HOUSING AND THE ELDERLY: MAKING THE TECHNOLOGICAL TRANSITION

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I. INTRODUCTION

This paper will examine selected characteristics pertaining to the housing of the `frail' elderly population in New Brunswick. The data are taken from a survey on a provincial random sample of frail elderly living in the community during the months of May to October, 1987. The term `frail' refers to those elders 65 years of age or older, who are dependent on others to assist them with one of their basic needs (eg., feeding, bathing, dressing, walking, and transportation). The responses cover topics pertaining to elders' functioning levels, perceived health status, life satisfaction and other descriptive characteristics. Specific attention is focused on issues related to housing and living arrangements of elders living in publicly subsidized housing, private apartments and private homes. The implications drawn from these findings stress the impact of the residential environment on the well-being of elders and their informal caregivers.

1.1 <u>Demographic Background</u>

In 1986, New Brunswick's total population was 710,422, of which 11.1% or 78,740 individuals were aged 65 and over (Statistics Canada, 1987). The number of individuals aged 65 and over has been increasing over the years and will continue to do so. From 1976 to 2006, individuals over the age of 65 will have increased as a proportion of the total population from 9% to 13.1%. More specifically, during 1991

to 2001, the total population of individuals 65+ will increase by almost 8,000. The number of individuals 65 to 74 will decrease by over 2,000 while the number of individuals over the age of 85 is expected to increase by almost 60%, from 8.7 thousand to 13.6 thousand (Statistics Canada, 1987).

In the past, health care practice has tended to focus on individuals age 65 and over; however, the bulk of services are actually required by individuals who are 15-20 years older (ie., individuals over the ages of 80-85). fact, Canada is a leader in terms of the growth of seniors aged 80 and over (Canada Seniors, 1988). Demographic data indicate that the aged population is increasing and will be more and more composed of elderly, frail females. Women in the 80+ age bracket currently outnumber men by more than two to one (Canada Seniors, 1988). In terms of marital status, the majority of males are married (76%) and the majority of females are single (60%) and tend to live alone (Statistics Canada, 1984). In 1981, the number of women over the age of 65 living alone was over three times that of males living alone (1984). Predictive statistics suggest that older men will continue to be married and cared for by their spouse or family in their own home. In marked contrast, women who are widowed or never married will increasingly live alone and will require community services and long-term residential care (Health and Welfare Canada, 1988).

If the trends depicting these unique characteristics of the elderly population are accurate, this 85+ subgroup of elderly in New Brunswick may become particularly vulnerable to issues regarding the availability and effectiveness of services designed to maintain independence as long as possible.

1.2 <u>Housing Characteristics</u>

The National Seniors Housing Consultation has expressed the major concerns of seniors related to housing issues. In summary, seniors want to be actively involved in choosing and planning housing programs that are accessible, adaptable, affordable, and sensitive to quality of life issues. Also, elders are looking for programs or alternative ways that allow them to maintain their independence in the community as long as possible. From this report representing the voice of seniors across Canada, it is obvious that housing has come to mean more than the mere physical structure itself.

More specifically, housing is an issue of major concern to the elderly in New Brunswick for various reasons. The majority of elderly in New Brunswick live in private homes (93% male/90% female). This holds even for the majority in the 85+ age bracket (71% male/59% female). The equity built up in a private dwelling is the major source of wealth for the elderly accounting for almost half of the homeowners

/assets (Frazer, 1982). For some, the private home is what has shaped and continues to shape their identity.

The physical maintenance of a private home is a major concern for the elderly, especially those living in rural areas. It has been reported that seniors living in rural areas are more likely to live in substandard housing compared to nonseniors (Corbett, 1990).

For those living in urban areas in 1982, 27% of the renters in New Brunswick were elderly individuals who were experiencing problems with crowding, inadequacy and affordability of housing (Housing in New Brunswick, 1985).

For these reasons, the interaction between the elder and his/her housing environment has now become a major focus in the literature on housing for the elderly.

Gerontologists have attempted to offer theoretical explanations as to why and how the residential environment has affected elders well-being. The next section of this paper will elaborate on the current theories and research being done in this area.

1.3 Current Research on Housing

Aging is a complex and varied experience, influenced by the physical and social environment as well as the personal characteristics of the individual. Several aspects of the physical and social environment are linked to the quality of life of older people, as reflected in their subjective feelings of well-being. A number of studies indicate that the type of housing and the nature of living arrangements make significant contributions to global satisfaction (Christenson & Carp, 1987; Schooler, 1970; Smith & Lipman, 1972, Teaff et al., 1978; Wolk & Telleen, 1976; Jirovec et al., 1984; Duffy & Willson, 1985).

Gerontologists have shown particular interest in whether elders morale and life satisfaction is influenced by the quality of the residential environment as measured by structural and subjective indicators (Golant, 1984). Studies have documented a relationship between specific structural housing characteristics and residential satisfaction. Within this branch of research, size and modernness of the housing unit, the presence of central heating, lighting, ventilation etc. have emerged as central determinants of housing satisfaction among urban elderly (Lawton et al., 1978; Lawton et al., 1975). Subjective dimensions of housing satisfaction include perceived safety, ambience, aesthetic appeal, and the attachment elders have to their homes, especially for elderly homeowners compared to renters (O'Bryant & Wolf, 1983).

Research reveals that the fit between the individual and the environment may be even more critical to the social and mental health of the elderly than the younger population. In old age, the occupied residential dwelling represent an especially salient and positively valued component of an individuals everyday environment (Golant,

1982). Older adults may be especially sensitive to environmental characteristics of their residential milieus due to reduced coping resources (Christenson & Carp, 1987), and restricted mobility resulting in shrinking life space (Birren, 1969). Because of this heightened vulnerability, the elderly represent a pertinent target population for studying vital linkages between objective and perceived residential quality.

The unique environment-behavior relationship for the elderly is complex however, and environmental satisfaction is not simply a function of the features of the external environment (Kahana, 1982; Golant, 1984). Rather, the psychological and physical state of the person experiencing these features is expected to be critical. Environmental satisfaction results from a complicated process involving ecological, biological, psychological and social components. With respect to the social component, Lawton has demonstrated the importance of the interpersonal milieu in which the elderly individual is embedded. interpersonal environment is made up of social networks that make up the basic affective and instrumental ties between person and society (Ward et al., 1988). Corresponding research has revealed that residential satisfaction is largely a function of macro environmental conditions (i.e., importance of the neighbourhood) as opposed to the micro

environmental conditions such as housing arrangement (Jirovec, Jirovec & Bosse, 1984).

According to Lawton's ecological model of the environment and aging, aging occurs in the context of this human ecosystem comprised of the interpersonal, social and suprapersonal environment. The social environment consists of norms and values operating in the individual subgroup, society or culture. The suprapersonal environment refers to the population characteristics of a residential area, the geography of the larger local community. Each component of this ecosystem relates to the issues of quality of life or subjective well-being (Altman, Lawton, & Wohlwill, 1984; Lawton, 1986; Lawton & Nahemow, 1973; Ward et al., 1988). In an attempt to explain the link between the residential environment and psychological well-being, Lawton has suggested three functions of the residential environment that enhance well-being: stimulation, maintenance and support. While these functions characterize the use of the residential environment by all people, they are especially relevant to elders because biological and social aging may cause redefinitions of personal needs and corresponding realignments of the transactions between person and environment (Lawton, 1989). The usefulness of this model lies in the ability to conceptualize the dynamic relationship between individual competence, which is often declining in the elderly, and the kind of environment (ie.

housing conditions) needed to optimize functioning. With this in mind, the present paper will discuss findings describing selected characteristics pertaining to the housing conditions of a random sample of frail elderly in New Brunswick. These findings will be compiled to develop comprehensive profiles of older persons living within specific housing situations in the community (eg., private home, subsidized apartment etc.). Such analyses will provide a much needed basis for forecasting and providing future housing needs among the growing cohort of elderly individuals (Foot, 1982).

1.4 Research Objectives

Apart from the descriptive information previously outlined, little is known about the overall housing situation of the aged in New Brunswick. More information is needed to examine the relationships between characteristics such as specific housing arrangements, with income, housing repair, living arrangements, the use of informal and formal care services, the health status, functional level, and quality of life of elderly individuals.

This paper will examine housing data as well as additional subjective characteristics of a random sample of elderly and their caregivers in New Brunswick. The research objectives have been outlined as follows:

(1) To present a profile of the actual housing and living

arrangements of this random sample of frail elderly in New Brunswick;

- (2) To examine the relationships between housing and living arrangements with selected characteristics of the elderly and their caregivers;
- (3) To assess whether different environmental conditions exist for specific elderly subpopulations.

II. METHOD

2.1 Sample

This research was carried out in the province of New Brunswick. The study sample was drawn from the New Brunswick Medicare Registry which contains the vital statistics of all the people in the province. According to Statistics Canada (1981) there were 70,460 people in New Brunswick 65 years of age and older.

A random sample of 3,000 persons was drawn systematically from the medicare files (65 years of age or older as of January 1, 1987).

A screening instrument, in letter form, outlining the nature of the project and containing eligibility criteria was forwarded to the study population. The elders were asked to determine their interest in participating in the project through a prestamped, self-addressed response instrument. Following interviews with 20 elders and 15

caregivers, minor adjustments were made to the elder and caregiver self screening instruments.

Of the three thousand elders to whom the selfscreening instrument was mailed, 461 or 16.2% responded. This is an encouraging response from the elderly community considering their restricted functioning. Thirty-two of the respondents were disqualified as they were living in a noncommunity setting (eq., nursing home, special care home, hospital). Only 11 of the elders refused to participate in the study, while 123 of the study population could not be located because they had moved to an unknown address. Thirty-two members of the study population were deceased. Of the elders agreeing to participate in the study, 99 or 26% were not frail and did not qualify. This is not to suggest they were without problems. Rather, they were functioning independent of formal and informal care. of the elders refused to specify his/her primary caregiver, and all of the caregivers agreed to be interviewed.

Demographic data indicated that the patterns in this random sample were congruent with comparisons made with national data on the elderly population. Descriptive information was consistent with other statistics, both provincial and national. Thus, there appeared to be no obvious bias in the sample. One difference was worth noting however. The sample contained more married couples than

those reported by Statistics Canada. A possible explanation could include the fact that the elderly have failed to report changes in marital status.

