strongly disagree
1	CWS_13_1	Col. 9934	Char 1	2		Disagree
				3		Agree
1				4		Strongly Agree
b.	You have missed to	o many days.		1		Strongly disagree
1	CWS_13_2	Col. 9935	Char 1	2		Disagree
				3		Agree
				4		Strongly Agree
	New hour hour dies		a suclide of ensure that	1	┣	
<u>م</u>			e quality of your work.	•		Strongly disagree
	CWS_13_3	Col. 9936	Char 1	2		Disagree
				3	_	Agree
				4		Strongly Agree
d.	You worry about [sa	mple person]	while you are at work.	1		Strongly disagree
1	CWS_13_4	Col. 9937	Char 1	2		Disagree
1				3		Agree
				4		Strongly Agree
e.	Phone calle about a	r from learnale	person) interrupt you at	1	+	Strongly disagree
			poroonj interrupt you at	1	<u> </u>	
1	work.	0.1.0000	0	2	1	Disagree
1	CWS_13_5	Col. 9938	Char 1	3	⊢	Agree
J				14	1	Strongly Agree
END CV	NS			1		
Se	t End Time			0-23		_
1	END_CWS	Col. 9939	Char 4	0-59		ннмм
Su	btract CWS start time		l time	0000-	*	
	CUML CWS	Col. 9943	Char 4	9999		Minutes
			Section F - GENERAL INFORM		ON	
Carl Of	1 Date and Ot- AT			T	-	
	rt Date and Start Time			1		
I Th	me:			1		
	START_31	Col. 9947	Char 4	1		

1.		next questions are about your health. Since we are talking	1		
1		wide variety of people, some of the questions may not			
1	see	m to apply to you. Even so, it is important that we have	1		
1	com	plete answers from everyone.	1		
1	а.	Compared to other people your age, would you say your	1		Exceitent
1		health, in general, is excellent, good, fair, or poor?	2	F	Good
1		GIC_1A Col. 9951 Char 1	3		Fair
1			4		Poor
	b.	Do you usually do heavy work around the house such as	11	1	Yes-can do heavy work around the house
1		moving furniture, scrubbing floors, or washing windows OR	2		No-someone helps because of a disability or health
1		does someone usually help you do heavy work around the	Γ	L	problem
1		house because of a disability or health problem (including old	1		F
1		age)?	1		
1		GIC_HVW Col. 9952 Char 1	1		
	с.	Do you usually do light work around the house such as	1	T	Yes-can do light work around the house
1	~	straightening up, putting things away, or washing dishes OR	2	-	No-someone helps because of a disability or health
1		does someone usually help you do light work around the house	ľ	L	problem
1		because of a disability or health problem (including old age)?	1		promoni .
1		GIC_LTW Col. 9953 Char 1	1		
	d.	Do you usually do your own laundry OR does someone usually	1	T	Yes-can do own laundry
1	ч.	help you do your own laundry because of a disability or health	2	\vdash	No-someone helps do laundry because of a disability
			ľ	L	
1		problem (including old age)? GIC LND Col. 9954 Char 1	1		or health problem
	e.	GIC_LND Col. 9954 Char 1 Do you usually prepare your own meals OR does someone	1	T	Yes-can prepare own meals
1	e.	usually help you prepare your own means OR does someone usually help you prepare your own means because of a	2	┢	No-someone helps prepare meals because of a
		disability or health problem (including old age)?	ľ	L	disability or health problem
1			1		
	f.		 , 	T	Yes-can shop for proceries
1	١.	Do you usually shop for groceries, that is, go to the store,	2	-	No-someone helps shop for proceries because of a
1		select the items, and get them home OR does someone usually	ľ		disability or health problem
		help you shop for groceries or do it for you because of a	1		
		disability or health problem (including old age)?	1		
		GIC_SHP Col. 9956 Char 1 When you go outside, does someone usually help you get	 	τ-	IYes
	g.		2	\vdash	No
		around because of a disability or health problem? GIC_OUTA Col. 9957 Char 1	۴		
	h.		1.	T	Yes
	n.	When you go outside, do you use special equipment like a cane or walker or a guide dog to help you get around because of	2	-	No
		a disability or health problem?	ľ	L	1 .~
			1		
-	i.	GIC_OUTB Col. 9958 Char 1 How do you USUALLY go places outside of walking distance?	1	T -	Car
1	۰.	GIC_WLK1 Col. 9959 Char 1	2		l Van
1			3	\vdash	Taxi
			4	\vdash	Bus
1			5	-	Other public transportation
			6	\vdash	Other public transportation Other - Specify in GIC_WLK2 below
			16 17	\vdash	Does not travel at all - SKIP to k
			ľ	L	
\vdash		Does someone usually help you go places outside of walking	1	—	GIC_WLK2 Col. 9960 Char 60
	j.		2	\vdash	No
		distance because of a disability or health problem?	l ^e		
\vdash		GIC_WLK3 Col. 10020 Char 1	1.	T	Yes-manage own money
	k.	Do you usually manage your own money by yourself including	1		
		things like keeping track of bills or handling cash or does some-	2	L	No-someone helps manage money because of a
		one help you manage your own money because of a disability	1		disability or health problem
		or health problem (including old age)?	1		
		GIC_MON Col. 10021 Char 1	+	-	[Vee
	I.	Does someone usually help you take your medicine because of	1		Yes
1		a disability or health problem?	2	L	_No