2.2 <u>Instrumentation</u>

Three types of variables were selected for analyses in this study: 1) socio-demographic respondent characteristics; 2) subjective indicators of well-being and social support; and 3) objective indicators of housing and living arrangements.

2.3 Demographic Characteristics

The demographic characteristics included in this analyses were age, sex, marital status, location of home (urban, rural), language, housing and living arrangement. Measures of socio-economic status included education, income, and employment status.

2.4 Subjective Indicators

Following is a description of the instruments that were included in the survey to measure the subjective information regarding the social networks and the overall well-being of the elderly sample.

2.5 <u>Functional Level</u>

The Katz Index of Activities of Daily Living (ADL) and the Instrumental Activities of Daily Living (IADL) are the best known and most carefully structured tests of functioning levels (Kane & Kane, 1981). For the ADL, an elder is considered dependent on the following six

functions: transfer/walking, dressing, bathing, toiletting, eating/feeding, and incontinence. The IADL measured functioning as follows: transportation, housework, laundry, medications, shopping, meal preparation, money management, and telephoning.

2.6 Perceived Health Status

For the purpose of this study, the General Subjective Self-Health Ratings instrument was used to test the health status of the elderly respondents. Respondents were asked to rate their overall health at the time of the interview as well as to rate his/her health relative to other people of the same age. Finally, they were asked to indicate what health problems bother them most.

2.7 Life Satisfaction

General psychological well-being and morale were assessed by applying the eighteen-item Life Satisfaction Index (LSI). This particular version was developed by Wood, Wylie, and Sheafor (1969). This instrument has been tested for both reliability and validity in both rural and urban environments (Adams, 1969). Cronbach alphas between .74 and .84 were reported for the LSI by Himmelfarb and Murrell (1983). The scoring system consists of applying two points for each affirmative response and one point for each uncertain response. Negative responses are given a zero score.

2.8 Memory and Orientation

The Short Portable Mental Status Questionnaire (SPMSQ) (Duke University, 1978) was used to test the elder's memory and orientation. It is part of the larger Older Americans Research and Service Center Instrument (OARS), a multidimensional structured tool for community-based assessments. The SPMSQ consists of ten questions that examine the elder's remote memory, practical survival skills, and mathematical ability. The test is scored by applying one point for a correct response and zero for an incorrect reply. Some minor revisions to this instrument were necessary to make the instrument applicable to the New Brunswick environment (eg., the question relating to the President of the United States was changed to read the Prime Minister of Canada).

2.9 Social Support

Two methods were used to measure social support in this study. The network dimensions included nine network characteristics, four morphological and five interactional characteristics which were examined individually and collectively to determine their effects on informal care. These were developed by Mitchell and McKinley (1979) to describe the informal caregiving process.

The second method of measurement used was a scale developed by Lubben (1984). The Lubben measure arose out of a study of assessment tools in a large multi-purpose seniors' service project in California. It was tailored for

a frail population. The social network in this scale was composed of an equally weighted sum of eight aspects of social networks. These were 1) marital status, 2) living arrangements, 3) number of peers seen at least monthly, 4) number of children and distant relatives seen at least monthly, 5) frequency of social contact, 6) nature of any confidant relationships, 7) number of people to whom the elder feels close, and 8) whether the respondent is relied on by others for help of any kind. The Lubben measure is continuous and ranges from 0 to 8. Higher scores imply greater social connection. The Cronbach alpha is satisfactory at .72.

Housing arrangements consisted of both housing conditions and arrangements as well as information concerning the co-residents of the respondents. The objective variables examined were housing arrangement: (1) publicly subsidized housing, (2) private apartment, and (3) private home owners; living arrangement: (1) alone, (2) with someone else; and housing conditions: (1) need for repairs over past six months, and (2) the ability to make repairs if needed.

III. PROCEDURE

Elders and their caregivers were interviewed in their own homes using face-to-face data collection instruments. Interviews with the elders' caregivers were conducted face-to-face and by

telephone. The elders' and the caregivers' survey instruments were tested formally and informally, Informal evaluation consisted of applying the instrument to several accessible frail and non-frail elders. In addition, the questionnaires were reviewed by a panel of professionals engaged in the gerontology field. Finally, the instruments and information collected were subjected to a formal examination through a sampling of the total study population.

IV. DATA COLLECTION

Data were collected from May through October 1987. Two separate and distinct instruments were developed in gathering the demographic and social network data from the elders and their primary caregivers. The interview schedules appear in Appendix A and B. The interviews varied from one to two and one half hours in length, the average time being one hour and forty minutes. The caregiver interviews required less time and were completed in about one hour. Three interviewers were employed to assist the principal researcher in the project. All had professional degrees and were experienced in working with the elderly. The surveying activities were divided geographically and according to the language preference of the elder.

V. ANALYTIC TECHNIQUES

Several forms of statistical analyses were used in presenting the results. Simple bivariate relationships were analyzed through the use of contingency tables, correlation coefficients, and analysis of variance. The Statistical Package for the Social Sciences (SPSSX) was utilized to perform the appropriate statistical procedures.

Analyses reported generally utilized all available data for all respondents. Subgroups analysis represent some reduction in sample size for specific analysis. Therefore, sample sizes are noted in the relevant Figures. It should be noted that extensive subgroup analysis in a large sample runs the risk of uncovering random variation in patterns of associations. Such analyses should be viewed as exploratory.

VI. RESULTS

6.1 Socio-Demographic Profile

The socio-demographic profile of the study population (N=3000) is equated with that of the general population of New Brunswick (see Figures 1, 2, and 3). While the sample yielded a higher percentage of married couples than that recorded by Statistics Canada for New Brunswick, the age and gender distribution are statistically similar.

The mean age of the elder participants was 79.6 years of which 63.6% were females (see Figure 4). Sixty-five of the respondents were over the age of 75 years while 20.3%

were 85 years of age or older. Three of those interviewed were 100 years or older. Of those interviewed, 44.9% (n=285) were married and 39.6% were widowed. Of those widowed 40.6% were female (see Figure 5).

Most elders in the study were dependent on Old Age
Security and the Guaranteed Income Supplement as their
primary source of income. Fifty-five percent of the study
population were receiving nearly \$7,000 a year, considerably
below the standard poverty level for Canadians. Less than
10% of the elders had incomes in excess of \$15,000 per year
(see Figure 6).

6.2 Profile of Housing and Living Arrangements

A profile of housing and living arrangements was created based on survey data drawn from the random sample of 285 elderly and their caregivers in New Brunswick. The housing profile is summarized in Figures 7 to 10.

The majority of elderly (61.9%) lived in private homes and had lived in their homes for an average of thirty years. Thus, this study reflected a high home ownership by elders in New Brunswick. The second largest housing group included the elderly living in subsidized housing at 13.4%. The third largest housing group included those living in private apartments (11.6%). Perhaps more elderly in New Brunswick than any other province in Canada own their own home. A more equitable distribution of the elder population living

in rural areas is the probable cause of this characteristic (Hickey, 1987).

The study also revealed the high number of properties that required maintenance and the inability of the elders to complete the necessary repairs to their home. Fifty-three percent stated their home required repairs in the past six months.

Ninety-four percent felt they were unable to make any minor repairs to their homes. Ninety-four percent in need of repairs were reported by private homeowners whereas elderly in the subsidized and private apartments reported three percent and two percent respectively (see Figure 8).

Contrary to expectations, those with lower incomes reported less problems with household maintenance (see Figure 9).

This could be explained by the fact that higher income elderly are more likely to own their own homes.

The surprising number of elders with self-owned homes in rural areas provoked considerable concern for deficiencies in housing services (see Figure 10).

Elders were not knowledgeable about housing services or how to access existing services. Although most elders were sensitive to and anxious about maintaining the quality of their home, few were conscious of the barriers imposed by the physical design features of their homes. Other than the assistive devices present in subsidized apartments, most homes were not equipped with supportive features such as

handrails or ramps in critical areas such as the toilet, bathtub and bedroom. In fact, many homes were hostile to the elders attempts to remain self sufficient.

The percentage distributions of living arrangement and conditions are displayed in Figures 11 and 12 respectively. The majority of elderly in this sample are living with someone else (66.2%) compared to the 33.8% living alone. Of those who live with someone else, the majority 40.4% live with their spouse while approximately 13.7% reside with their children. Regarding co-residents, 25.8% were found living in households with persons other than a spouse.

With respect to length of occupancy, the average number of years in a permanent residence is 30.5 years. In terms of those having to change residences within the last year, 10 subjects made voluntary moves and 5 were forced to move. Inadequate follow-up information exists to determine the housing location of the recent moves. Further research is needed to track the housing choice and mobility patterns of healthy elderly as they get older.

6.3 <u>Profile of the Relationship Between Housing Arrangement and Respondent Characteristics</u>

Housing variables were examined in further detail in the following analyses to determine group differences. An attempt was made to describe the distinguishing characteristics of the elderly residing in the following housing arrangements: publicly subsidized housing, private apartments and private homes.

6.3.1 Publicly Subsidized Housing

The results of this study suggest that the elders living in publicly subsidized housing are more likely to be female, widowed, poorer, in need of less household repairs, receive more homemaker services and live alone in urban areas. Figure 13 demonstrates the significant relationship between housing and living arrangements controlling for income. Findings indicate that housing and living arrangements differ significantly by income such that low income elderly (less than \$10,000) are more likely to live alone than with someone else in publicly subsidized housing. No significant difference was obtained between housing arrangement and living arrangement in the higher income bracket.

Further analyses were conducted to determine whether this significant relationship was maintained between housing arrangement and living arrangement after controlling for age (see Figure 14).

The results indicated that elders in publicly subsidized housing were significantly more likely to live alone than live with someone else in all three age groups, especially in the 85+ age bracket. Thus, more elderly in publicly subsidized housing are living alone even when age and income are statistically controlled.

In terms of location, the percentage distribution in Figure 8 demonstrates a significant relationship between housing arrangement and location such that there was more publicly subsidized housing in urban centres (20.2%) as opposed to 2.7% in rural areas. No significant relationship was found between housing arrangement and language. In terms of gender differences, the percentage distribution in Figure 15 shows more females than males living in the publicly subsidized housing.