22 of 28

١.,

GIC_MED Col. 10022 Char 1	3 Does not take medicine at all
	1 Yes-can make own telephone calls
of another person or does someone usually help you make	2 No-someone helps make calls because of a
your own telephone calls because of a disability or health	disability or health problem
problem (including old age)?	
GIC_TEL Col. 10023 Char 1	
GIC_CKHP	
[Refer to GIC_HVW, GIC_LTW, GIC_LND, GIC_MLS, GIC_SHP,	
GIC_OUTA, GIC_OUTB, GIC_WLKB,GIC_MON, GIC_TEL]	
Is caregiver disabled on any of these activities?	1 Yes
GIC_CKHP Col. 10024 Char 1	2 No - SKIP to GIC_CK1
2. You said that health or age has kept you from doing:	
[GIC_HVW, GIC_LTW, GIC_LND, GIC_MLS, GIC_SHP,	
GIC_OUTA, GIC_OUTB, GIC_WLK3, GIC_MON, GIC_TEL]?	
About how long has your health or age kept you from doing	1 Less than 3 months
this?	2 3 months to less than 6 months
INTERVIEWER: Probe as necessary, code for longest	3 6 months to less than 1 year
	4 1 year to less than 5 years
	5 5 years or over
3. What health conditions, either mental or physical, cause you	Allow up to 50 characters
	N,D,R
to GIC_HVW, GIC_LTW, GIC_LND, GIC_MLS, GIC_SHP,	
GIC_OUTA, GIC_OUTB, GIC_WLK3, GIC_MON, GIC_TEL]?	
INTERVIEWER: Probe for specific condition. Enter verbatim	
response with each new condition on a separate line. Re-ask	
until no more conditions named.	
ENTER N FOR NO OTHER CONDITIONS	
GIC_ID01 Col. 10026 Char 50	
GIC_ID02 Col. 10076 Char 50	
GIC_ID03 Col. 10126 Char 50	
GIC_ID04 Col. 10176 Char 50	
GIC_ID05 Col. 10226 Char 50	
GIC_ID06 Col. 10276 Char 50	
GIC_ID07 Col. 10326 Char 50	
GIC_ID08 Col. 10376 Char 50	
GIC_ID09 Col. 10426 Char 50	
GIC_ID10 Col. 10476 Char 50	
GIC_CK13	
If only one condition is listed in 2b, SKIP to GIC_CK1	
4. What is the MAIN condition:	1-10 Condition number from 3 above.
GIC_ID11 Col. 10526 Char 2	
	1Yes - Set OUTCOME='201' and SKIP to Control Card FINISH
[Refer to CGHOME]	
Is caregiver a member of sample person's household?	
GIC_CK1 Col. 10528 Char 1 5. Other than yourself, is there anyone else currently living or	OUTCOME Col. Char 3
staying in your home?	2 No - SKIP to 12a
	D,R SKIP to 12a
CREATE FAMILY	
6. Please give me the name of the person(s) currently living	
or staying in your home.	
and n g in jaar mannar	
MEMNAM1 -	blank
MEMNAM20	
7. What is [MEMNAMox]'s relationship to you?	2 Spouse
GICREL1 - Col. 10530 20 ° Char 2	3 Son/daughter
	4 Son-in-law/daughter-in-law

			5		Parent
			6		Parent-in-law
		1	7	\neg	Brother/sister
			8	_	Brother-in-law/sister-in-law
			9		Grandchild
		!	9 10	\vdash	Other relative
			10	\vdash	
		•	11 12		Employee Other non-relative
				\vdash	
8.			1		Male
			2		Female
		OBSERVATION			
		GICSEX1 - Col. 10570 20 ° Char 1			
		GICSEX20			M
9.			1-110		Years
		INTERVIEWER: IF LESS THAN 1 YEAR OLD, ENTER 1			
		GICAGE1 - Col. 10590 20 ° Char 3			
		GICAGE20			
10.			1	\square	Married
		-	2	\square	Widowed
			3		Divorced
1			4		Separated
			5		Never married
<u> </u>			6		Partnered/not married
11.			1	\vdash	Yes - Return to 6
		,	2	L	No
		GICMOR1 - Col. 10670 20 * Char 1			
	_	GICMOR20			
L		Close family r			N
12.	а.		1	⊢	Yes
		, , , , , , , , , , , , , , , , , , , ,	2	-	No - SKIP to 13a
1			D,R	L	- SKIP to 13a
		GIC_12A Col. 10690 Char 1			······································
	b.	How much did you [and all members of the family] receive in	1 -		
1		[previous month]?	5001	⊢	Dollars - SKIP to 13a
┣_	_	GIC_12B Col. 10691 Char 4	D,R	┣	
1	C.		1	\vdash	Under \$200
1			2	-	\$200 - \$399
1			3	\vdash	\$400 - \$599
		GIC_12C Col. 10695 Char 2	4	┣-	\$600 - \$799
1			5	1	\$800 - \$999
1			6	1	\$1000 - \$1499
1			7	F	\$1500 - \$1999
1			8	\vdash	\$2000 - \$2999
1			9		\$3000 - \$3999
			10		Over \$4000
13.	а.	During [previous month], did you or any members of your family	1		
1		who live here receive any other retirement, pension, or	2		No - SKIP to 14a
1		annuity income?	D,R	L	- SKIP to 14a
		GIC_13A Col. 10697 Char 1	<u> </u>		· · · · · · · · · · · · · · · · · · ·
	b.		1.		
		[previous month]?	5001		Dollars - SKIP to 14a
		GIC_13B Col. 10698 Char 4	D,R	+	
	C.	Which category would you say best represents the amount	1		Under \$200
		that you (and all members of the family) received in [previous	2	F	\$200 - \$399
		month]?	3		\$400 - \$599
		GIC_13C Col. 10702 Char 2	4		\$6 00 - \$ 799
1			5	1	\$800 - \$999