Figure 16 displays the distribution of marital status by housing arrangement. Elderly in private homes were significantly more likely to be married. In contrast, the elderly in private and subsidized apartments were more likely to be either divorced, never married, or widowed.

As Figure 8 illustrates, the relationship between housing arrangement and housing conditions was significant. Fewer elders (23.6%) reported the need for repairs in the publicly subsidized housing as opposed to the 93.3% needing repairs in private homes.

6.3.2 Private Apartment

Within the data base of the current study, the profile for elderly in private apartments was similar to the profile for the publicly subsidized housing in that the private apartment residents were more likely

to be female, to be widowed in the 65-84 age group, to need less household repairs, and to live alone in an urban environment.

The differences between private apartment and subsidized housing were illustrated in Figure 16. Elders in private apartments were more likely to live alone in the 65-84 age groups similar to the subsidized seniors. However, the major difference occurs for seniors 85 and over who were more likely to live with someone than live alone in private apartments. This is in contrast with the finding that seniors in subsidized housing were more likely to live alone. In addition, data from the caregiver survey suggests that a greater percentage of caregivers for seniors in private apartments were considering nursing home placement at the time of the survey (see Figure 17). To more fully understand this difference, a one-way ANOVA was performed to determine the relationship between elders housing arrangement and indicators of well-being. this analysis, the private apartment category was broadened to include elders living in a room in the house of a relative, separate quarters attached to the house of a relative, and in a boarding or rooming Table 1 demonstrates a statistically house. significant group difference (F=4.62, p<.01) when the IADL was used as the indicator of functional level.

According to this analysis, elders living in private apartments were more frail than those living in subsidized housing or private homes. Thus, it may be that this subpopulation of elders 85 and over are at risk due to their advanced age and limited functioning level.

6.3.3 Private Homes

Elderly living in private homes, according to this sample, were likely to be male, married, living with a spouse or children, have a higher income (+\$10,000), and reside in a rural environment. In addition, the elderly in private homes reported a greater need for household repairs in the past six months (see Figure 10).

Further analyses were conducted using a one-way ANOVA to determine the relationship between housing arrangement, income and years lived at a permanent address. As expected, Table 2 shows a statistically significant difference between groups in that elders in private homes lived on average 30 years at the same address compared to the average of 9 years in the publicly subsidized and private apartments (F=41.16; p<.001). Table 3 shows that the groups were statistically significant F=11.27, p<.001. Elders in private homes have higher incomes (+\$10,000) as

compared to the publicly subsidized and private apartment tenants.

VII. SUMMARY, ISSUES AND CONCLUSIONS

7.1 Profile Overview

The respondent characteristics of age, marital status, gender, income, housing conditions and living arrangements all emerge as key variables associated with housing arrangements. Overall, elders in private homes are more likely to be married, to have lived in their current residence for a longer duration and to have a higher income than those in private apartments or subsidized housing. Elders in subsidized housing tend to live alone. As age increases, the likelihood of living alone in a subsidized housing arrangement increases whereas those in private apartments or homes are more apt to live with someone else as they get older. Surprisingly, it is not the elders over 85 who live alone in the subsidized housing that are the most frail. Rather, it is the over 85 elders living with others in the private apartment that report poor functional levels in terms of the instrumental activities of daily This research identifies 85+ elders living in private apartments as a potentially vulnerable subgroup that has received little attention in the current literature on housing and the elderly. Further research is needed to investigate the needs of this specific subgroup of elders

residing in private apartments in New Brunswick communities.

7.2 Future Directions

The results of this study suggest a need to focus on two major areas involved in the subsequent planning, design or implementation of housing programs for seniors in New Brunswick. The first area centers around the 85+ age group of elderly living with others in private apartments. group has been described as lower functioning in terms of the instrumental activities of daily living than elders living in private homes or subsidized housing. The data appear to dispel the common misconception that elderly living alone are the most frail. Because of this decreased functioning level, this particular subgroup of elderly individuals may be exhausting the informal care networks available to them (eg., spouse or other family members living in the same home). This, in turn, could place increasing demands on the formal care system. For example, the results of this study demonstrated a greater number of caregivers considering nursing home placement for elders in the private apartments. Further research is needed to discover more specific characteristics of the elders residing in private apartments, boarding homes and in rooms Even though the number of elders in this with relatives. type of housing arrangement may be smaller than the number of private homeowners in the province, the overall burden

placed on the caregiving systems by this subgroup may be very significant.

The second major issue addressed in this study involves the conflict experienced by the majority of elders in New Brunswick who are private homeowners living in rural areas. As this study indicates, most private homeowners have been residing in their homes for an average of thirty years. During this time, the meaning of "home" has been enhanced to include the surrounding neighbors and become the center for security, activities and relationships (Danermark & Ekstrom, 1990). In addition, the home is likely to be the major financial resource for elders. Despite these attachments, the private homeowner is often faced with the responsibility of household maintenance. Once the senior reaches the 85+ age bracket, these demands for repair become increasingly difficult.

A critical— and often overlooked— issue concerning the residential environment and the well—being of elders is the technological advances available to compensate for the increased frailty existing within target subgroups of elderly. Such advances have the potential to produce positive consequences in the lives of seniors and their caregivers. These technological advances could provide a reduction of physical demands associated with tasks, facilitation of communication, compensation for infirmities, additional linkage to the outside world, and

increased safety (Czaja & Barr, 1989). Some specific inexpensive devices that provide assistance include can openers that can be managed by arthritic hands, grab bars in bathrooms, lighted treads on stairs, slip-proof bathtubs among many others. More elaborate devices such as computer technology and telecommunication devices designed to activate security systems are now being used by elders in their own homes. These devices provide elders with options for recreation, to continue education, and to enhance their ability to live safely in their own homes.

Elders limited use of supportive devices is reason for concern. Elders are either not aware of such technologies or are not convinced of their usefulness to them. Assistive technologies are available to aid walking, hearing and vision. In the near future, these technologies will include programmable wheelchairs, voice-activated computer control centers, and robots that aid in the performance of tasks such as meal preparation (Czaja & Barr, 1989).

In summary, the increased demands on both the informal and formal care system could be reduced by 1) an increased awareness of what technological advances exist for the elderly; and 2) an increase in accessibility of these devices, especially within the target 85+ age bracket.

Before this can be accomplished, further research is needed to identify and test the effectiveness of specific technological innovations designed to improve the quality of

life of the elderly and decrease caregiver burden in the vulnerable subpopulations of elderly individuals.

7.3 Conclusions

The survey results provide an overview of the respondent characteristics associated with the current housing and living arrangements of seniors in New Brunswick. From this research, it is possible to identify specific subgroups of elderly individuals who are more vulnerable to the negative effects of aging due to their current housing and living conditions. As our population ages, the housing needs of the elderly will continue to expand both absolutely and relative to the rest of the population. It is of basic importance that we recognize that the identification of elders characteristics is the first step in developing housing alternatives.

The older population differs in many ways from the younger population. Furthermore, elders differ widely in themselves. They do not constitute a simple subpopulation that can serve as a basis for housing services.

Nevertheless, some general trends of changes in functioning ability with increasing frailty are apparent. Changes in physical agility and flexibility, visual, audio functioning and cognition call to the development of technological interventions that can enhance rather than inhibit elders functioning. Further research is required to identify ways of making information on housing rehabilitation programs as

well as design technologies available to elders and their carregivers. Exterior and interior enhancements are likely to compensate for the losses experienced by elders and help improve their quality of life. The environment plays a major role in determining the number of activities an elder will be able to complete independently. Maximizing the environments ability to support elders remaining abilities to carry out their daily activities while augmenting their well-being is the challenge for us.

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TABLES

ANALYSIS OF VARIANCE OF ELDERS' HOUSING ARRANGEMENT AND INSTRUMENTAL ACTIVITIES OF DAILY LIVING (N=279)

Group	Count	Mean	Standard Deviation	Standard Error
Publicly Subsidized Housing	38	24.86	8.10	1.31
Private Apartment	65	28.23	9.69	1.20
Private Home	176	24.03	9.71	.73
Total	279	25.12	9.63	. 57

F Ratio 4.62

F Prob .01

Table 2

ANALYSIS OF VARIANCE OF ELDERS' HOUSING ARRANGEMENT AND YEARS IN PERMANENT RESIDENCE (N=279)

Group	Count	Mean	Standard Deviation	Standard Error
Publicly Subsidized Housing	38	9.05	10.42	1.69
Private Apartment	65	9.04	13.09	1.62
Private Home	176	30.35	21.89	1.65
Total	279	22.48	21.48	1.28

F Ratio 41.16

F Prob .001

ANALYSIS OF VARIANCE OF ELDERS' HOUSING ARRANGEMENT AND INCOME (N=279)

Group	Count	Mean	Standard Deviation	Standard Error
Publicly Subsidized Housing	38	.39	.49	.08
Private Apartment	65	.38	.49	.06
Private Home	176	.67	.47	.03
Total	279	.57	.49	.03

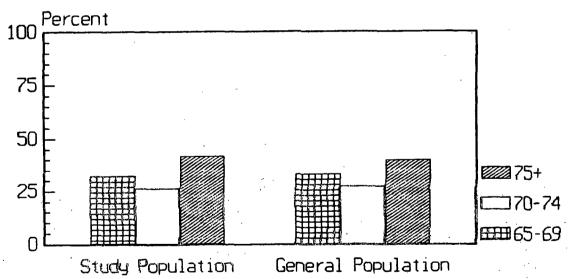
F Ratio 11.27

F Prob .001

FIGURES

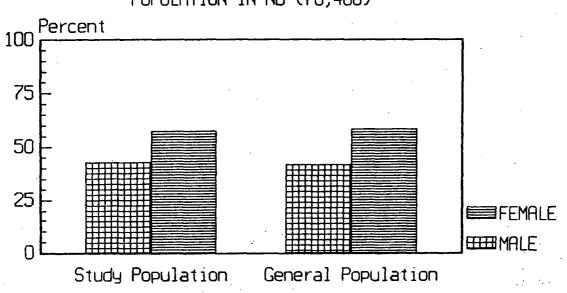
Figure 1

AGE DISTRIBUTION OF STUDY POPULATION (N=3,000) EQUATED WITH THE TOTAL 65+ POPULATION IN NB (70,460)



65+ Population

GENDER DISTRIBUTION OF STUDY
POPULATION (N=3,000) EQUATED WITH TOTAL
POPULATION IN NB (70,460)



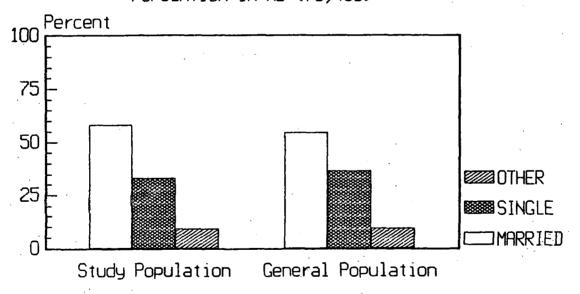
65+ Population

Figure 3

MARITAL STATUS OF STUDY

POPULATION (N=3,000) EQUATED WITH TOTAL

POPULATION IN NB (70,460)



65+ Population

Figure 4

GENDER DISTRIBUTION OF STUDY SAMPLE (N=285)

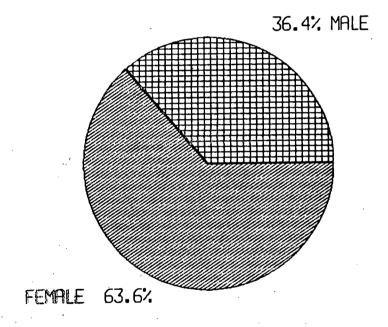


Figure 5
PROPORTION OF STUDY SAMPLE BY MARITAL STATUS (N=285)

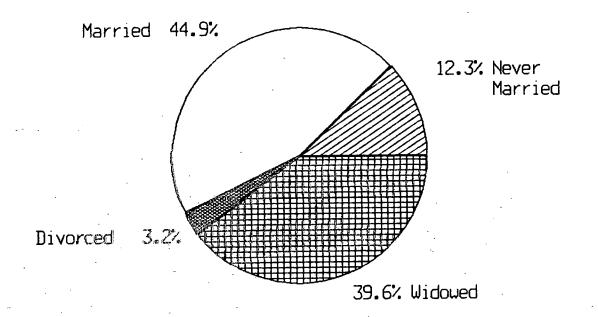


Figure 6

INCOME DISTRIBUTION OF STUDY SAMPLE (N=285)

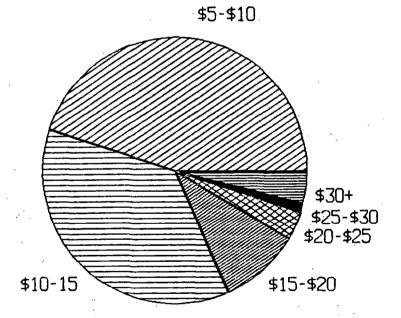


Figure 7

HOUSING ARRANGEMENT OF STUDY SAMPLE (N=285)

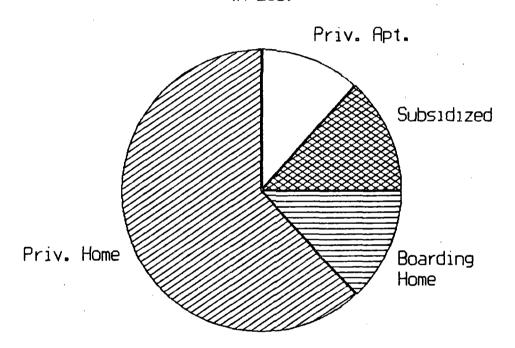


Figure 8

PERCENTAGE DISTRIBUTION OF ELDERS' HOUSING ARRANGEMENTS IN NEED OF REPAIR (N=230)

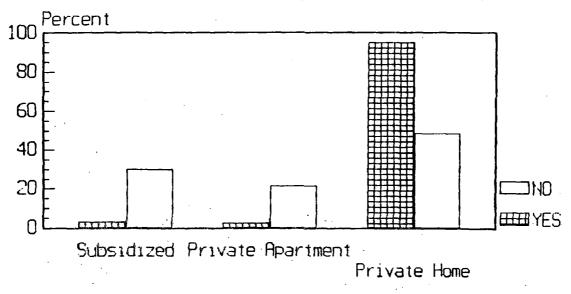
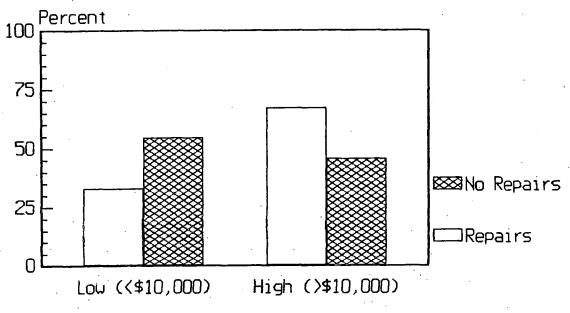


Figure 9
PERCENTAGE DISTRIBUTION OF ELDERS'

PERCENTAGE DISTRIBUTION OF ELDERS' HOUSING CONDITION BY INCOME (N=259)



Income

Figure 10

PERCENTAGE DISTRIBUTION OF ELDERS'
HOUSING ARRANGEMENT BY KIND OF HELP
NEEDED (N=210)

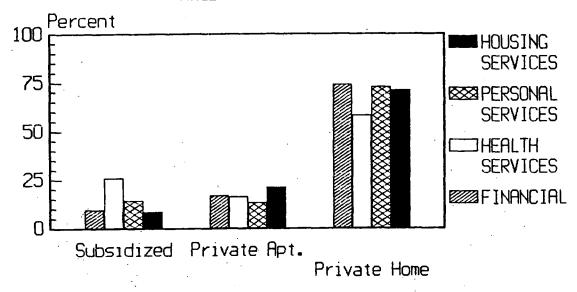


Figure 11

LIVING ARRANGEMENT OF STUDY SAMPLE (N=285)

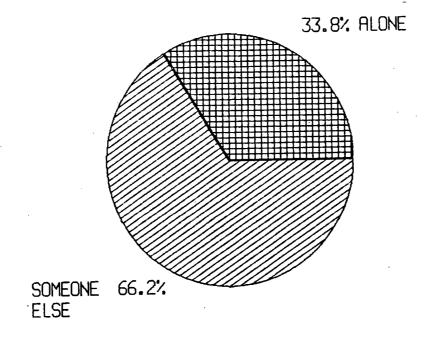


Figure 12

DISTRIBUTION OF ELDERS' HOUSING
ARRANGEMENT BY HOUSEHOLD COMPOSITION
(N=285)

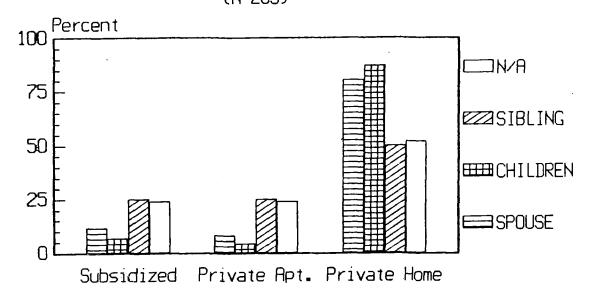
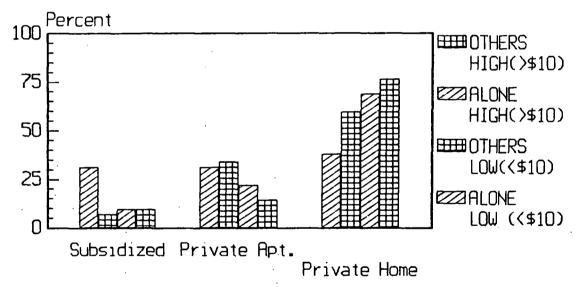


Figure 13

DISTRIBUTION OF ELDERS' HOUSING ARRANGEMENT BY LIVING ARRANGEMENT CONTROLLING FOR INCOME (N=279)



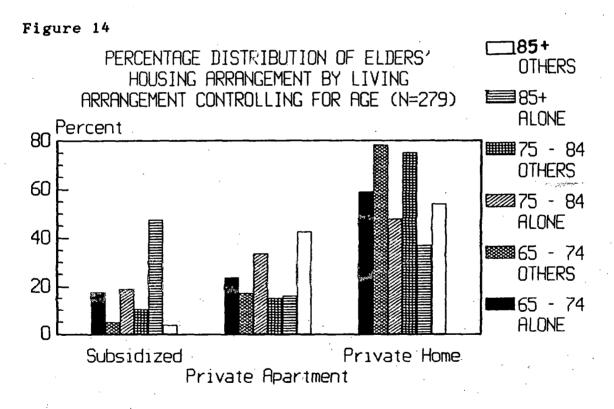
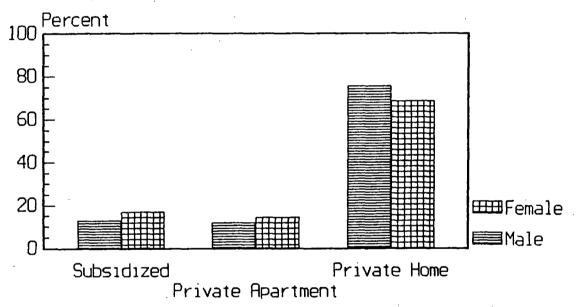


Figure 15

PERCENTAGE DISTRIBUTION OF ELDERS'
HOUSING ARRANGEMENT BY GENDER (N=247)



PERCENTAGE DISTRIBUTION OF ELDERS'
HOUSING ARRANGEMENT BY MARITAL STATUS
(N=247)