24 of 28

1			6	_	\$ 1000 - \$ 1499
			7		
			1	-	\$1500 - \$1999
			8	<u> </u>	\$2000 - \$2999
			9	<u> </u>	\$3000 - \$3999
-			10	L	Over \$4000
14.	a .	During the last month, that is, in the month of [previous month],	1	L	Yes
		did you (or any members of your family who live here) receive	2		No - SKIP to 17a
1		Supplemental Security Income, that is, SSI payments? These	D,R		- SKIP to 17a
		can come from either the Federal government or the State	I		
		government.	1		
		GIC_14A Col. 10704 Char 1			
	b.	How much did you [and all members of the family] receive in	1 -		
		[previous month]?	5001		Dollars - SKIP to 17a
		GIC_14B Col. 10705 Char 4	D,R		1
	C.	Which category would you say best represents the amount	1		Under \$200
		that you (and all members of the family) received in [previous	2		\$200 - \$399
		month]?	3		\$400 - \$599
ł		GIC_14C Col. 10709 Char 2	4		\$600 - \$799
1			5		\$800 - \$999
1			6	F	\$1000 - \$1499
			7	⊢	\$1500 - \$1999
			8		\$2000 - \$2999
				 	\$3000 - \$3999
			9 10	<u> </u>	\$3000 - \$3999 Over \$4000
(Not	o N	umbers 15 and 16 are not used)			
F	a.	During (previous month), did you (or any members of your		<u> </u>	lvaa
1	а.		1	 	Yes No - SKIP to 18a
		family who live here) receive food stamps?	2		
	-	GIC_17A Col. 10711 Char 1	D,R		- SKIP to 18a
	Ь.	What was the value of the stamps received?	1 -		
		GIC_17B Col. 10712 Char 4	5000		Dollars - SKIP to 18a
			D,R		
	C .	Which category would you say best represents the value	1		Under \$200
		of the stamps received?	2		\$200 - \$399
		GIC_17C Col. 10716 Char 2	3 4 5 6 7	<u> </u>	\$400 - \$599
			4		\$600 - \$799
			15		\$800 - \$999
			6		\$1000 - \$1499
					\$1500 - \$1999
			8		\$2000 - \$2999
1			9		\$3000 - \$3999
			10		Over \$4000
18.	a .	During (previous month), did you (or any members of your	1		Yes
		family who live here) receive any payments from Aid to	2		No - SKIP to 19a
		Families with Dependent Children, sometimes called "AFDC" or	D,R		- SKIP to 19a
		"ADC," or any other welfare payments?			
		GIC_18A Col. 10718 Char 1			
	b.	How much did you (and all members of the family) receive in	1.		
		[previous month]?	5000		Dollars - SKIP to 19a
L		GIC_18B Col. 10719 Char 4	D,R		
	C.	Which category would you say best represents the amount	1		Under \$200
1		that you [and all members of the family] received in [previous	2		\$200 - \$399
1			3	Γ	\$ 400 - \$ 599
1		GIC_18C Col. 10723 Char 2	4		\$600 - \$799
1		-	5	\vdash	\$800 - \$999
1			4 5 6 7	\vdash	\$1000 - \$1499
1			17	⊢	\$1500 - \$1999
1			8	⊢	
1			10	1	\$2000 - \$2999

1			9		\$3000 - \$3999
			10	\vdash	Over \$4000
19.	8.	During [previous month] did you [or any members of your	11		Yes
	-	family who live here) receive any (other) welfare payments?	2		No - SKIP to 21a
		GIC_19A Col. 10725 Char 1	D,R		- SKIP to 21a
		Open Family	Roster		
	b.	Whose name was on the check? (Enter all that apply)	T		· · · · · · · · · · · · · · · · · · ·
		CGFMXE01 - Col. 10726 20 * Char 1	1		X' if selected
		CGFMXE20			
		Close Family	Roster		
	c1.	How much was the check for?	1.		-
		GIC_19C1 Col. 10746 Char 4	5000		Dollars - SKIP to 19d
			D,R		
	c2.	Which category would you say best represents the amount	1		Under \$200
		the check was for?	2		\$200 - \$399
		GIC_19C2 Col. 10750 Char 2	3		\$400 - \$599
			4		\$600 - \$799
			5		\$800 - \$999
			6		\$1000 - \$1499
			7		\$1500 - \$1999
			8		\$2000 - \$2999
			9		\$3000 - \$3999
			10		Over \$4000
		Open Family	Roster		
	d.	Whom did the check cover? Anyone else?			1
		FAM_XF1 - Col. 10752 20 * Char 1	1		X' if selected
		FAM_XF20			
		Close Family	Roster		
· ·		lumber 20 is not used)	1.		
21.	a.	During the last twelve months, what was the total combined	1		Under \$3,000
		income before deductions for you (and all members of your	2		3,000 - 3,999
		family who live with you]? Include money from jobs, net	3		4,000 - 4,999
		income from business or farm, pensions, dividends, interests,	4		5,000 - 5,999
		net income from rent, Social Security payments, and any		-	6,000 - 6,999
		other money income received by you (and all members of	6 7	-	7,000 - 7,999
		your family].	1		8,000 - 8,999 9,000 - 9,999
		GIC_21A Col. 10772 Char 2	8 9	-	10,000 - 11,999
			10	-	12,000 - 14,999 SKIP to
			11		15,000 - 19,999 GIC_CK2
			12	-	20,000 - 24,999
			13		25,000 - 29,999
			14		30,000 - 39,999
			15		40,000 - 49,999
			16		50,000 - 59,999
			17	-	60,000 - 69,999
			18		70,000 - 79,999
			1		80,000 - 99,999
			19 20		100,000 or more
			D, R		Continue
	a1	Would it be \$25,000 or more?	1	+	Yes - SKIP to a4
	ett.	GIC_21A1 Col. 10774 Char 1	2	F	No
			D,R	F	- SKIP to GIC_CK2
		Would it be \$10,000 or more?	1	+	Yes - SKIP to GIC_CK2
	a2.	GIC_21A2 Col. 10775 Char 1	2		No
			D,R	\vdash	- SKIP to GIC_CK2
	•3	. Would it be \$5,000 or more?	1	+-	Yes
I	a.).	$ \qquad \qquad$	1.	L	┛ Ĺ

26 of 28

1		GIC_21A3 Col. 10776 Char 1	2		No SKIP 10 GIC_CK2
			D,R		
	a4 .	Would it be \$50,000 or more?	11		Yes
		GIC_21A4 Col. 10777 Char 1	2		No - SKIP to GIC_CK2
		· · · · · · · · · · · · · · · · · · ·	D,R		- SKIP to GIC_CK2
	a5 .	Would it be \$75,000 or more?	1		Yes
		GIC_21A5 Col. 10778 Char 1	2		No
	_	Open Family I	Roster		
GIC	CK2				
1	[Refe	er to GICRELxx above.			
	Are	relatives other than spouse living with the caregiver?]	1		
		If no, SKIP to 22a. If yes, continue.			
21.	b.	Now only consider you (and your spouse). Which	1		Under \$3,000
		category on this card represents the total combined	2		3,000 - 3,999
		income before deductions during the LAST 12 months?	3		4,000 - 4,999
		Include money from jobs, net income from business	4		5,000 - 5,999
		or farm, pensions, dividends, interests, net income from rent,	5		6,000 - 6,999
		Social Security payments, and any other money income	6		7,000 - 7,999
		received by you (and your spouse).	7		8,000 - 8,999
		G_21B1 - Col. 10779 20 * Char 2	8		9,000 - 9,999
		G_21B20	9		10,000 - 11,999
			10		12,000 - 14,999 Skip to 22a
			11		15,000 - 19,999
1			12		20,000 - 24,999
			13		25,000 - 29,999
			14		30,000 - 39,999
			15		40,000 - 49,999
			16		50,000 - 59,999
			17		60,000 - 69,999
			18		70,000 - 79,999
1			19		80,000 - 99,999
			20		_100,000 or more
			D, R		Continue
	b1.	Would it be \$25,000 or more?	1		Yes - SKIP to b4
		G1_21B1 - Col. 10819 20 * Char 1	2	⊢	
		G1_21B20	D,R	_	- SKIP to 22
1	b2.	Would it be \$10,000 or more?	1		Yes - SKIP to 22
		G2_21B1 - Col. 10839 20 * Char 1	2		
		G2_21B20	D,R	╋	- SKIP to 22
	b3 .	Would it be \$5,000 or more?	1		
		G3_21B1 - Col. 10859 20 * Char 1	2	\vdash	_No } SKIP to 22
		G3_21B20	D,R	+	Yes
	b4 .	Would it be \$50,000 or more?	1	-	No - SKIP to 22
		G4_21B1 - Col. 10879 20 * Char 1	2	L	
\vdash		G4_21B20	+	—	Yes
	05.	Would it be \$75,000 or more?	2	\vdash	
		G5_21B1 - Col. 10899 20 * Char 1	ľ	L	
		G5_21B20 Close Family	Boster		
		In [previous month], about how much of your own money have	0-		
22.	a .		9999	Г	Dollars - SKIP to 23
		you spent taking care of [sample person]? GIC OWN Col. 10919 Char 4	D,R		
			1	+	Under \$200
	b.	of your own money you have spent taking care of [sample	2		\$200 - \$399
			3	\vdash	\$ 400 - \$ 599
		person] in [previous month]? GIC OWNC Col. 10923 Char 2	4	F	\$600 - \$799
		GIC_OWNC Col. 10923 Char 2	5		\$800 - \$999
1			15	1	14000 4000

				6 7 8 9 10		\$1000 - \$1499 \$1500 - \$1999 \$2000 - \$2999 \$3000 - \$3999 Over \$4000
23.		•	ractices and conditions are		.	
			es, we would like to refer			
			h information in this study.			
		•	ocial Security number.	1		
	What is your Soci	•				
	••	•	ber is optional and will not	1		
	affect your benefit	ts in any way.				
	GIC_SOC					Blank
END G				1		
l s	et Caregiver End Dat	e		I	_	-
	CGDAY2	Col. 10925	Char 6			MMDDYY
S	et End Time			0-23	_	
	END_GIC	Col. 10931	Char 4	0-59		HHMM
S	ubtract GIC start time	from GIC end tin	ne	0000-		
	CUML_GIC	Col. 10935	Char 4	9999		Minutes - SET OUTCOME = '201' and SKIP to Control Card FINISH

APPENDIX B: UCRIHS Approval Letter

MICHIGAN STATE

April 9, 2005

Initial IRB Application Approval

To: Barbara Ames 13f Human Ecology Dept. Human Ecology

Re:	IRB # 05-185	Category: EXEMPT 1-4
	Approval Date:	April 9, 2005
	Expiration Date:	April 8, 2006

Title: THE PREDICTORS OF THE CAREGIVING EXPERIENCE: OUTCOMES OF ELDER CARE BY ADULT CHILDREN

The University Committee on Research Involving Human Subjects (UCRIHS) has completed their review of your project. I am pleased to advise you that your project has been approved.

The committee has found that your research project is appropriate in design, protects the rights and welfare of human subjects, and meets the requirements of MSU's Federal Wide Assurance and the Federal Guidelines (45 CFR 46 and 21 CFR Part 50). The protection of human subjects in research is a partnership between the IRB and the investigators. We look forward to working with you as we both fulfill our responsibilities.

Renewals: UCRIHS approval is valid until the expiration date listed above. If you are continuing your project, you must submit an *Application for Renewal* application at least one month before expiration. If the project is completed, please submit an *Application for Permanent Closure*.

Revisions: UCRIHS must review any changes in the project, prior to initiation of the change. Please submit an *Application for Revision* to have your changes reviewed. If changes are made at the time of renewal, please include an *Application for Revision* with the renewal application.

Problems: If issues should arise during the conduct of the research, such as unanticipated problems, adverse events, or any problem that may increase the risk to the human subjects, notify UCRIHS promptly. Forms are available to report these issues.

Please use the IRB number listed above on any forms submitted which relate to this project, or on any correspondence with UCRIHS.

Good luck in your research. If we can be of further assistance, please contact us at 517-355-2180 or via email at <u>UCRIHS@msu.edu</u>. Thank you for your cooperation.

Sincerely,

Peter Vasilenko, Ph.D. UCRIHS Chair

c: Debra Sietsema 901 Perry St SW Byron Center, MI 49315

MSU is an affirmative-action, equal-opportunity institution.