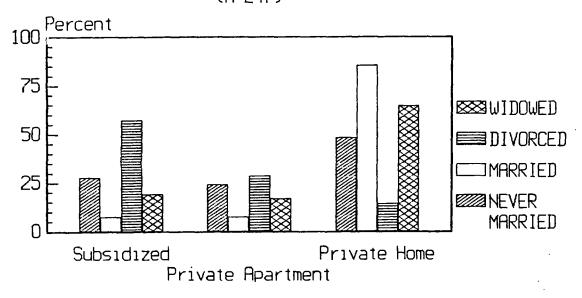
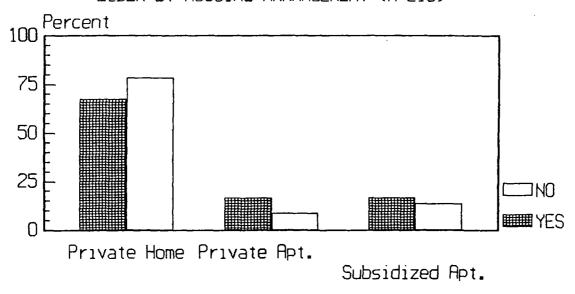


Figure 17

PERCENTAGE DISTRIBUTION OF CAREGIVERS
CONSIDERING NURSING HOME PLACEMENT FOR
ELDER BY HOUSING ARRANGEMENT (N=213)



<u>APPENDICES</u>

CAREGIVER SURVEY INSTRUMENT (Designed for Telephone Application)

	ELDER'S IDENTIFICATION NO.
2.	CAREGIVER IDENTIFICATION NO.
3.	INTERVIEWER IDENTIFICATION NO.
4.	DATE OF INTERVIEW
	D D M M Y Y
5.	LENGTH OF INTERVIEW
	1. less than one hour
	2. one hour
	3. more than one hour
6.	WHO PROVIDED THE INFORMATION
	(1) caregiver (2) proxy
	coduce yourself to the respondent. Select the proper form of the respondent list.
Hell	o, my name is I was referred to you by
(eld	ler's name and address)
(eld I an	der's name and address) a interested in taking a few minutes to talk to you about the
(eld I am	der's name and address) a interested in taking a few minutes to talk to you about the
(eld I am	der's name and address) a interested in taking a few minutes to talk to you about the a you provide (name of elder)
(eld I am care convectors)	der's name and address) in interested in taking a few minutes to talk to you about the e you provide (name of elder) renient time to be calling and if necessary arrange for a more
(eld I am care convectors)	der's name and address) in interested in taking a few minutes to talk to you about the eyou provide (name of elder) renient time to be calling and if necessary arrange for a more renient time for call back. Design the interview explain that you first wish to obtain sor to commutation about the caregivers relationship to the elder and

8.	W:.th	whom doeslive?	
	(1)	alone	
	(2)	with spouse	
		with son	
	, ,	with daughter	
		with peers	
	•	•	
		with grandchild	
	-	not applicable	
	(8)	with brother	
	• •	no answer	
	(10)	with sister	
	(11)	other	
9.	What	is living arrangement?	
		private home apartment	
	(3)	publicly subsidized housing	
	(4)	room in your house	
	(5)	separate quarters attached to your house	
	(6)	boarding or rooming house	
		group living arrangement	
	(8)	other	
		no answer	
10.	How	long does it take you to travel to	home:
	(1)	within walking distance	•
	(2)	less than 1 hour	
	. (3)	more than 1 hour	
	(4)	a days journey	
	(5)	more than a days journey	
	(7) (9)	not applicable no answer	
11.		frequently do you see in	person?
		daily	
		more than once a week	
	(3)	weekly	•
	(4)	few times a month once a month or less	
	(5)	once a month or less	
•		not applicable	
	(9)	no answer	
12.	How	many times per week do you telephone	?
	(1)	daily	
	(2)	<u> </u>	
	(3)	weekly	
	(4)	few times a month	<u> </u>
	(5)	once a month or less	
	(7)	not applicable	
	/01	no anguay	

13.	Now I would like to learn more about the kin provide Following is a list which you might provide help. Please indicaprovide help for each of the following.	d of help you of areas in te if you
	1 = yes 2 = no	
	(1) walking	
	(2) transferring	
	(3) dressing	
•	(4) feeding/eating	
	(5) washing	
	(6) toiletting	
	(7) continence	
	(8) telephoning	
	(9) shopping	
	(10) transportation	
	(11) medicating	
	(12) money management	
	(13) meal preparation	
	(14) laundry	
	(15) housework	
	(16) friendly visiting	
14.	Please indicate the total number of hours pe you provide. Record actual number of hours.	er week of care
	I am interested in knowing how this help is	shared.
15.	Of all people among family, neighbours, how many would be able to assist Record the actual number.	friends and
16.	Of all the people who could assistactually do provide care? Record actual num	how many

17. Of the people who do assist how are they related to

			. ,	•
	(1)	danahan	[1
	•	daughter		
	(2)	daughter-in-law		
	(3)	son		
	(4)	son-in-law		
	(5)	spouse		
	(6)	neighbour		
•	(7)	friend		
	(8)	other relative		
18.	To w fami	hat extent is the care of	urs? - shared an	nong
	(1)			
	(2)	some extent		
	(7)	great extent not applicable		
	(9)	no answer		
19.	Of t	the people who assist	how many know	each
	(1)			
		more than one half	. —	1
		don't know not applicable		
	(9)			
20.	from	confident do you feel in being n other relatives or friends in d you say that you feel:	able to get assistar caring for this pers	nce son?
	(1)	not at all confident somewhat confident		
	(2) (3)	very confident		i
	(7)	not applicable	1 1	
	(8) (9)	don't know no answer		
21.	In t	erms of the help which <u>you</u> prov think you are:	ide this older perso	n, do
	(1)	not doing enough	•	•
	(2) (3)	doing enough doing too much		
	(8)	don't know	L	
	(9)	no answer	•	

22.	Have with	you found other obl	l that you igations	r helping or areas	activities h of your life	ave interf such as:	ered
	1 = 3	yes	2 = no				
	(1)	employmen	nt			. [
	(2)	relations	hip with	spouse			
	(3)	raising c	hildren				
	(4)	leisure a	ctivitie				
	(5)	health			•		
	(6)	other					
23.	conf Woul	ident do y	ou feel : that you	in your ab: feel not a	eased in the llity to meet at all confid	those nee	eds?
	(3) (8)	not at all somewhat very confident known to answer	confident fident ow		•		
24.	cont	much would inue provi	i you be wilding care	willing to e for	sacrifice in	order to ? Would y	ou be
	(2) (3) (4) (5) (8)	any size moderate limited sminimal sno sacrif don't kno no answer	sacrifice sacrifice sacrifice fice ow	9			
25.	help whic woul	. If you h of these	were to de reasons imposed imp	decide not would be t	not continuin to continue the most impo Third most im	providing rtant? Wh	help, ich
	(1)	interfere spouse or	ence with childres	relations	nip with		
	(2)	interfere	ence with	employment	E		<u>:</u>
	(3)	interfere	ence with	personal l	nealth/fatigu	ie 🔃	
	(4)	financia	burden	,			
	(5)	interfere	ence with	leisure/s	ocial activit	ies	

I would now like to ask you some questions about your relationship with this older person.

26.	How w	would you I you say	describ	e yo	our relat relations	ionship	with him	/her?
	(5) (8)	very close close slightly strained very strained don't kno no answe	distant ained ow	: but	t not str	rained		
27.	over	interest time. C tionship	ompared	ethe to s	er this a several y	relations years ago	hip has , would	changed you say th
	(1)	much bet	ter					
		better						
		no chang	e					
-		worse	aa -					
	(2)	much wor don't kn	୦ଳ ନଳ					
		no answe						
28.	Does help	you prov		do a	anything	for you	in retur	n for the
	(1)	уes		(2)	no			
29.	How	would you ived from	describ	e th	ne propo	tion of	help giv	en and
	rece	TAGG ILOM				toura you	say che	
	(1) (2)	receives equal am	ount	_				
		provides		an r	receives			
	(4)	don't kn provides	ow No bolz					
	(7)	not appl	icable	,				
	(9)	no answe	r		•		,	
		like to g services				about th	e use of	any
30.	To w	hat exten assistanc	t does _ e? Reco	ord a	actual nu	use c	ommunity hours.	services
•								

(9)

no answer

30.	might	t be helpful to you caring for me which one would be the most helpful.	Please
	(5) (6) (7) (8)	more help from family/friends more community services for elder more community services for respondent payment for help given deductions on income tax for care given low interest loans for expenses related to c other (specify don't know no answer	are)
37.		you considered nursing home placement for you	ur
	(1)	yes	
	(2)	no	
	(7)	not applicable don't know	1 1
•		no answer or why not?	•
38.	What	is the date of your birth?	
		рр м м	Y Y
39.	What	is your marital status?	
	(1)	never married	
		married widowed	
	(3)	widowed	
	(4)	separated	1 1
	(9)	divorced no answer	
	,		
40.	What	is your employment situation?	
	(1)	full time	
	(2)	part time	
	(3) (9)	not employed no answer	
	(-,		
41.	What	is your family's annual income?	
	(1)	under \$5,000	
	(2)	\$5,000 - and under \$10,000 \$10,000 - and under \$15,000	. •
	(3) (4)	\$15,000 - and under \$15,000 \$15,000 - and under \$20,000	
	(5)	\$20,000 - and under \$25,000	1 1
	(6)	\$25,000 - and under \$30,000	
	(7)	\$30,000 - and under \$35,000	
	(8)	\$35,000 +	
	(9)	no answer	

42.	What is your spouse's employment situation?	
	(1) full time	
	(2) part time	
	(3) unemployed	1 1
	(7) not applicable	
	(9) no answer	
43.	How far did you go in school?	
	(1) none	
	(2) less than high school	
	(3) high school	
	(4) technical training	1 1
	(5) university degree	لـــا
	(5) university degree (6) graduate degree	
	(9) no answer	•
44.	How far did your spouse go in school?	
	(1) none	
	(2) less than high school(3) high school	
	(3) high school	
	(4) technical training	
	(5) university degree(6) graduate degree	. —
	(6) graduate degree	
	(9) no answer	
45.	Are there other children or adults who are deper	ndent on vou
	for help?	nacire on you
	(1)	
	(1) yes (2) no	
	•	
46.	How many children or adults are dependent on you	for helm?
40.	now many children of addits are dependent on you	r for nerb:
	(1) # of children	
	/2\ # of adulta	
	(2) # of adults	لـــا
4.5		! -
47.	How would you rate your health at the present to	ime:
	(1) excellent	
	(2) good	
	(3) fair	
	(4) poor	L-J.
	(9) no answer	
48.	Compared to others your age, would you say your	health is:
	(1) better	
•	(2) the same	
	(3) worse	
	(9) no answer	
In c	conclusion I would like you to identify ways in w	hich you
	nk that and other elders can cont	
	· —	inde to best
main	ntain their independence.	