OFFICE OF RESEARCH ETHICS AND STANDARDS

University Committee on Research Involving Human Subjects

> Michigan State University 202 Olds Hall East Lansing, MI 48824

> > 517/355-2180 FAX: 517/432-4503

Web: www.humanresearch.msu.edu E-Mail: ucrihs@msu.edu

References

- Acton, C. J. (2002). Self-transcendent views and behaviors: Exploring growth in caregivers of adults with dementia. *Journal of Gerontological Nursing*, 28(12), 22-30.
- Adelmann, P. K. (1994). Multiple roles and psychological well-being in a national sample of older adults. *Journal of Gerontology: Social Sciences, 49*, S277-S285.
- Aranda, S., & Hayman-White, K. (2001). Home caregivers of the person with advanced cancer: An Australian perspective. *Cancer Nursing*, 24, 300-307.
- Archbold, P. G., Stewart, B. J., Greenlick, M., & Harvath, T. (1990). Mutuality and preparedness as predictors of caregiver role strain. *Research in Nursing and Health, 13*, 375-384.
- Archbold, P. G., Stewart, B. J., Miller, L. L., Harvath, T. A., Greenlick, M. R., Van Buren, L., Kirshling, J. M., Valanis, B. G., Brody, K. K., Schook, J. E., & Hagan, J. M. (1995). The PREP system of nursing interventions: A pilot test with families caring for older members. *Research in Nursing and Health*, *18*, 3-16.
- Atienza, A. A., Stephens, M. A., Townsend, A. L. (2002). Dispositional optimism, role-specific stress, and the well-being of adult daughter caregivers. *Research on Aging*, *24*, 193-217.
- Ayers, L. (2000). Narratives of family caregiving: The process of making meaning. *Research in Nursing and Health*, 23, 424-434.
- Barnett, R. C., & Baruch, G. K. (1985). Women's involvement in multiple roles and psychological distress. *Journal of Personality and Social Psychology*, *49*, 135-145.
- Beach, D. L. (1997). Family caregiving: The positive impact on adolescent relationships. *The Gerontologist*, *37*, 233-238.
- Bengtson, V. L., & Allen, K. R. (1993). The life course perspective applied to families over time. In P. G. Boss, W. J. Doherty, R. LaRossa, W. R. Schumm, & S. K. Steinmetz (Eds.), *Sourcebook of family theories and methods: A contextual approach* (pp. 469-499). New York: Plenum.
- Blenkner, M. (1965). Social work and family relationships in later life with some thoughts on filial maturity. In E. Shanas & G. F. Streib (Eds.), Social structure and the family: Generational relations (pp. 46-61). Englewood Cliffs, NJ: Prentice-Hall.

- Bowers, B. J. (1987). Intergenerational caregiving: Adult caregivers and their aging parents. *Advances in Nursing Science*, *9*(2), 20-31.
- Braithwaite, V. A. (2000). Contextual or general stress outcomes: Making choices through caregiving. *Gerontologist, 40,* 706-717.
- Bristor, M. W. (1990). *Individuals, families and environments*. Dubuque, IA: Kendall-Hunt.
- Brody, E. M. (1966). The aging family. The Gerontologist, 6, 201-206.
- Brody, E. M. (1970). The etiquette of filial behavior. *Aging & Human Development*, *1*, 87-94.
- Brody, E. M. (1978). The aging of the family. *Annals of the American Academy of Political & Social Science, 438*, 13-27.
- Brody, E. M. (1981). 'Women in the middle' and family help to older people. *The Gerontologist*, 21, 471-480.
- Brody, E. M. (1985). Parent care as a normative family stress. *The Gerontologist*, 29(4), 529-538.
- Brody, E. M. (1989). The family at risk. In E. Light B. D. Lebowitz (Eds.), *Alzheimer's disease treatment and family stress: Directions for research.* Washington, DC: National Institute of Mental Health.
- Brody, E. M. (1990). *Women in the middle: Their parent care years.* New York: Springer.
- Brody, E. M. (1992). Differential effect of daughters' marital status on their parent care experiences. *The Gerontologist*, 32, 58-67.
- Brody, E. M., & Schoonover, C. (1986). Patterns of parent care when adult daughters work and when they do not. *The Gerontologist, 26*, 372-381.
- Brubaker, T. H. (1990). Families in later life: A burgeoning research area. *Marriage & the Family, 52*, 959-981.
- Brubaker, T. H., & Brubaker, E. (1992). Family care of the elderly in the United States: An issue of relationship differences? In J. I. Kosber (Ed.), *Family care of the elderly: Social and cultural changes* (pp. 210-231). Newbury Park, CA: Sage.

- Bubolz, M. M., & Sontag, M. S. (1993). Human ecology theory. In P. G. Boss, W.
 J. Doherty, R. LaRossa, W. R. Schumm, & S. K. Steinmetz (Eds.), Sourcebook of family theories and methods: A contextual approach (pp. 419-448). New York: Plenum.
- Cartwright, J. C., Archbold, P. G., Stewart, B. J., & Limandri, B. (1994). Enrichment process in family caregiving to frail elders. *Advances in Nursing Science*, *17*(1), 31-43.
- Chang, C. F., & White-Means, S. (1991). The men who care: An analysis of male primary caregivers who care for frail elderly at home. *Applied Gerontology*, *10*, 342-358.
- Checkovich, T. J., & Stern, S. (2002). Shared caregiving responsibilities of adult siblings with elderly parents. *Human Resources*, *37*, 441-478.
- Cicirelli, V. G. (1983a). Adult children and their elderly parents. In T. H. Brubaker (Ed.), *Family relationships in later life* (pp. 31-46). Beverly Hills: Sage.
- Cicirelli, B. G. (1983b). Adult children's attachment and helping behavior to elderly parents: A path model. *Marriage & the Family, 45*, 815-825.
- Cicirelli, V. G. (1993). Attachment and obligation as daughters' motives for caregiver behavior and subsequent effect on subjective burden. *Psychology & Aging, 8,* 144-155.
- Cicirelli, V. G. (1994). Sibling relationships in cross-cultural perspective. *Journal* of Marriage and Family, 56, 7-20.
- Cohen, C. A., Gold, D. P., Shulman, K. I., & Zucchero, C. A. (1994). Positive aspects in caregiving: An overlooked variable in research. *Canadian Journal on Aging*, *13*, 378-391.
- Coward, R. T., & Dwyer, I. W. (1990). The association of relationship, sibling network composition, and patterns of parent care by adult children. *Research on Aging, 12*, 158-181.
- Dautzenberg, M., Diederiks, J., Philipsen, H., & Tan, F. (1999). Multigenerational caregiving and well-being: Distress of middle-aged daughters providing assistance to elderly parents. *Women & Health*, 29(4), 57-74.
- Dellmann-Jenkins, M., Hofer, K., & Chekra, J. (1992). Elder care in the 1990's: Challenges and supports for educating families. *Educational Gerontology*, *18*, 775-784.