49.	needs more help than he/she presently receives?							
·	(1) yes (2) no (3) don't know (9) no answer							
50.	Explain the kind of help needs to to remain independent.	continue						
	(1) financial(2) health services(3) personal social services(4) housing services(5) informal care							
	NOTE: See coding guide for instructions.							
51.	There are different opinions as to who has the responsibility to provide home care for older peop become frail and unable to care for themselves, the elder him/herself, his/her family, community, or t government. I am interested in knowing who you the responsibility to provide home care to the fra	at is the he ink has						
	 (1) family (2) state (3) their own (4) community (5) church 							
	NOTE: See coding guide for instructions.							
	CRVIEWER: Thank the respondent for his/her assistan cord time)	ce.						

That concludes the interview. I have enjoyed talking with you and would like to thank you for taking time to participate in the study. Without your cooperation and assistance, it would not be possible.

APPENDIX B

ELDERS SURVEY INSTRUMENT

	· ¿
1.	ELDER IDENTIFICATION NO.
2.	CAREGIVER IDENTIFICATION NO.
3.	INTERVIEWER IDENTIFICATION NO.
4.	DATE OF INTERVIEW
5.	LENGTH OF INTERVIEW
	1. less than one hour
-	2. one hour
-	3. more than one hour
6.	NO. OF CALLS TO OBTAIN INTERVIEW (talk to someone)
	1 2 3 4
7.	NO. OF CALLS TO COMPLETE INTERVIEW
	1 2 3 4
8.	WHO PROVIDED THE INFORMATION
	(1) elder (2) proxy
9.	HOUSING ARRANGEMENTS
	1. publicly subsidized housing
	2. private apartment
	3. private home
	4. room in house of relative
	5. separate quarters attached to house of relative
	6. boarding or rooming house
	7. group living arrangement
	8. other
	9. missing
10.	LOCATION OF HOUSING
	1. Urban
*	2. Rural
11.	IN WHICH HEALTH DISTRICT DOES THE ELDER LIVE

12.	GENDER					
	1.	Male				\Box
	2.	Female				
13.	LANGUAGE	USED FOR	INTERVIEW			•
	1. Engl	ish				
	2. Fren	ch				لــا
		Introduce				Select
Hell	o-(Mr./Mr	s.)				Му
name	18	ople about		. I an	interested	l in
heal	th. You	are one of	many peop	le whom w	e are inter	viewing
list	of peopl	e aged 65 a	and over 1	iving in	the city.	I want
your	name wil	l not be us	sed anywhe	re. We a	re interest	ed in
way gene	ral patte an indivi	rns among t dual behave	the senior	population	on and not	in the
I am	going to	want to to things you	alk to you do togeth	about your	u, your far health and	aily and how you
mana	ge. Some	of the que	stions ma	y not see	m to apply	to you.
of c	ircumstan	ces. If the	nere are a	ny questi	ons you wou	ıld
real	er not an ly apprec	swer, pleas iate your l	se do not	IGGT ODIT	gated to do) 50. W
and	t I have neighbors in your	some quest: you feel o	lons about close to a	your fam nd the par	ily and the rt you feel	friend
14.	Do you 1	ive alone o	or are you	living w	ith someone	else?
	(1) alo	ne				
	(2) som	eone else				
	(9) no	answer		•		

15.	Who do you live with?		
	(1) spouse	•	
	(2) children		
	(3) sister or brother		
	(4) parents	•	
	(5) paid helper		
	(6) other relatives		
	(7) friends	•	
	(8) not applicable		
	(9) no answer		
16.	Now for each of the areas tell me who provides this friend(s), community agenc combination of assistance provides most of the help	help: family memb y. If you receive in one area, tell	er(s),
	BASIC		
	1 = family 2 = friend 5 = no help	3 = neighbor 4 =	agency
	(1) walking		
	(2) transferring		
	(3) dressing		
	(4) feeding/eating		
	(5) toiletting		
	(6) continence		
	INSTRUMENTAL		ų,
	1 = family 2 = friend 5 = no help	3 = neighbor 4 =	agency
	(1) telephoning		
	(2) shopping		
	(3) transportation		
-	(4) medicating		
	(5) money management		
	(6) meal preparation		
	(7) laundry		
	(8) housework		

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		(1) friendly visiting	
		(2) home health visiting	
	17.	Please indicate the total number of hours per week care you receive from family, friends and neighbor Record actual number of hours.	in .
			J
	18.	Please indicate the total number of hours per week care you receive from community agencies. Record number of hours.	
- · · · · · · · · · · · · · · · · · · ·			
	19.	I will read a list of community services. Please me if you receive service from one or more of them	tell
		1 = use 2 = do not use 3 = not aware of	
		(1) meals on wheels	
•		(2) homemaker services	
		(3) adult day care services	
•		(4) friendly visiting	
		(5) home nursing services	
		(6) income assistance	
	r	(7) transportation services	
		(8) mental health services	
		(9) seniors services	
		(10) extra mural hospital services	
		(11) visits from church members/priest/minister	

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	20.	Of the sources listed below, who was mainly responsible for helping you obtain community services?
		(1) myself
		(2) family
		(3) friends
		(4) doctor
		(5) church
		(6) other
		(7) not applicable
:		(8) don't know
<u>-</u>		(9) no answer
	21.	Which of the following best describes the way community services has affected the help received from family, friends and neighbors.
		(1) no change
,		(2) they help me less
		(3) they help me more
		(4) they provide care of a different kind
—		(7) not applicable
	•	(9) no answer
	22.	Have you considered applying for any type community services?
· ·	٠.	(1) yes
· ·		(2) no
((3) don't know ·
		(7) not applicable
		(9) no answer

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23.	desc	use indicate which of the following reasons best cribe why you have not applied for community vices.	:
	(1)	too costly	
	(2)	not available	
	(3)	my family looks after me	·
	(4)	do not qualify	
	(5)	too complicated, too much red tape	
	(6)	other	Ĭ
	(7)	not applicable	
	(9)	no answer	
24.		family, friends and neighbors who assist you, kn another?	10 W
	(1)	they all know one another	
	(2)	more than one half know one another	لــا
	(3)	less than one half know one another	
	(7)	not applicable	
	(9)	no answer	
25.	have	while speaking, about how many people in total do a contact with or feel close to you could call we neel in an emergency.	you pon
	(1)	Number	
·· 26.		nking now of the main such person who you could in an emergency, what is this person's relation	
	(1)	spouse	
	(2)	son	
	(3)	daughter	•
	(4)	daughter-in-law	
	(5)	brother	•
	(6)	sister	
	(7)	not applicable	
	(8)	friend	
	(9)	no answer	
	(10)	neighbor	
-	(11)	other	

27.	What	is this person's	
	(1)	Name:	
	(2)	Address:	
			Γ
	(3)	Phone Number:	
28.	How?	close or far away does live from live from	
	(1)	within walking distance	
	(2)	not within walking distance but the same area	
	(3)	less than a day's journey	
	(4)	a day's journey	
	(5)	more than a day's journey	
	(7)	not applicable	
	(9)	no answer	
29.	How pers	frequently do you see (name of care person) in	_
	(1)	daily	
	(2)	more than once a week	
	(3)	weekly	
	(4)	few times a month	
	(5)	once a month	
	(7)	not applicable	
	(9)	no answer	
30.	How the	many times do you talk to or telephone? (name of care person)	n.
	(1)	daily	
	(2)	more than once a week	
	(3)	weekly	
	(4)	few times a month	
	• •		
	(5)	once a month or less	•
	(5) (7)	once a month or less not applicable	•

		31.	do you usually have to ask for help or is the help offered?
			(1) ask for help
•			(2) help offered
		•	(3) equal amounts of each
	•		(4) don't know
			(7) not applicable
			(9) no answer
f •		32.	Are you able to do things for this person in return for the help you receive?
			(1) yes
			(2) no
!			(7) not applicable
ļ\.	•		(9) no answer
		33.	How would you describe the proportion of help given and received from this person: would you say that you receive more than you provide, that it is an equal amount, or that you provide more than you receive?
			(1) receive more than provide
1			(2) equal amounts of care
			(3) provide more than receive
ı			(4) don't know
ĺ			(7) not applicable
1			(9) no answer
1		34.	In terms of the help which provides, do you think they are not doing enough, doing enough or doing too much?
			(1) not doing enough
.			(2) doing enough .
			(3) doing too much
t .			(4) don't know
			(7) not applicable
LJ .	•		(9) no answer
16			

35.	from	positive/sure do you reel in being able to ge this person? Would you say that you feel:	r uerb
	(1)	not at all sure	
	(2)	somewhat sure	LJ
	(3)	very sure	
٠	(4)	don't know	
	(7)	not applicable	
36.	How	would you describe your relationship with	?
	(1)	very close	
	(2)	close	
	(3)	slightly distant but not strained	
·	(4)	strained	
	(5)	don't know	
	(9)	no answer	
37.	over	ould like to know if this relationship has chartime. Compared to several years ago, would relationship to is: (caretakers name)	nged you say
	(1)	much better	
	(2)	better	
	(3)	no change	
	(4)	Worse	
	(5)	much worse	
	(6)	don't know	
	(7)	not applicable	
	(9)	no answer	
38.	How mont	many of your children or relatives do you see	·
	(1)	more than five	
	(2)	four or five	
	(3)	two or three	
	(4)	one	
	(5)	none	

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39.		you have an important decision to make, do you have one you can talk to about it?
	(1)	all the time
	(2)	most of the time
	(3)	sometimes
	(4)	never
40.	When do t	people you know have an important decision to make, hey talk to you about it?
	(1)	all the time
	(2)	most of the time
	(3)	sometimes -
	(4)	never
41.	Do y	ou help anybody with things like shopping, filling forms or doing repairs?
	(1)	all the time
	(2)	most of the time
	(3)	sometimes
	(4)	never
42.	regu	anybody rely on you to do something for them larly; for example, cooking dinner, cleaning the e, bringing in the mail?
	(1)	yes
	(2)	no
43.	How	many of your friends do you see monthly?
	(1)	more than five
	(2)	four or five
	(3)	two to three
	(4)	one .
	(5)	none
	(0)	no sharran

I woul	ld like to know a little	about your general health	•
	How would you rate your o	overall health at the prese	ent
((1) excellent		
((2) good		
((3) fair		
((4) poor		
((9) no answer		
	Do you feel your health in the sealth of other people you	is better or worse than the our age?	B
((1) better		
((2) about the same		
((3) worse		
46. W	What health problem (if a	any) bothers you the most?	
MEMORY	Y AND ORIENTATION		
not ma questi them f normal such i	any of them. We are inte ions because doctors and for assessing their patic l older persons respond t	ch relate to memory. There erested in asking you these other clinicians frequent ents. Yet we do not know to these questions. Withous as yourself, clinician nose with problems.	ly use now nt
47. W	What day of the week is i	lt?	
((1) correct answer	(3) question not answered	
((2) incorrect answer	(4) question not asked	
48. W	What is the date today?		
((1) correct answer	(3) question not answered	
. ((2) incorrect answer	(4) question not asked	
40 **	Who is the Prime Minister	of Canada?	
		c of Canadar (3) question not answered	, \Box
((1) correct answer	(3) dasserous not auswered	
	(2) incorrect answer	(4) question not asked	

50.	Who	was the	former I	rime	Minia	ster of C	anada?		
	(1)	correc	t answer		(3)	question	not a	nswered	
	(2)	incorr	ect answe	er	(4)	question	not a	sked	
51.	Subt from	ract th each n	ree from umber, al	twent	ty and	i keep su down.	btract	ing thr	ee
	(1)	correc	t answer		(3)	question	not a	nswered	· 🔲
	(2)	incorr	ect answe	er	(4)	question	not a	sked	. —
52.	Brie aske		lain why	any o	of the	e above q	uestio	ns were	not
		-							
<u>acti</u>	<u>VITI</u> E	S OF DA	ILX LIVI)	<u>{G</u>					
		e a few y routi	question ne	ns abo	out th	ne kind o	f help	you ne	ed in
61.	Tran	sfer:	Getting o	out of	f bed	chairs,	etc.		
•	1.	Do you	get out	of be	ed?				
		(1) y	es	(2)	no			•	
	2.	Do you kind o	move in f assista	or ou	at of	bed and	chairs	withou	t any
		(1) y	es	(2)	no				
	3.	Do you object bed?	use a wa as a sur (But not	lker, port suppo	to ge	e, furnituet into or other	ure or r out (s.)	any ot of chai	her rs or
		(1) y	es	(2)	no			[
	4.	Does s	omeone gi chairs a	ive you	ou sup	pport in (getting ing or	g into carryi	or ng.)
	•	(1) y	es	(2)	no			, [
	5.	Are yo	u lifted	from	one l	place to	anothe	r?	
		(1) y	es	(2)	no			Į	
INST	RUCTI	ON: As	sistance ype of me	inclu	ides d	either he	lp of Probi	another	be

INSTRUCTION: Assistance includes either help of another person or some type of mechanical support. Probing may be necessary. For example, "Do you use a chair or some other piece of furniture to help you get out of bed?" Does someone generally give you a hand when you get up out of a chair?"

62.	Batn	ing:
	1.	Do you bathe without any assistance? (It could be a tub bath, sponge bath or a shower.)
		(1) yes (2) no (3) does not bathe
	2.	Except for help in washing one part of your body (e.g. back of legs, back, etc.) do you bathe yourself?
		(1) yes
		(2) no - implies more than minimal bathing assistance
to/f of b then	rom to athing that	ON: If someone must assist the elder with getting the place of bathing or with securing the equipment of (e.g. drawing a bath, bringing the basin, etc.), elder receives assistance in bathing and question red "no".
63.	Dres	sing:
	1.	Do you get dressed or do you stay in bed clothes or a housecoat most of the time?
		(1) fully dressed
		(2) partially dressed
	•	(3) stays in bedclothes
	2.	Do you dress yourself without anyone's help?
		(1) yes (2) no
	3.	Do you dress yourself but need some limited help, for example, help with zippers, fasteners, or tying shoes?
		(1) yes (2) no
	4.	Do you need help putting on most clothing items?
•		(1) yes (2) no
such if t (e.g nigh bedc	as point and particular in the	ON: Bedclothes is defined to be sleeping attire bajamas or nightgown. As elder is partially dressed set they wear is bedclothes plus some other clothes jamas top with slacks, a robe or housecoat over a l, etc.) Fully dressed is a situation where is are totally replaced with other clothes such as a mirt (blouse) and slacks, etc.
64.	Eati	ng and Feeding:
	1.	Are you partially or completely fed using tubes or intravenous fluids?
		(1) yes (2) no
	2.	Do you feed yourself without any help (either by person or special equipment)
		(1) yes (2) no
		· · · · · · · · · · · · · · · · · · ·

	3.	Do you feed yourself except for getting help in cutting meat or buttering bread?						
		(1)	yes	(2)	no - help more than minimal			
	4.	Does	someone e	lse f	eed you?			
		(1)	yes	(2)	no			
thin "yes meat that	k of answer	the l wer m utter elder	ast phrase eans that ing bread	as b the e is di	orks better if interviewer eing placed in parenthese lder feeds him/herself. (sregarded. A "no" answer extensive help than mere	s. A Cutting means		
65.	Toil	eting	:					
	1.	(roc	m) (e.g.	getti	u when you go to the toil ng to/from toilet room, or lothes, cleaning up)?	et n/off		
		(1)	yes	(2)	no			
	2.	Do y	ou use a b	edpan	or commode?			
		(1)	no	(2)	only at night			
		(3)	more than	nigh	t use			
	3.	Does	anyone he	lp yo	u with your bedpan or com	mode?		
		(1)	yes	(2)	no			
INST	RUCTI	on:	Help with	bedpa	n, etc. include urinal.			
66.	Inco	ntine	ence:					
	1.	Do y	ou have an	y dif	ficulty in controlling you	ar		
		(1)	complete	self	control			
		(2)	occasiona	l acc	idents			
		(3)	frequent	accid	ents			
		(4)	catheter					
	,2.	Do y	ou have di	fficu	lty controlling your bowel	ls?		
		(1)	complete	self	control			
		(2)	occasiona	l acc	idents			
		(3)	frequent	accid	ents			
		(4)	colostomy	(ile	ostomy)			
TNCT	RIICTT	ON:	Ouestions	1 and	2: Incontinence, Both	of		

INSTRUCTION: Questions 1 and 2: Incontinence. Both of these questions generally require probing for proper classification of the elder.

00.	MOIV	ing.		
	1.	Do you ever go outdoors for a wa city block?	alk of more t	han one
		(1) yes (2) no		
	2.	Do you walk by yourself? (Probe you while you walk? Do you use support?)	e: Does anyo anything for	one help
		(1) yes (2) no		
	Reco	ord 1 = yes 2 = no for the fol	llowing.	
			2(a) OUTDOOR	2 (b) INDOOI
	(1)	Walks without help from another person or any mechanical device.		
	(2)	Walks with help of mechanical supports (No personal help).		
	(3)	Walks with the assistance of another person (No mechanical help).		
	(4)	Walks with the help of both mechanical and personal assistance.		
	(5)	Does not walk (Possibly carried)		
	(6)	Does not walk (Is bed bound).		
supp whee	ort i	ON: The response codes that spean include wheelchairs. For example, or bound but gets around without to given a response code "2".	a person wh	o is
NOTE mech		omeone who is wheelchair bound is al support categories)	included in	the
<u>ins</u> Ţ	RUMEN	TAL ACTIVITIES OF DAILY LIVING		
acti	vitie pende	so require from time to time assis. Such help allows them to content. Following are some areas when some help.	inue to rema	in
69.	Shop	oping:		
	1.	Do you go shopping for groceries	?	
		(1) yes (2) no		
	2.	Do you do all of your shopping whelp?	ithout anyon	e's
		(1) yes (2) no		

	3.	Do you do most of your shopping without anyone's help?
		(1) yes (2) no
	4.	Do you shop for small purchases without anyone's help?
		(1) yes (2) no
	5.	Does someone have to accompany you on all your shopping trips?
		(1) yes (2) no
shop does groo tran Disr occa	ping all eries sport egard siona	ON: Question 2: All Shopping. All of your without anyone's help means that the elder generally types of grocery shopping (big/small orders of etc.) without anyone's help. Include any ation help the elder gets to/from the store. such "help" as another person picking up an incidental item (a carton of milk, newspaper, se that person was going to (by) the store anyway.
70.	Meal	3 :
	1.	Where do you generally eat most of your meals?
		(1) home (2) meal site
		(3) institution (4) restaurant
		(5) other
	2.	How often do you eat meals away from your home?
		(1) always (2) usually
•		(3) sometimes (4) rarely or never
	3.	Do you occasionally prepare full meals without anyone's help?
		(1) yes (2) no
	4.	Do you occasionally prepare such a meal if someone else supplies the ingredients?
		(1) yes (2) no
	5.	Do you prepare any partial meals or heat and serve prepared meals, (e.g. "TV" dinners)?
		(1) yes (2) no
INST	RUCTI	N: Question 3: Full Meal. Heating up a TV dinner

is not preparing a full meal.

/1.	Laui	ary:	
	you you	ou have a washer/dryer in your home or nearby that can use for laundry?	
	1.	(1) in client's home	7
		(2) within client's apt. bldg.]
		(3) laundromat nearby	r 7
		(4) none	J
	2.	Do you do any of your own laundry?	
		(1) yes (2) no]
	3.	Do you take care of all your laundry without anyone's help?	_
		(1) yes (2) no]
	4.	Do you take care of most of your laundry without anyone's help?	
•		(1) yes (2) no	brack
	5.	Do you launder small items like socks, underwear, etc.?	_
		(1) yes (2) no	7
usei	ful fovered	ION: Question 2: Probing has been found to be or this question. Some elders have initially "no" to this question but later indicate that they some small items like socks and underwear.	,
72.	Hous	sework:	
	1.	Do you do any housework	_
		(1) yes (2) no	
•	2.	Do you generally maintain your own house without any help including heavy cleaning like scrubbing floors and washing windows?	
		(1) yes (2) no	
	_	·	
	3.	Do you do all of your light housework, like bedmaking, dishwashing, dusting, etc., but need help with heavy work?	
	3.	bedmaking, dishwashing, dusting, etc., but need]
	4.	bedmaking, dishwashing, dusting, etc., but need help with heavy work?]
		bedmaking, dishwashing, dusting, etc., but need help with heavy work? (1) yes (2) no Do you do some of your light housework tasks, but]
		bedmaking, dishwashing, dusting, etc., but need help with heavy work? (1) yes (2) no Do you do some of your light housework tasks, but need occasional help?]