- Duke University's Center for Demographic Studies. NLTCS based Research. Retrieved August 15, 2005 from http://nltcs.cds.duke.edu/research.htm.
- Dwyer, J. W., & Coward, R. T. (1991). A multivariate comparison of the involvement of adult sons versus daughters in the care of impaired parents. *Gerontology: Social Sciences, 46*, S259-S269.
- Dwyer, J. W., & Coward, R. T. (1992). *Relationship, families and elder care*. Newbury Park, CA: Sage.
- Dwyer, J. W., Henretta, J., Coward, R. T., & Barton, A. J. (1992). Changes in the helping behaviors of adult children or caregivers. *Research on Aging*, *14*, 351-375.
- Farran, C. (1997). Positives aspects of caring for elderly persons with dementia: A theoretical examination. *The Gerontologist*, *37*, 250-256.
- Farran, C., Keane-Hagerty, E., Salloway, S., Kupferer, S., & Wilken, C. (1991). Finding meaning: An alternative paradigm for Alzheimer's disease family caregivers. *The Gerontologist*, *31*, 483-489.
- Farran, C., Miller, B., Kaufman, J., & Davis, L. (1997). Race, finding meaning, and caregiver distress. *Journal of Aging and Health*, *9*, 316-333.
- Farran, C., Miller, B., Kaufman, J., Donner, E., & Fogg, L. (1999). Finding meaning through caregiving: Development of an instrument for family caregivers of persons with Alzheimer's disease. *Journal of Clinical Psyhcology*, 55, 1107-1125.
- Fingerman, K. L. (2001). A distant closeness: Intimacy between parents and their children in later life. *Generations*, 25(2), 26-30.
- Finley, N. J., Roberts, M. D., & Banham, B. F. (1988). Motivators and inhibitors of attitudes of filial obligation toward parents. *The Gerontologist, 28*, 73-78.
- Foley, K. L., Tung, H. J., & Mutran, E. J. (2002). Self gain and self-loss among African American and White caregivers. *Journal of Gerontology: Social Sciences, 57B*, S14-S25.
- Franks, M., & Stephens, M. (1996). Social support in the context of caregiving: Husbands' provision of support to wives involved in parent care. *Journal of Gerontological Nursing*, *51*, 43-52.
- Froberg, D., Gjerdingen, D., & Preston, M. (1986). Multiple roles and women's mental and physical health: What have we learned? *Women & Health*, *11*, 79-96.

- Given, C., Given, B., Stommel, M., Collins, C., King, S., & Franklin, S. (1992). The caregiver reaction assessment (CRA) for caregivers to persons with chronic physical and mental impairments. *Research in Nursing and Health*, 15, 271-283.
- Globerman, J. (1996). Motivation to care: Daughters- and sons-in-law caring for relatives with Alzheimer's disease. *Family Relations*, *45*, 37-45.
- Greenberger, H. (2003). Can burdened caregivers be effective facilitators of elder care-recipient health care? *Journal of Advanced Nursing*, *41*, 332-341.
- Guberman, N., & Maheu, P. (2002). Conceptions of family caregivers: Implications for professional practice. *Canadian Journal on Aging*, 21(1), 27-37.
- Haley, W. (1997). The family caregiver's role in Alzhemier's disease. *Neurology*, *48(S6)*, 25-29.
- Hanson, S. L., Sauer, W. J., & Seelbach, W. C. (1983). Racial and cohort variations in filial responsibility norms. *The Gerontologist*, 23, 626-631.
- Hasselkus, B. (1988). Meaning in family caregiving: Perspectives on caregiverprofessional relationships. *The Gerontologist, 28*, 686-690.
- Heinrich, M., Neufeld, A., & Harrison, M. J. (2003). Seeking support: Caregiver strategies for interacting with health personnel. *The Canadian Journal of Nursing Research*, *35*(4), 38-56.
- Henderson, J., & Gutierrez-Mayka, M. (1992). Ethnocultural themes in caregiving to Alzheimer's disease patients in Hispanic families. *Clinical Gerontologist*, *11*, 59-74.
- Hernandez, G. (1992). The family and its aged members: The Cuban experience. *Clinical Gerontologist*, *11*, 45-57.
- Hileman, J., Lackey, N., & Hassanein, R. (1992). Identifying the needs of home caregivers of patients with cancer. *Oncology Nursing Forum, 19,* 771-777.
- Hinrichsen, G., & Niederehe, G. (1994). Dementia management strategies and adjustment of family members of older patients. *The Gerontologist*, 34,95-102.
- Houde, S. C. (2001). Men providing care to older adults in the home. *Journal of Gerontological Nursing*, 27(8), 13-19, 54-55.

- Horowitz, A. (1985). Sons and daughters as caregivers to older parents: Differences in role performance and consequences. *The Gerontologist*, 25(6), 612-617.
- Hunt, C. K. (2003). Concepts in caregiver research. *Journal of Nursing Scholarship, 35*(1), 27-32.
- Ingersoll-Dayton, B., Neal, M. B., & Hammer, L. B. (2001). Aging parents helping adult children: The experience of the sandwiched generation. *Family Relations*, *50*, 262-271.
- Jenkins, J., & Karno, M. (1992). The meaning of expressed emotion: Theoretical issues raised by cross-cultural research. *American Journal of Psychiatry*, 149, 9-21.
- Jones, P. S., Jaceldo, K. B., Lee, J. R., Zhang, X. E., & Meleis, A. I. (2001). Role integration and perceived health in Asian American women caregivers. *Research in Nursing & Health, 24*, 133-144.
- Kasper, J., Steinback, U., & Andrews, J. (1990). Factors associated with ending caregiving among informal caregivers to the functionally and cognitively impaired elderly population. Johns Hopkins University: Baltimore, MD. [February]
- Kinney, J., & Stephens, M. (1989). Hassles and uplifts of giving care to a family member with dementia. *Psychology and Aging, 4*, 402-408.
- Kinney, J., Stephens, M., Franks, M., & Norris, V. (1995). Stresses and satisfactions of family caregivers to older stroke patients. *Journal of Applied Gerontology*, *14*(1), 3-21.
- Kramer, B. (1997a). Gain in the caregiving experience: Where are we? What next? *The Gerontologist*, 37(2), 218-232.
- Kramer, B. (1997b). Differential predictors of strain and gain among husbands caring for wives with dementia. *The Gerontologist*, *37*, 239-249.
- Kramer, B. J., & Kipnis, S. (1995). Eldercare and work-role conflict: Toward an understanding of relationship differences in caregiver burden. *The Gerontologist*, *35*, 340-348.
- Kurtz, M., Kurtz, J., Given, C., & Given, B. (1995). Relationship of caregiver reactions and depression to cancer patients' symptoms, functional states, and depression – A longitudinal view. Social Science and Medicine, 40, 837-846.

- Kurtz, M., Given, B., Kurtz, J., & Given, C. (1994). The interaction of age, symptoms, and survival status on physical and mental health of patients with cancer and their families. *Cancer*, *74*, 2071-2078.
- Langner, S. R. (1995). Finding meaning in caring for elderly relatives: Loss and personal growth. *Holistic Nursing Practice*, *9*(3), 75-84.
- Larrimore, K. L. (2003). Alzheimer disease support group characteristics: A comparison of caregivers. *Geriatric Nursing*, 24, 32-35, 49.
- Lawton, M. P., Kleban, M., Moss, M., Rovine, M., & Glicksman, A. (1989). Measuring caregiving appraisal. *Journal of Gerontology: Psychological Sciences, 44*(3), P61-P71.
- Lazarus, R., & Folkman, S. (1984). *Stress, appraisal, and coping.* New York: Springer.
- Lawton, M., Moss, M., Kleban, M., Glicksman, A., & Rovine, M. (1991). A twofactor model of caregiving appraisal and psychological well-being. *Journal* of Gerontology: Psychological Sciences, 46, P181-P189.
- Lawton, M., Rajagopal, D., Brody, E., & Kleban, M. (1992). The dynamics of caregiving for a demented elder among Black and White families. *Journal of Gerontology*, *47*, S156-S164.
- Lee, C., & Porteous, J. (2002). Experience of family caregiving among middleaged Australian women. *Feminism and Psychology*, 12(1), 79-96.
- Levine, C. (1999). The loneliness of the long-term care giver. *New England Journal of Medicine*, *340*, 1587-1590.
- Lieberman, M. A., & Fisher, L. (1995). The impact of chronic illness on the health and well being of family members. *The Gerontologist*, 35(1), 94-102.
- Lim, Y. M., Luna, I., Cromwell, S. L., Phillips, L. R., Russell, C. K., & de Ardon, E. T. (1996). Toward a cross-cultural understanding of family caregiving burden, *Western Journal of Nursing Research*, 18(3), 252-266.
- Louderback, P. (2000). What's happening: Elder care: A positive approach to caregiving. *Journal of the American Academy of Nurse Practitioners*, 12(3), 97-99.
- Marchi-Jones, S., Murphy, L., & Rousseau, P. (1996). Caring for the caregivers. Journal of Gerontological Nursing, 22(8), 7-13.

- Matthews, S. H., & Rosner, T. T. (1988). Shared filial responsibility: The family as primary caregiver. *Marriage and the Family, 50*(1), 85-95.
- McLeod, B. W. (1999). Caregiving: The spiritual journey of love, loss, and renewal. New York: Wiley.
- Miller, B., & Lawton, M. (1997). Symposium: Positive aspects of caregiving. *The Gerontologist*, 37(2), 216-217.
- Montgomery, R. J. V., Gonyea, J. G., & Hooyman, N. R. (1985). Caregiving and the experience of subjective and objective burden. *Family Relations, 34*, 19-25.
- Motenko, A. (1989). The frustrations, gratifications, and well-being of dementia caregivers. *The Gerontologist, 29,* 166-172.
- Mui, A. C. (1995). Caring for frail elderly parents: A comparison of adult sons and daughters. *The Gerontologist*, *35*, 86-93.
- National Alliance for Caregiving & American Association of Retired Persons (1997). *Family caregiving in the United States: Findings from a national survey.* Retrieved February 14, 2004 from <u>http://www.caregiving.org/final</u> <u>report.pdf</u>
- National Alliance for Caregiving & American Association of Retired Persons. (2004). *Caregiving in the U.S.* Washington, DC: author.
- Neal, M. B., Ingersoll-Dayton, B., & Starrels, M. E. (1997). Relationship and relationship differences in caregiving patterns and consequences among employed caregivers. *The Gerontologist*, *37*, 804-816.
- Nijober, C., Triemstra, M., Tempelaar, R., Mulder, M., Sanderman, R., & Van den Bos, G. (2000). Patterns of caregiver experiences among partners of cancer patients. *The Gerontologist*, *40*, 738-746.
- Nijober, C., Triemstra, M., Tempelaar, R., Mulder, M., Sanderman, R., & Van den Bos, G. (1999a). Measuring both negative and positive reactions to giving care to cancer patients: Psychometric qualities of the caregiver reaction assessment (CRA). Social Science and Medicine, 48, 1259-1269.
- Nijober, C., Triemstra, M., Tempelaar, R., Mulder, M., Sanderman, R., & Van den Bos, G. (1999b). Determinants of caregiving experiences and mental health of partners of cancer patients. *Cancer, 86,* 577-588.
- Oberst, M., Gass, K., & Ward, S. (1989). Caregiving demands and appraisal of stress among family caregivers. *Cancer Nursing*, *12*(4), 209-215.

- Parris Stephens, M. A., & Townsend, A. (1997). Stress of parent care: Positive and negative effects of women's other roles. *Psychology & Aging, 12*, 376-386.
- Pearlin, L. I., Mullan, J. T., Semple, S. J., & Skaff, M. M. (1990). Caregiving and the stress process: An overview of concepts and their measures. *The Gerontologist*, *30*, 583-594.
- Perry, J. (2004). Daughters giving care to mothers who have dementia: Mastering the 3 r's of (re)calling, (re)learning, and (re)adjusting. *Journal of Family Nursing*, *10*(1), 50-69.
- Peters-Davis, N. D., Moss, M. S., Pruchno, R. A. (1999). Children-in-law in caregiving families. *Gerontologist*, *39*(1), 66-75.
- Plowfield, L. A., Raymond, J. E., & Blevins, C. (2000). Wholism for aging families: Meeting needs of caregivers. *Holistic Nursing Practice*, 14, 51.
- Pohl, J. M., Boyd, C., & Given, B. A. (1997). Mother-daughter relationships during the first year of caregiving: A qualitative study. *Journal of Women and Aging*, *9*, 133-149.
- Pohl, J. M., Boyd, C., Liang, J, & Given, C. W. (1995). Analysis of the impact of mother-daughter relationships on the commitment to caregiving. *Nursing Research*, *44*(2), 68-75.
- Pohl, J. M., Given, C. W., Collins, C. E., & Given, B. A. (1994). Social vulnerability and reactions to caregiving in daughters and daughters-in-law caring for disabled aging parents. *Health Care for Women International*, *15*, 385-395.
- Polit, D. F., & Beck, C. T. (2004). *Nursing research: Principles and Methods*. Philadelphia: Lippincott, Williams, & Wilkins.
- Pot, A., Deeg, D., & van Dyck, R. (2000). Psychological distress of caregivers: Moderator effect of caregiver resources. *Patient Education and Counseling, 41*, 235-240.
- Price, S. J., McKenry, P. C., & Murphy, M. J. (2000). Families across time: A life course perspective. In S. J. Price, P. C. McKenry, & M. J. Murphy (Eds.). *Families across time: A life course perspective* (pp. 2-22). Los Angeles: Roxbury.
- Rapp, S., & Chao, D. (2000). Appraisals of strain and of gain: Effects on psychological well being of caregivers of dementia patients. *Aging and Mental Health, 4*, 142-147.