73.	Tele	phonin	g:				
	1.	Do yo	u use the	tele	phone	?	
		(1)	yes	(2)	no		
•	2.	Do yo	u have ac	cess	to a	telephone?	
		(1)	yes	(2)	no		
	3.	When	you use t	he te	lepho	ne, do you	
	•		Look up a helping y		al nu	mbers without someo	ne
		•	(1) yes		(2)	no	لـــا
		(b)	Dial some	numb	ers f	rom memory?	
			(1) yes		(2)	no	
		(c)	Dial.the	opera	tor?	•	
			(1) yes		(2)	no	
		(g)	Answer th	e tel	ephon	e?	
			(1) yes		(2)	no	
		(e)	Use the tassistance		one o	nly with extensive	
٠			(1) yes		(2)	no	
form	mal te	lephon	e book to mber from	answ	er th list	elder need not refe is question affirma of numbers and dial	tively. ing that
			help meet	00	CIIC	eria of this questi	
	erw	thout	help meet gement:		CIIC	eria or this questi	
numb	erw	thout y Mana	gement:			eria or this questi l any of your own m	
numb	er wi	thout y Mana Do yo	gement:			en e	
numb	er wi	ey Mana Do yo (1) Have	gement: ou handle yes you had a a bounced	and c (2) ny pr	ontro no oblem	en e	oney?
numb	Mone	ey Mana Do yo (1) Have like	gement: ou handle yes you had a a bounced	and c (2) ny pr	ontro no oblem k or	l any of your own m	oney?
numb	Mone	Do yo (1) Have like time?	ou handle yes you had a a bounced yes	and c (2) ny pr chec	ontro no oblem k or	l any of your own m	oney? Inths, bill on
numb	Mone 1.	Do yo (1) Have like time? (1)	yes you had a a bounced yes u handle	and c (2) ny pr chec	ontro no oblem k or no	l any of your own m in the last six mon a failure to pay a b	oney? Inths, bill on
numb	Mone 1.	Do you (1) Have like time? (1) Do you payme (1) Do yo	yes yu handle yes you had a a bounced yes yu handle nts? yes u take ca balancing	and c (2) ny pr chec (2) all o (2) re of	ontro no oblem k or no f you	l any of your own m in the last six mon a failure to pay a b	oney? Inths, bill on Ill Ith control on the cont
numb	Mone 1. 2.	Do you (1) Have like time? (1) Do you payme (1) Do you with	yes you handle you had a a bounced yes yu handle nts? yes u take ca balancing	and c (2) ny pr chec (2) all o (2) re of	ontro no oblem k or no f you no day-	l any of your own m in the last six mon a failure to pay a l r own banking and be	oney? Inths, bill on Ill Ith control on the cont

INSTRUCTION: Question 3: If the elder says yes to this question, generally interviewers should probe to make sure that the client does not get help balancing the checkbook, which some clients may not include in a definition of banking. If they get help with the checkbook, then the

answer is no and question 4 must be answered yes. Similarly help with transportation getting to/from the bank, etc. is considered help with money management.

75.	Tran	portation:	
i	1.	Do you sometimes travel to places beyond mere walking distance?	
		(1) yes (2) no	
	2.	Do you drive a car?	
		(1) yes (2) no	
	2a.	Do you own a car?	
		(1) yes (2) no	
	3.	Oo you use public transportation, (including curbside senior vans)?	
		(1) yes (2) no	
	3a.	Then you use public transportation do you nee assistance?	ed
		(1) always (2) sometimes (3) never	
	4.	oo you travel in a car or taxi (including doo loor senior vans)?	r-to-
		(1) yes (2) no	
	4a.	Oo you need someone to assist you when travel in a car or taxi?	ling
		(1) always (2) sometimes (3) never	
76.	Medi	ation:	
	1.	Does someone else take total care of preparingiving you your medicine?	g and
		(1) yes (2) no	
	2.	oo you take your medicine without any help or without being reminded to take them?	
		(1) yes (2) no	
	3.	Ooes someone else remind you to take your medication?	
		(1) yes (2) no	
	4.	oes someone else prepare your medicine in add in separate dosages?	vance
		(1) yes (2) no	

١.	"Wha	t is your telephone	numbe	r?"				
	(1)	correct inswer	(3)					
	(2)	incorrect answer	(4)	question not asked				
TE	:	If elder does not a following question.		telephone ask the				
	"Wha	t is your street add	lress?					
	(1)	correct answer	(3)	question not answered				
	(2)	incorrect answer	(4)	question not asked				
· .	"Wha	t is your full name?	H					
	(1)	correct answer	(3)	question not answered				
	(2)	incorrect answer	(4)	question not asked				
	"Wha	t is the name of thi	s pla	ce?"				
	(1)	correct answer	(3)	question not answered				
	(2)	incorrect answer	(4)	question not asked				
•	"How old are you?"							
	(1)	correct answer	(3)	question not answered				
	(2)	incorrect answer	(4)	question not asked				
	"Whe	n were you born?"						
	(1)	correct answer	(3)	question not answered				
	(2)	incorrect answer	(4)	question not asked				
•	"Wha	t is your mother's m	aiden	name?"				
	(1)	correct answer	(3)	question not answered				
	(2)	incorrect answer	(4)	question not asked				
•	Brie:		of th	e above questions were not				

	iee.	l at differ	ent times.		
	1 =	agree	2 = disagree	3 = not	sure
	1.		t as happy as s younger."		
	2.	"These ar	e the best years		
	3.	"My life than it i	could be happier s now."		
•	4.	"This is time of m	the dreariest y life."		
	5.		the things I do g or monotonous."		-[
	6.		to other people n in the dumps		
	7.	"The thing interesting they ever	gs I do are as ng to me as were."		
	8.	things I	ade plans for will be doing a a year from now."		
	9.		to other people make a good e."		
	10.	"As I grow seem betto they would	w older, things er than I thought i be."		
	11.	"I expect and pleas happen to future."	some interesting ant things to me in the		
	12.	"I feel of somewhat			
	13.	"As I look life, I am satisfied.	t back on my n fairly well ,*		
	14.	"I would r past life could."	not change my even if I		
	15.	"I have go much what of life."	otten pretty I expected out	•	
	16.	my life, 1	nink back over did not get ne important vanted."		

77. Here is a list that describes some of the ways people

	sa sa	In spite of what pay, the lot of the verage person is goorse, not better."		
	t) me	I have gotten more he breaks in life o ost of the people on now."	than	
	19. C	omments on regardi	ng Life Satisfaction.	
	_			
	Finally, I'd	i like to know a 1	ittle more about you.	
	78. Date of	f birth.		
		D	D M M Y Y	
•		s the language you understand?	first learned in chil	dhood and
•	(1) E	nglish	(3) other	
	(2) F	rench	(9) no answer	<u> </u>
	80. What is	s your marital sta	tus?	
٠.	(1) no	ever married	(4) widowed	
	(2) m	arried	(5) other	
	(3) đ:	ivorced/separated	(9) no answer	
·		ng have you been wo	idowed?	
	82. Educat:	ion: How far did	you go in school?	
	(1) no	o formal education		
	(2) gi	rade school		
	(3) so	ome high school		
	(4) Co	ompleted high school	01	•
		igh school and some		
	(6) h	igh school and tech	hnical or vocational to	raining
· •.	(7) u	niversity degree		
	(8) pd	ost university tra	ining	

83.		you had a change in your permanent residence within ast year?
	(1)	no: how long has client lived at current address? Years?
	(2)	yes: voluntary move: months ago?
	(3)	yes: forced move: months ago?
	(9)	no answer
84.	What	is your primary (largest) source of income?
	(1)	Old Age Security (O.A.S.)
	(2)	Old Age Security and Government Supplement (O.A.S., G.I.S.)
	(3)	Old Age Security and Canada Pension
•	(4)	Old Age Security, Canada Pension, G.I.S.
	(5)	Interest earnings/dividends, RRSP's
	(6)	Private pension
	(7)	other
	(9)	no. answer
85.	What	is your family's annual income?
	(1) (2) (3) (4) (5) (6) (7) (8) (9)	under \$5,000 \$5,000 - and under \$10,000 \$10,000 - and under \$15,000 \$15,000 - and under \$20,000 \$20,000 - and under \$25,000 \$25,000 - and under \$30,000 \$30,000 - and under \$35,000 \$35,000 + no answer
In co thin indep	onclu: k you pende:	sion, I would like you to identify ways in which you and other seniors can best maintain their nce.
86.	In o	rder to remain living independent, do you think you more help than you currently receive?
	(1)	yes (3) don't know
	(2)	no (9) no answer

87.	Explain the kind of help you need to continue to be independent.						
	(3)	financial health services personal social services housing services informal care					
NOTE	2: (S	ee coding guide for instructions)					
88.	resp beco him/ gove	e are different opinions as to who has the onsibility to provide care for older people me less able to care for themselves, i.e. therself, his/her family, community or the rnment. I am interested in knowing who you responsibility to provide home care to the rrs.	ne elder feel has				
	(3)	family responsibility state responsibility their own responsibility community resposibility church responsibility					
NOTE	E: (S	ee coding guide for instructions)					
89.	Hous	ing					
	1 =	yes 2 = no					
	(1)	Did your home need any repairs in the last six months?					
	(2)	Did you (help) make any of those repairs?					
	(3)	Are you able to make some minor home repairs if they are needed?					

INTERVIEWER: Thank respondent for his/her assistance. (Record time)

That concludes the interview. I have enjoyed talking with you and would like to thank you for taking time to participate in the study. Without your cooperation and assistance, it would not be possible.