- Reece, D., Walz, T., & Hageboeck, H. (1983). Intergenerational care providers of non-institutionalized frail elderly: Characteristics and consequences. *Journal of Gerontological Social Work, 5*(3), 21-34.
- Riedel, S. E., Fredman, L., & Langenberg, P. (1998). Associations among caregiving difficulties, burden, and rewards in caregivers to older post-rehabilitation. *Journal of Gerontology*, *53B*(3), 165-174.
- Robinson, K. (1997). The family's role in long-term care. *Journal of Gerontological Nursing*, 7-11. [September]
- Rollins Bohannon, J., & White Blanton, P. (1999). Gender role attitudes of American mothers and daughters over time. *Journal of Social Psychology*, *139*, 173-179.
- Schulz, R., & Beach, S. R. (1999). Caregiving as a risk factor for mortality: The caregiver health effects study. *Journal of the American Medical Association, 282,* 2215-2219.
- Schulz, R., Visintainer, P., & Williamson, G. M. (1990). Psychiatric and physical morbidity effects of caregiving. *Journal of Gerontology*, *45*(5), 181-191.
- Select Committee on Aging, Subcommittee on Human Services. (1987). *Exploding the myths: Caregving in America* (Publication No. 99-611). Washington, DC: U.S. Government Printing Office.
- Spitze, G., Logan, J.R., Joseph, G., & Lee, E. (1994). Middle generation roles and the well-being of men and women. *Journal of Gerontology: Social Sciences, 49*, S107-S116.
- Starrels, M. E., Ingersoll-Dayton, B., Dowler, D., & Neal, M. B. (1997). The stress of caring for a parent: Effects of the elder's impairment on an employed adult child. *Journal of Marriage & the Family, 59*, 860-872.
- Stein, C. H., Wemmerus, V. A., Ward, M, & Gaines, M. (1998). "Because they're my parents": An intergenerational study of felt obligation and parental caregiving. *Journal of Marriage & the Family, 60*, 611-622.
- Stephens, M. A., & Franks, M. M. (1995). Spillover between daughter's roles as caregiver and wife: Interference or enhancement? *Journals of Gerontology*, *50B*, 9-17.
- Stoller, E. P. (1983). Parental caregiving by adult children. *Marriage & the Family, 45*, 851-858.

- Stoller, E. P. (1990). Males as helpers: The role of sons, relatives and friends. *The Gerontologist, 30*, 228-235.
- Stoller, E. P., & Pugliesi, K. L. (1989). Other roles of caregivers: Competing responsibilities or supportive resources. *Journal of Gerontology: Social Sciences, 44*, S231-S238.
- Stoller, E. P., & Pugliesi, K. L. (1991). Size and effectiveness of informal helping social networks: A panel of older people in the community. *Journal of Health and Social behavior*, 32, 180-191.
- Stone, R., Cafferata, G. L., & Sangl, J. (1987). Caregivers of the frail elderly: A national profile. *The Gerontologist*, 32(5), 616-626.
- Suitor, J. J., & Pillemer, K. (1994). Family caregiving and marital satisfaction: Findings from a 1-year panel study of women caring for parents with dementia. *Marriage & the Family, 56*, 681-690.
- Suitor, J. J., & Pillemer, K. (1996). Sources of support and interpersonal stress in the networks of married caregiving daughters: Findings of a 2-year longitudinal study. *Journals of Gerontology*, *51B*, 297-306.
- Suwa, S. (2002). Assessment scale for caregiver experience with dementia. Journal of Gerontological Nursing, 28(12), 2-12.
- Tennstedt, S. (1999). *Family caregiving in an aging society*. Retrieved February 14, 2004 from <u>http://www.aoa.dhhs.gov/caregivers/FamCare.html</u>
- United States Administration Agency on Aging. (2004). Older Americans 2000: Key indicators of well-being. Retrieved April 17, 2004 from <u>http://agingstats.gov</u>.
- U.S. Senate Special Committee on Aging. (1992). *Aging America: Trends and projections*. Washington, DC: U.S. Government Printing Office.
- U.S. Senate Special Committee on Aging. (2004). *Families helping families: Tax relief strategies for elder care*. Washington, DC: U.S. Government Printing Office.
- Waldron, I., & Jacobs, J. A. (1989). Effects of women's multiple roles on women's health: Evidence from a national longitudinal study. *Women & Health, 15*, 3-19.
- Walker, E., & Jane Dewar, B. (2001). How do we facilitate carers' involvement in decision making? *Journal of Advanced Nursing*, *34*, 329-337.

- Ward-Griffin, C., & McKeever, P. (2000). Relationships between nurses and family caregivers: Partners in care? *Advances in Nursing Science*, 22(3), 88-103.
- Weitzner, M., Jacobsen, P., Wagner, H., Friedland, J., & Cox, C. (1999). The caregiver quality of life index-Cancer (CQOLC) scale: Development and validation of an instrument to measure quality of life of the family caregiver of patients with cancer. *Quality of Life Research*, *8*, 55-63.
- Westbrook, G. J. (1989). Working caregivers: Experienced workforce employees quit to care for elderly relatives. *Continuing Care, 8* (7), 9-26.
- Wilcox, S., O'Sullivan, P., & King, A. C. (2001). Caregiver coping strategies: wives versus daughters. *Clinical Gerontologist*, 23, 81-97.
- Ziemba, R. A. (2002). Factors influencing the preparedness of adult daughters for taking care of elderly parents. Ann Arbor: UMI Dissertations Publishing.

